

FACTORY DIRECT LIGHTING

Tel:
Fax:

Report No.: 20170711002

Test Time: 2017-07-12 19:49

Luminaire Property

Luminaire Manufacturer: FACTORY DIRECT LIGHTING

Luminaire Category: LED

Luminaire Description: FDVT-40LED5K-120MD

Lamp Catalog: 2835/AC1100S40D

Lamp Description: 2835/5000K

Luminous Length (mm): 1290

Luminous Width (mm): 100

Luminous Height (mm): 100

Voltage: 119.4 V

Current: 0.331 A

Power: 39.51 W

Power Factor: 0.998

Photometric Results

CIE Class: Semi-Direct

Measurement Flux: 4729.3 lm

Downward Ratio: 90%

Field Angle: H158.4 V232.9

Luminaire Efficacy Rating (LER): 120

Max. Intensity: 1308.34 cd

Total Rated Lamp Lumens: 4729.3 lm

Efficiency: 100%

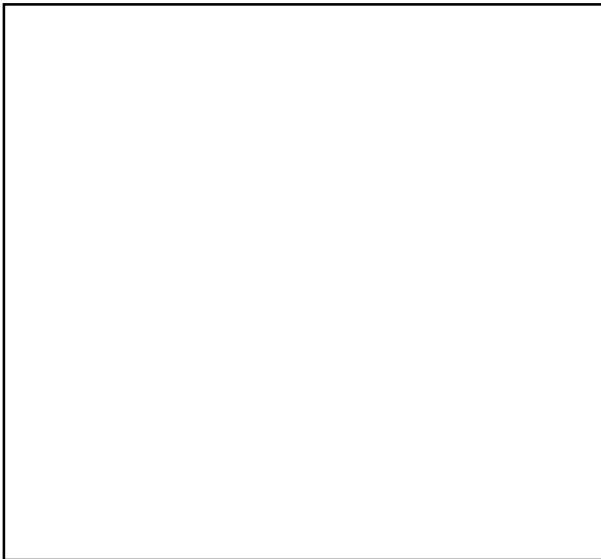
Upward Ratio: 10%

Beam Angle: H103.6 V138.0

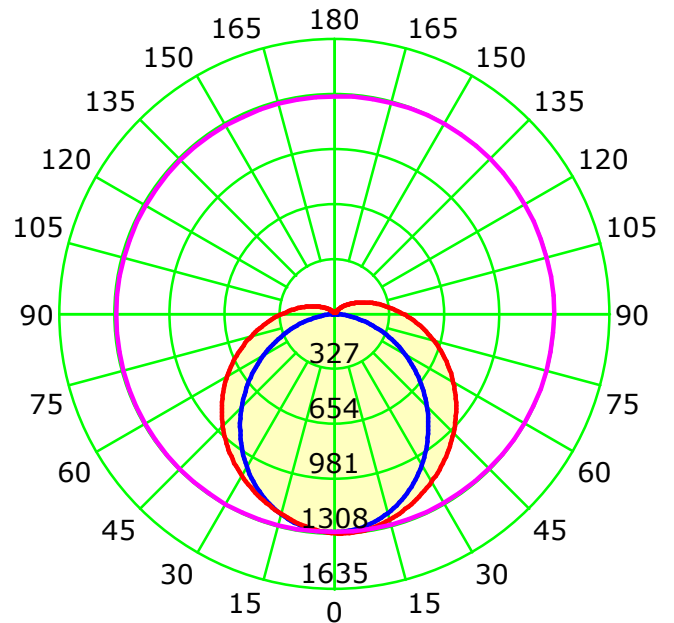
Central Intensity: 1297.02 cd

Pos of Max. Intensity: H150 V2

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

— C0-C180 — C90-C270 — G2

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator:

Gamma Plane (°):0.0-180.0:1.0

Test Device: GPM-1600L

Distance: 8.690 m

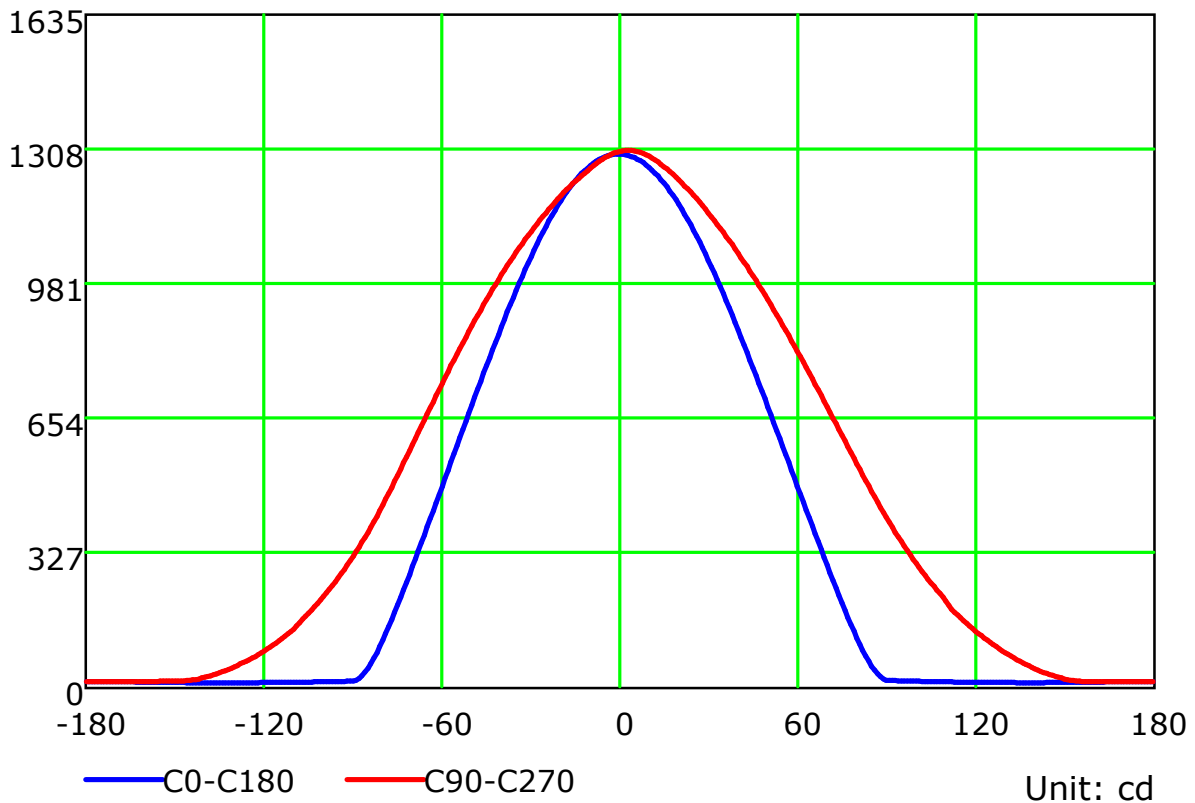
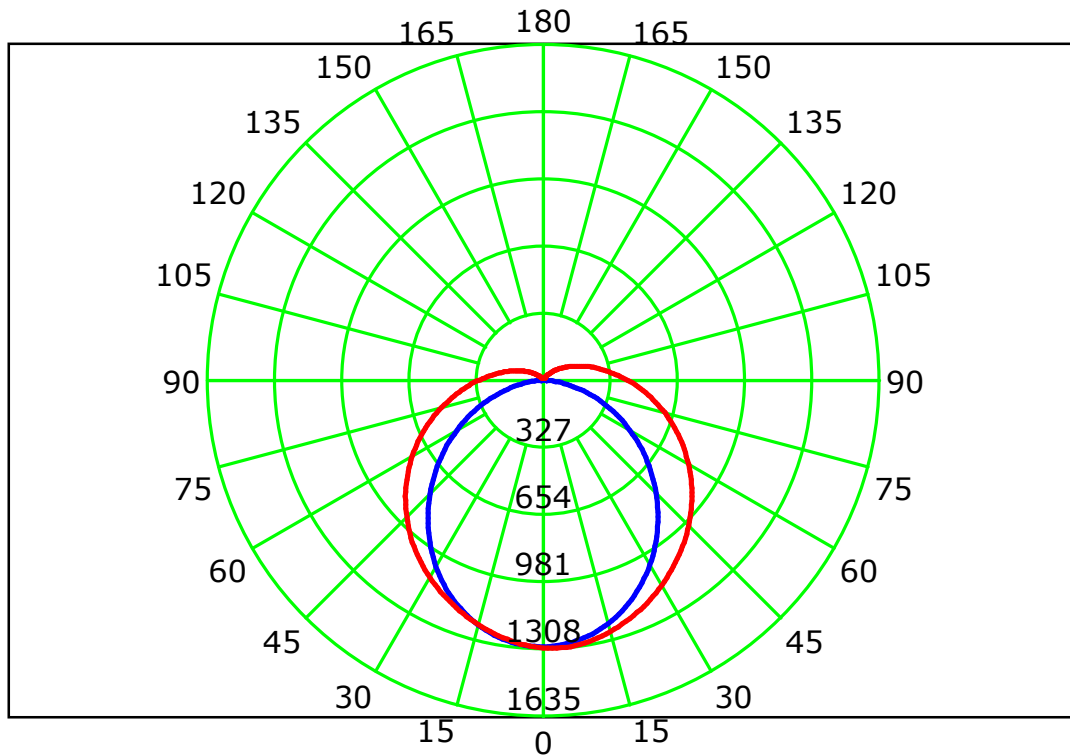
Humidity: 45-75

Inspector:

FACTORY DIRECT LIGHTING

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Luminous Intensity Distribution Curve



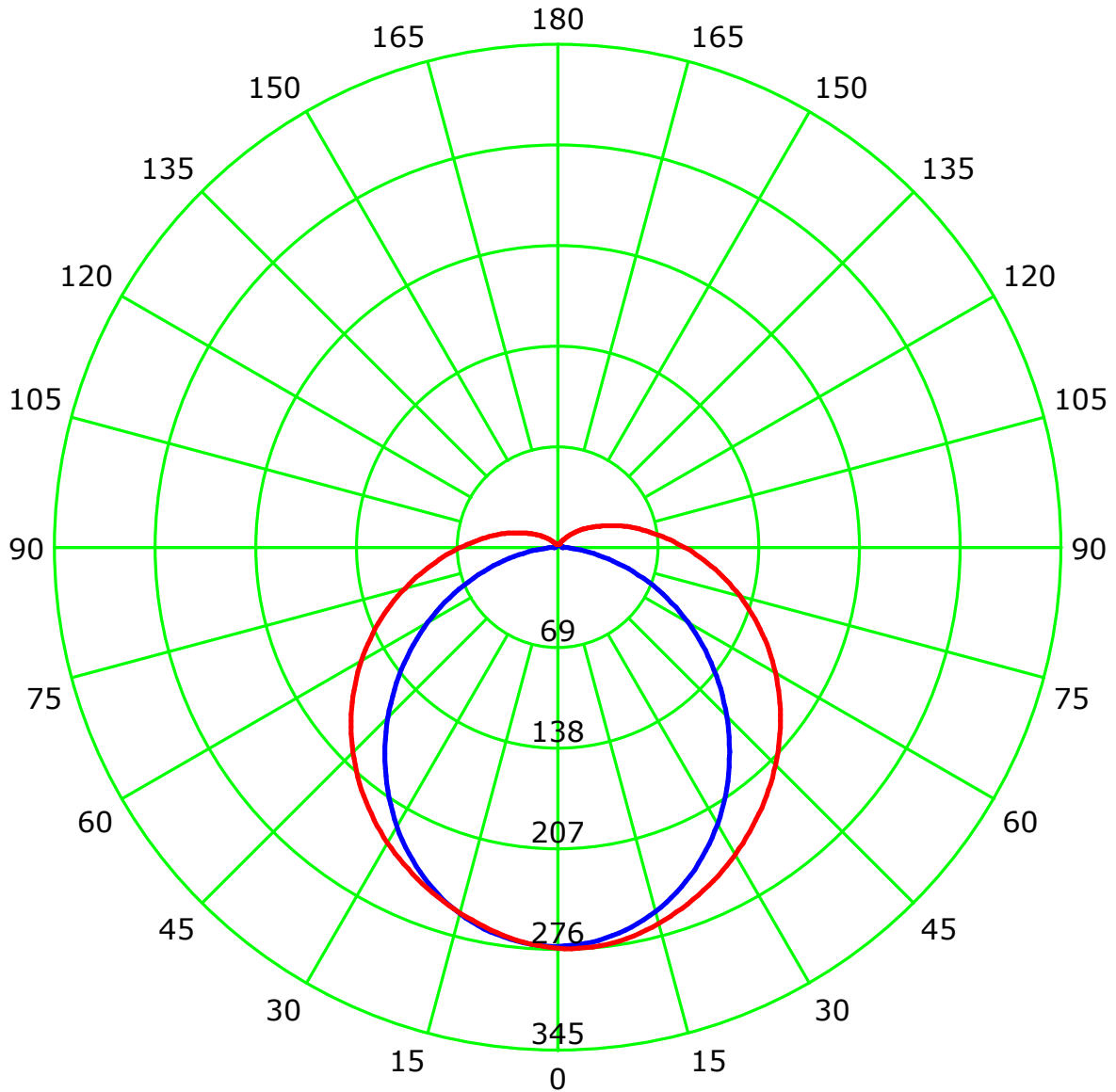
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Luminous Intensity Distribution Curve(cd/klm)



cd/klm
— C0-C180
— C90-C270

$\eta=100\%$
2835/AC1100S40D/2835/5000K

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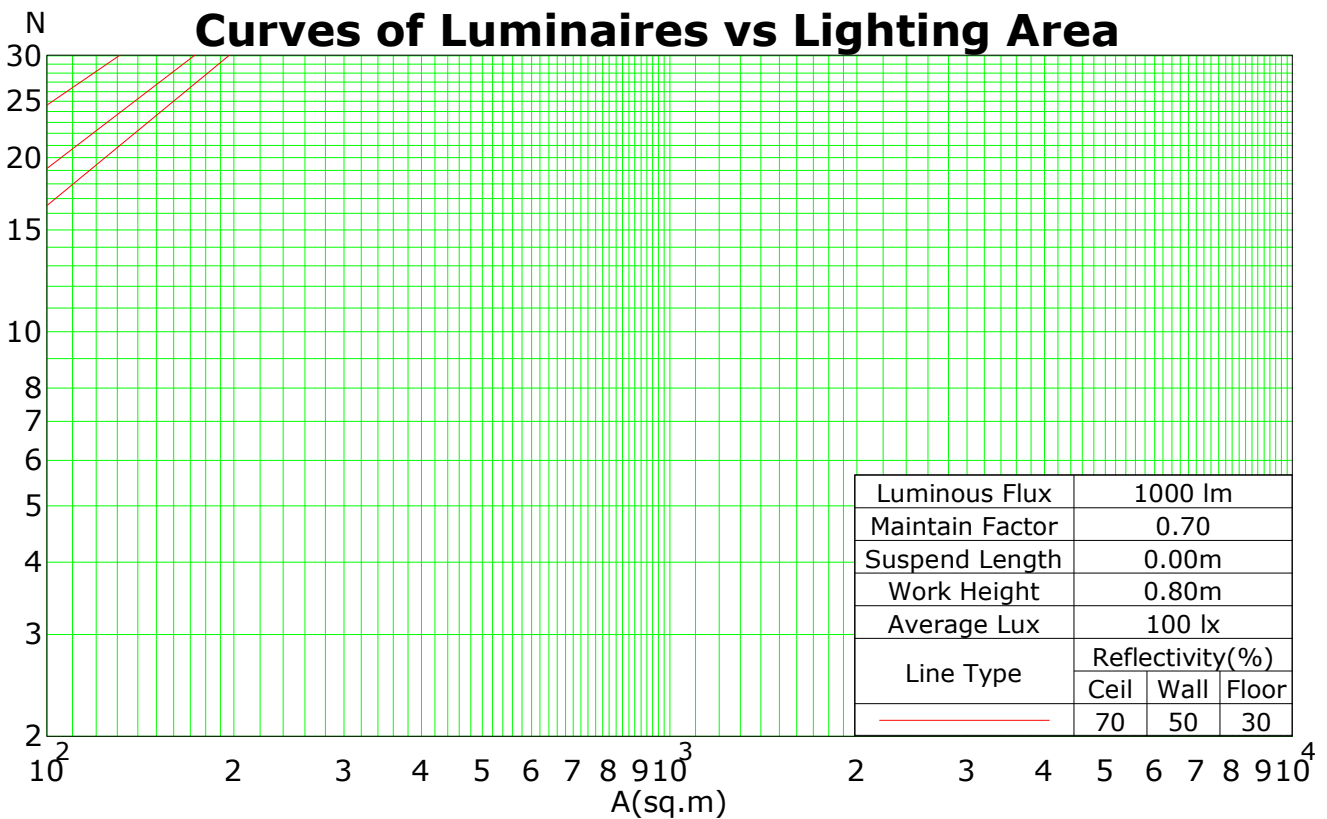
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Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	104	98	93	89	100	95	90	86	89	85	82	83	80	77	78	75	73	70
2	94	85	77	70	90	82	75	69	76	71	66	72	67	63	67	63	60	57
3	85	74	65	58	82	71	63	57	67	60	54	63	57	52	59	54	50	47
4	78	65	56	48	74	63	54	48	59	52	46	55	49	44	52	47	42	40
5	71	58	48	41	68	56	47	41	53	45	39	50	43	38	47	41	37	34
6	66	52	43	36	63	50	42	35	47	40	34	45	38	33	42	37	32	30
7	61	47	38	32	58	46	37	31	43	36	30	41	34	29	39	33	28	26
8	57	43	34	28	54	42	33	28	39	32	27	37	31	26	35	30	25	23
9	53	39	31	25	51	38	30	25	36	29	24	34	28	23	33	27	23	21
10	49	36	28	23	48	35	28	22	33	27	22	32	26	21	30	25	21	19

Spacing Criteria (0-180): 1.20
 Spacing Criteria (90-270): 1.30
 Spacing Criteria (Diagonal): 1.38



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 Test Type: TYPE C
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 Operator:

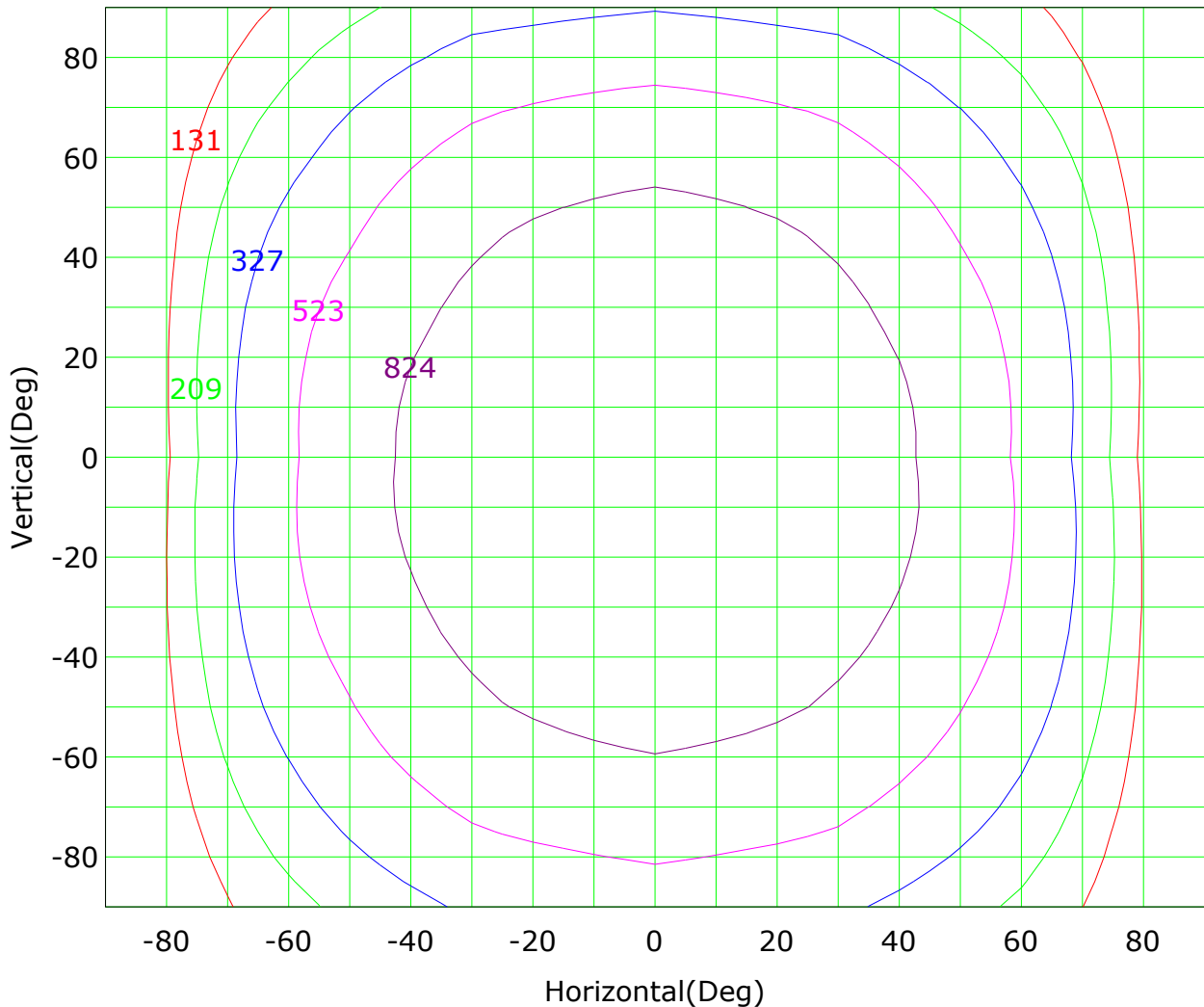
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Isocandela (rectangle)



Imax (100%): 1308 cd

(10%): 131 cd	(16%): 209 cd
(25%): 327 cd	(40%): 523 cd
(63%): 824 cd	(100%): 1308 cd

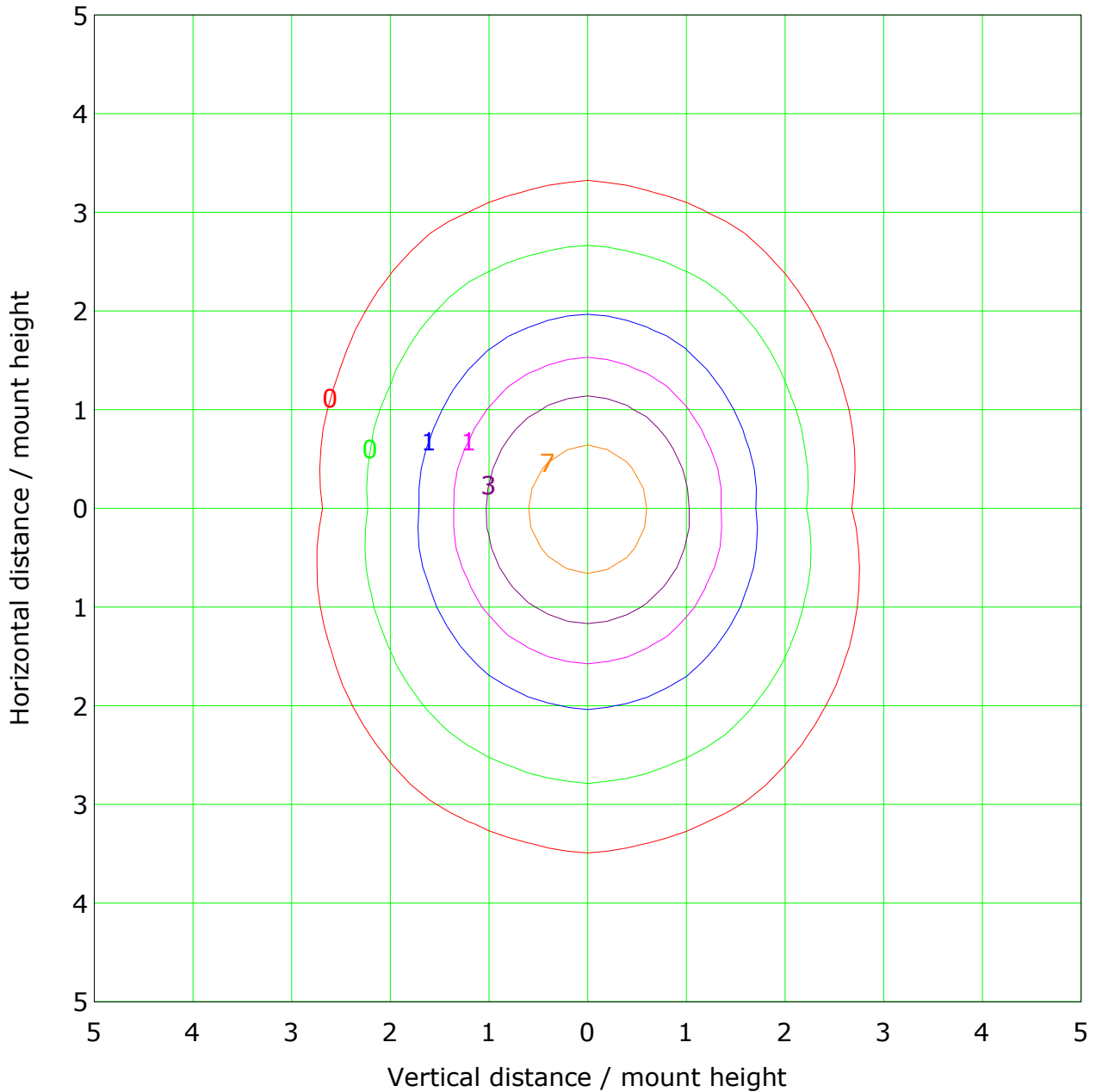
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Temperature: 25
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IsoLux Plot



Mounting Height: 10.0m		Max Lux(100%): 13.1 lx	
(1%): 0.1 lx	(2%): 0.3 lx	(5%): 0.7 lx	(10%): 1.3 lx
(20%): 2.6 lx	(50%): 6.5 lx	(100%): 13.1 lx	

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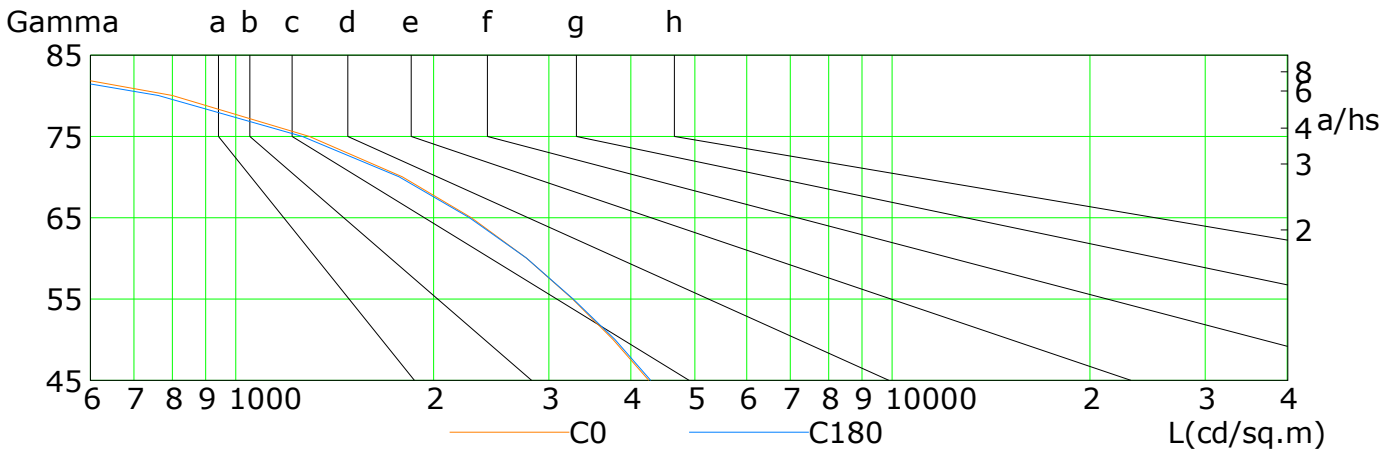
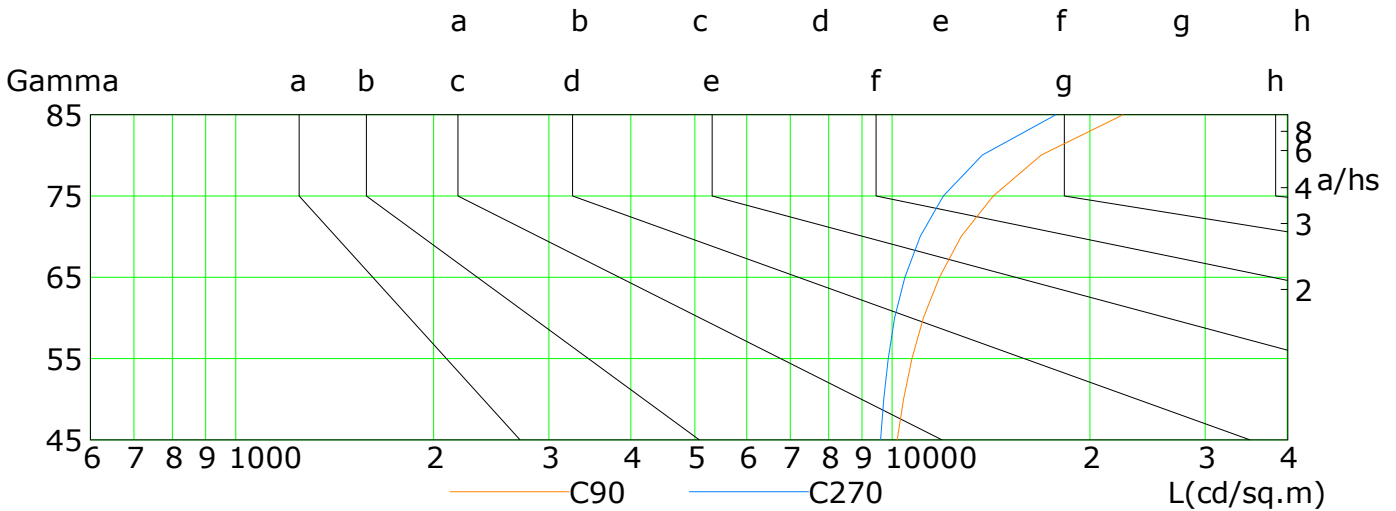
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Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		2000	1000	500	<=300				
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4259	3752	3262	2772	2287	1793	1294	800	365
C90	10184	10406	10725	11162	11804	12744	14237	16850	22465
C180	4288	3776	3268	2775	2273	1775	1264	762	333
C270	9591	9698	9856	10092	10457	11024	11963	13726	17753

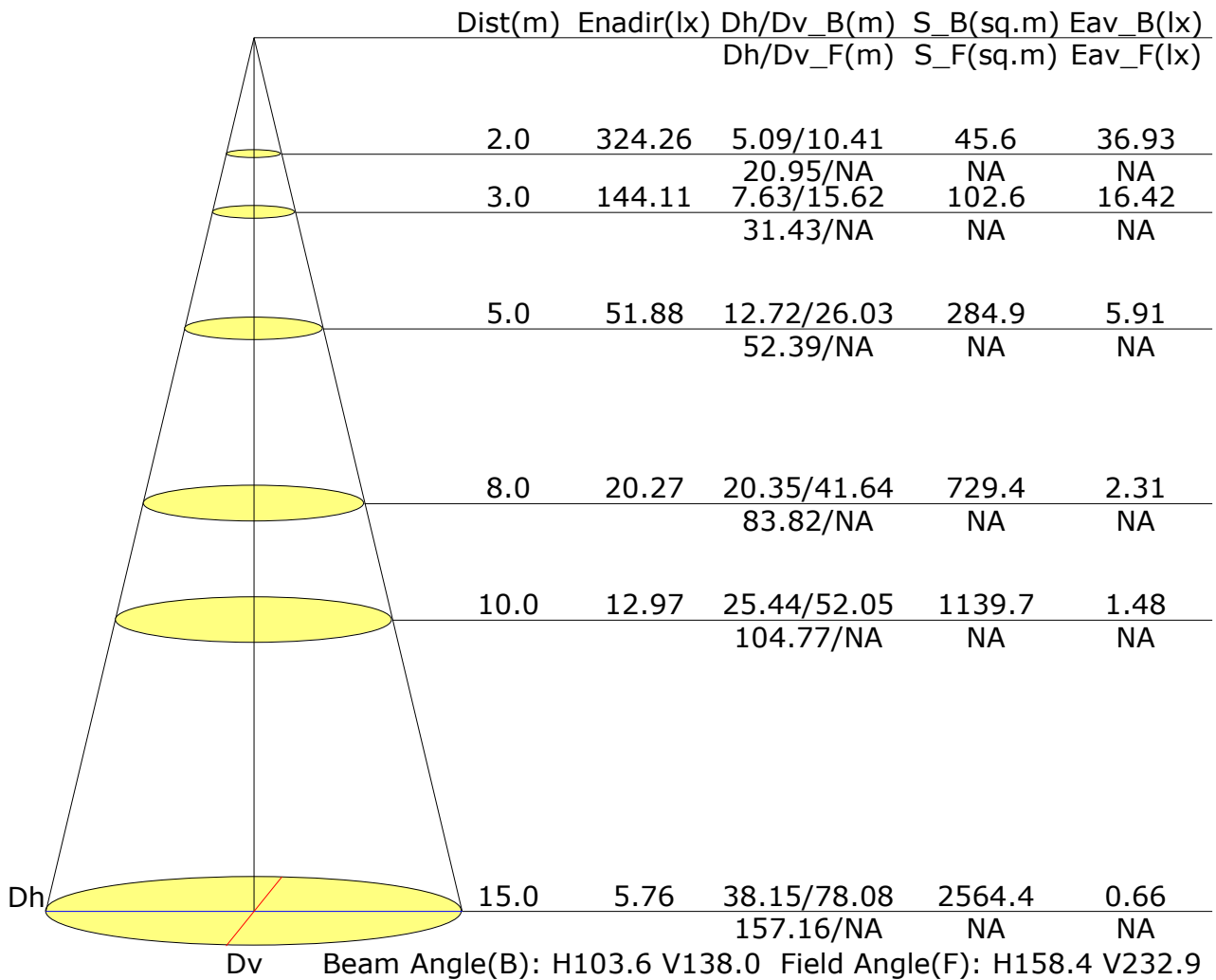
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Illuminance at a Distance



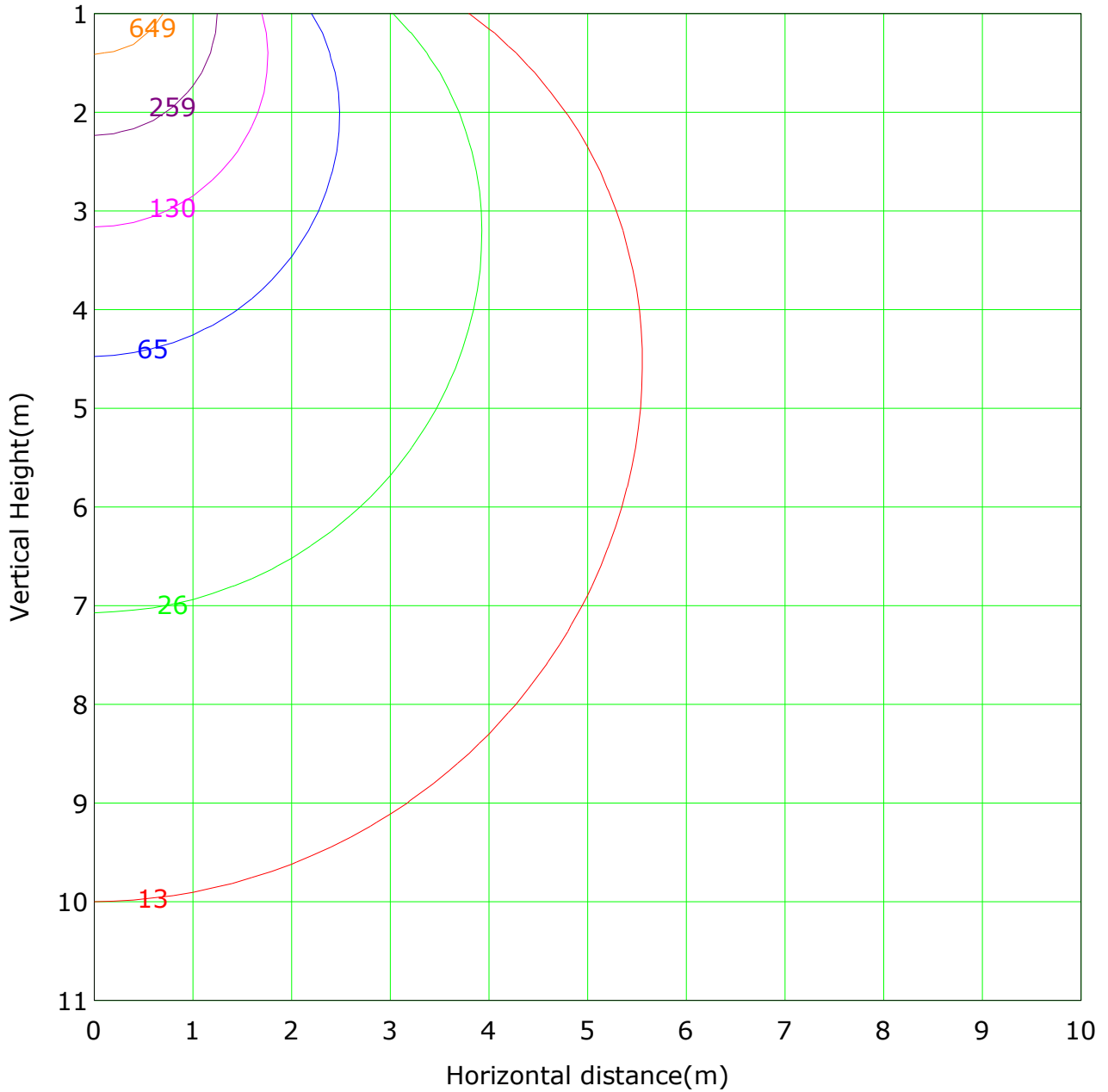
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 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
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Vertical IsoLux Plot



Lowest(m): 1.0m	Highest(m): 11.0m	Max Lux: 1297.0 lx
— (1%): 13.0 lx	— (2%): 25.9 lx	
— (5%): 64.9 lx	— (10%): 129.7 lx	
— (20%): 259.4 lx	— (50%): 648.5 lx	
— (100%):1297.0 lx		

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Test Lab:
Test Type: TYPE C
Temperature: 25
Operator:

Gamma Plane (°):0.0-180.0:1.0
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Distance: 8.690 m
Humidity: 45-75
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Area Flux Table

Unit: lm

Vertical plane		Horizontal plane																		Flux(E)																			
Flux(T)	Flux(E)	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)																	
0.1	0.7	1.8	3.4	5.3	7.4	9.2	10.4	11.2	11.2	10.4	9.2	7.4	5.3	3.3	1.8	0.7	0.1	99.0	96.3	0.1	0.7	1.8	3.4	5.3	7.4	9.2	10.4	11.2	11.2	10.4	9.2	7.4	5.3	3.3	1.8	0.7	0.1	99.0	96.3
0.1	0.9	2.3	4.4	7.0	9.9	12.4	14.1	15.3	15.3	14.1	12.4	9.8	6.9	4.3	2.3	0.9	0.1	132.6	131.0	0.1	0.9	2.3	4.4	7.0	9.9	12.4	14.1	15.3	15.3	14.1	12.4	9.8	6.9	4.3	2.3	0.9	0.1	132.6	131.0
0.2	1.0	2.9	5.5	8.9	12.5	15.9	18.2	19.8	19.8	18.2	15.9	12.4	8.7	5.4	2.8	1.0	0.2	169.3	168.2	0.2	1.0	2.9	5.5	8.9	12.5	15.9	18.2	19.8	19.8	18.2	15.9	12.4	8.7	5.4	2.8	1.0	0.2	169.3	168.2
0.2	1.2	3.5	6.7	10.7	15.1	19.3	22.3	24.1	24.1	22.3	19.3	15.0	10.6	6.5	3.4	1.2	0.2	205.6	204.8	0.2	1.2	3.5	6.7	10.7	15.1	19.3	22.3	24.1	24.1	22.3	19.3	15.0	10.6	6.5	3.4	1.2	0.2	205.6	204.8
0.2	1.4	4.0	7.8	12.4	17.6	22.4	26.0	28.1	28.1	26.0	22.4	17.4	12.2	7.6	4.0	1.4	0.2	239.4	238.7	0.2	1.4	4.0	7.8	12.4	17.6	22.4	26.0	28.1	28.1	26.0	22.4	17.4	12.2	7.6	4.0	1.4	0.2	239.4	238.7
0.2	1.6	4.5	8.8	14.0	19.7	25.2	29.4	31.7	31.7	29.4	25.1	19.6	13.8	8.7	4.5	1.6	0.2	269.3	268.7	0.2	1.6	4.5	8.8	14.0	19.7	25.2	29.4	31.7	31.7	29.4	25.1	19.6	13.8	8.7	4.5	1.6	0.2	269.3	268.7
0.2	1.7	4.9	9.6	15.3	21.5	27.5	32.1	34.6	34.6	32.1	27.4	21.4	15.2	9.5	4.9	1.7	0.2	294.3	293.7	0.2	1.7	4.9	9.6	15.3	21.5	27.5	32.1	34.6	34.6	32.1	27.4	21.4	15.2	9.5	4.9	1.7	0.2	294.3	293.7
0.2	1.7	5.1	10.2	16.4	23.1	29.3	34.2	37.0	37.0	34.2	29.2	22.9	16.2	10.1	5.1	1.7	0.2	313.8	313.4	0.2	1.7	5.1	10.2	16.4	23.1	29.3	34.2	37.0	37.0	34.2	29.2	22.9	16.2	10.1	5.1	1.7	0.2	313.8	313.4
0.2	1.7	5.1	10.4	16.9	23.9	30.6	35.7	38.6	38.6	35.7	30.4	23.8	16.7	10.3	5.2	1.7	0.2	325.8	325.3	0.2	1.7	5.1	10.4	16.9	23.9	30.6	35.7	38.6	38.6	35.7	30.4	23.8	16.7	10.3	5.2	1.7	0.2	325.8	325.3
0.2	1.7	5.2	10.5	17.0	24.2	31.0	36.3	39.2	39.2	36.3	31.0	23.9	16.9	10.4	5.2	1.7	0.2	329.3	328.8	0.2	1.7	5.2	10.5	17.0	24.2	31.0	36.3	39.2	39.2	36.3	31.0	23.9	16.9	10.4	5.2	1.7	0.2	329.3	328.8
0.2	1.8	5.3	10.5	16.9	23.8	30.4	35.4	38.1	38.0	35.1	29.9	23.4	16.6	10.3	5.2	1.8	0.2	322.8	322.4	0.2	1.8	5.3	10.5	16.9	23.8	30.4	35.4	38.1	38.0	35.1	29.9	23.4	16.6	10.3	5.2	1.8	0.2	322.8	322.4
0.2	1.8	5.2	10.1	16.2	22.7	28.8	33.5	35.9	35.8	33.2	28.3	22.2	15.8	9.9	5.1	1.8	0.2	306.5	306.1	0.2	1.8	5.2	10.1	16.2	22.7	28.8	33.5	35.9	35.8	33.2	28.3	22.2	15.8	9.9	5.1	1.8	0.2	306.5	306.1
0.2	1.7	4.9	9.5	15.0	21.1	26.6	30.9	33.1	33.0	30.6	26.2	20.6	14.6	9.2	4.8	1.7	0.2	283.9	283.4	0.2	1.7	4.9	9.5	15.0	21.1	26.6	30.9	33.1	33.0	30.6	26.2	20.6	14.6	9.2	4.8	1.7	0.2	283.9	283.4
0.2	1.6	4.5	8.6	13.6	19.1	24.1	27.8	29.9	29.8	27.5	23.8	18.6	13.2	8.3	4.3	1.5	0.2	256.7	256.2	0.2	1.6	4.5	8.6	13.6	19.1	24.1	27.8	29.9	29.8	27.5	23.8	18.6	13.2	8.3	4.3	1.5	0.2	256.7	256.2
0.2	1.4	4.0	7.6	12.0	16.8	21.2	24.3	26.3	26.2	24.1	20.9	16.4	11.7	7.3	3.8	1.4	0.2	225.9	225.3	0.2	1.4	4.0	7.6	12.0	16.8	21.2	24.3	26.3	26.2	24.1	20.9	16.4	11.7	7.3	3.8	1.4	0.2	225.9	225.3
0.2	1.2	3.4	6.5	10.3	14.3	18.1	20.6	22.3	22.3	20.5	17.8	14.1	10.0	6.3	3.3	1.2	0.2	192.5	191.7	0.2	1.2	3.4	6.5	10.3	14.3	18.1	20.6	22.3	22.3	20.5	17.8	14.1	10.0	6.3	3.3	1.2	0.2	192.5	191.7
0.2	1.1	2.9	5.4	8.5	11.8	14.8	16.8	18.2	18.1	16.7	14.6	11.6	8.2	5.2	2.7	1.0	0.2	157.8	156.7	0.2	1.1	2.9	5.4	8.5	11.8	14.8	16.8	18.2	18.1	16.7	14.6	11.6	8.2	5.2	2.7	1.0	0.2	157.8	156.7
0.1	0.9	2.3	4.3	6.7	9.3	11.5	13.0	14.1	14.1	13.0	11.4	9.2	6.5	4.1	2.2	0.9	0.1	124.0	122.3	0.1	0.9	2.3	4.3	6.7	9.3	11.5	13.0	14.1	14.1	13.0	11.4	9.2	6.5	4.1	2.2	0.9	0.1	124.0	122.3
3.2	25.0	71.8	139.8	223.2	313.9	398.3	461.0	497.5	496.8	458.9	394.9	309.7	219.1	136.8	70.5	24.9	3.3	4249		3.2	25.0	71.8	139.8	223.2	313.9	398.3	461.0	497.5	496.8	458.9	394.9	309.7	219.1	136.8	70.5	24.9	3.3	4249	
0.0	21.0	71.3	139.8	223.2	313.9	398.3	461.0	497.5	496.8	458.9	394.9	309.7	219.1	136.8	70.0	21.0	0.0		4233	0.0	21.0	71.3	139.8	223.2	313.9	398.3	461.0	497.5	496.8	458.9	394.9	309.7	219.1	136.8	70.0	21.0	0.0		4233

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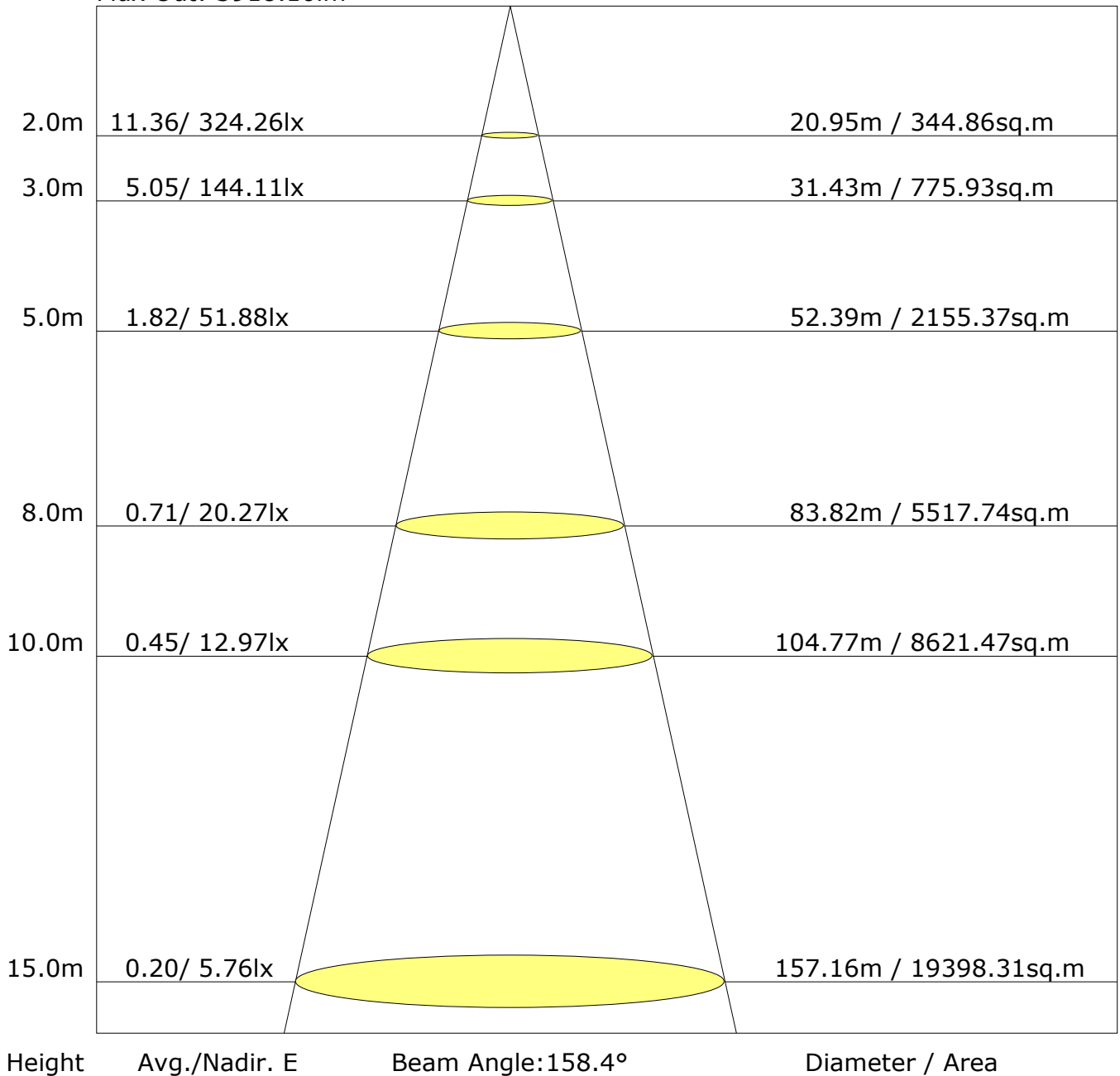
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 Humidity: 45-75
 Inspector:

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The Average Illuminance Effective Figure

Flux Out: 3918.10lm



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UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	11.0	12.5	11.5	13.0	13.6	11.8	13.3	12.3	13.8	14.3
3H	12.8	14.1	13.3	14.6	15.2	14.0	15.3	14.5	15.9	16.5
4H	13.4	14.7	13.9	15.2	15.8	15.0	16.3	15.5	16.8	17.4
6H	13.8	15.1	14.4	15.6	16.2	15.9	17.1	16.5	17.7	18.3
8H	14.0	15.1	14.5	15.7	16.3	16.3	17.5	16.9	18.1	18.7
12H	14.1	15.2	14.6	15.7	16.4	16.7	17.9	17.3	18.4	19.1
X=4H Y=2H	11.6	12.9	12.2	13.5	14.1	12.3	13.6	12.9	14.2	14.8
3H	13.6	14.7	14.1	15.3	15.9	14.8	15.9	15.4	16.5	17.1
4H	14.4	15.4	14.9	16.0	16.6	16.0	17.0	16.5	17.6	18.2
6H	15.0	15.9	15.6	16.5	17.2	17.1	18.0	17.7	18.6	19.3
8H	15.2	16.0	15.8	16.6	17.3	17.6	18.5	18.2	19.1	19.7
12H	15.3	16.1	15.9	16.7	17.4	18.1	18.9	18.7	19.5	20.2
X=8H Y=4H	14.8	15.7	15.4	16.3	17.0	16.3	17.1	16.9	17.8	18.4
6H	15.6	16.3	16.3	17.0	17.7	17.6	18.3	18.3	19.0	19.7
8H	15.9	16.6	16.6	17.2	17.9	18.3	18.9	18.9	19.6	20.3
12H	16.2	16.8	16.8	17.4	18.2	19.0	19.5	19.6	20.2	21.0
X=12H Y=4H	14.9	15.7	15.6	16.4	17.0	16.3	17.1	17.0	17.7	18.4
6H	15.8	16.5	16.5	17.1	17.8	17.7	18.4	18.4	19.0	19.7
8H	16.2	16.8	16.8	17.4	18.2	18.4	19.0	19.1	19.7	20.4

Calculate in accordance with CIE 190:2010

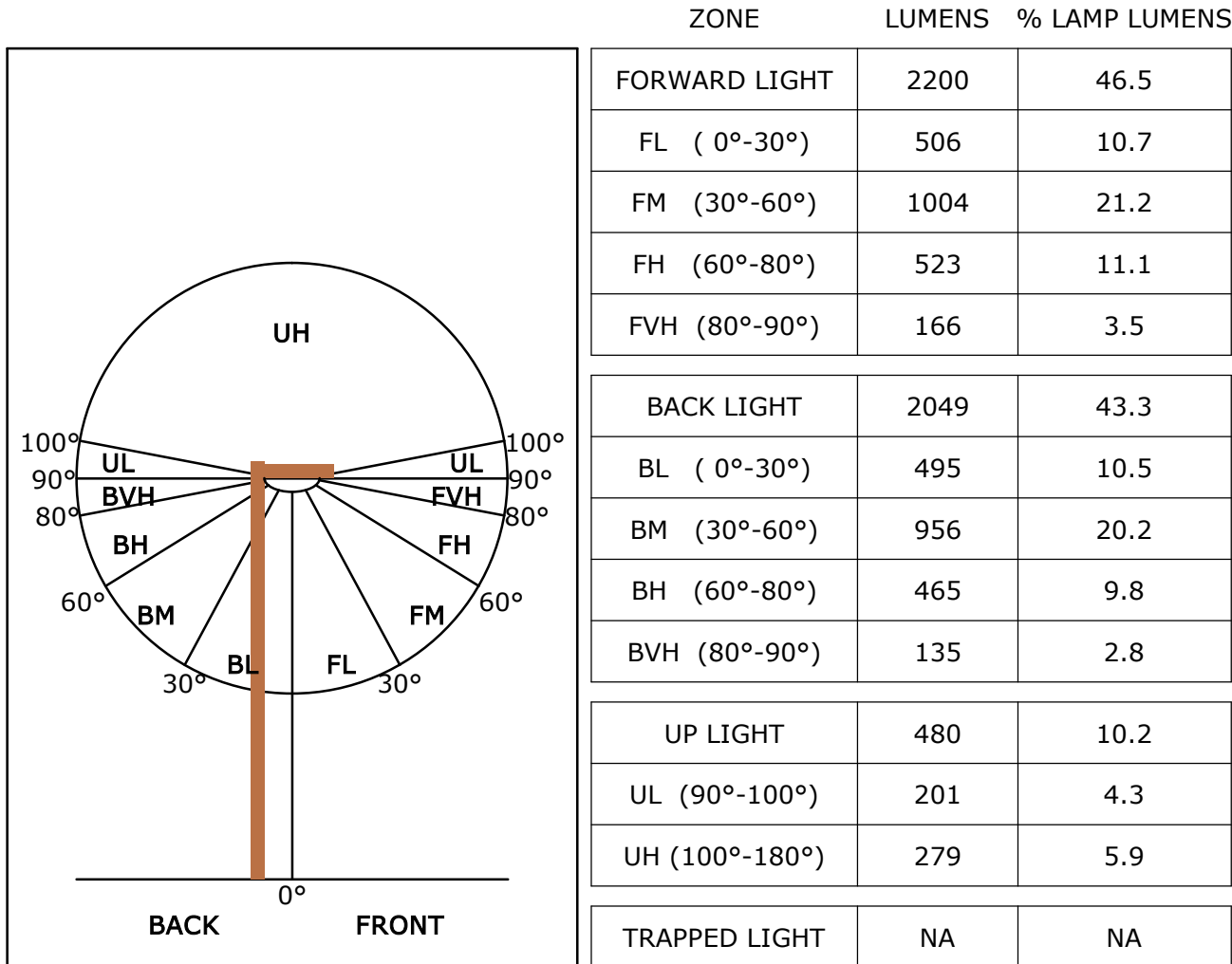
C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

FLUX DISTRIBUTION TABLE BASED ON THE IESNA LUMINAIRE CLASSIFICATION SYSTEM



BUG(Backlight,Uplight,Glare) Rating Base On TM-15-07	
Asymmetrical Luminaire Types (Type I,II,III,IV)	B1 U5 G1
Quadrilateral Symmetrical Luminaire Types (Type V,Area Light)	B1 U5 G1

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
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Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.53	0.61	0.68	0.73	0.80	0.85	0.89	0.94	0.97	
	0.30		0.45	0.53	0.60	0.66	0.73	0.79	0.83	0.89	0.92	
	0.20		0.40	0.47	0.54	0.60	0.68	0.74	0.78	0.84	0.89	
0.50	0.50	0.20	0.51	0.58	0.64	0.69	0.76	0.80	0.83	0.88	0.91	
	0.30		0.44	0.51	0.58	0.63	0.70	0.75	0.78	0.84	0.87	
	0.20		0.39	0.46	0.53	0.58	0.65	0.70	0.74	0.80	0.84	
0.30	0.50	0.20	0.48	0.55	0.61	0.65	0.71	0.75	0.78	0.82	0.85	
	0.30		0.42	0.49	0.55	0.60	0.66	0.71	0.74	0.79	0.82	
	0.20		0.38	0.44	0.51	0.55	0.62	0.67	0.71	0.76	0.80	
0.00	0.00	0.00	0.35	0.40	0.47	0.51	0.57	0.62	0.65	0.69	0.73	
<p>Rating:40W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
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Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.50									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.99	0.86	0.74	0.65	0.54	0.46	0.40	0.32	0.26	
	0.30		0.83	0.73	0.65	0.58	0.49	0.42	0.37	0.30	0.25	
	0.20		0.71	0.64	0.57	0.52	0.44	0.39	0.34	0.28	0.24	
0.50	0.50	0.20	0.94	0.81	0.70	0.62	0.50	0.46	0.37	0.30	0.25	
	0.30		0.79	0.70	0.61	0.55	0.46	0.40	0.35	0.28	0.24	
	0.20		0.69	0.62	0.55	0.50	0.42	0.37	0.33	0.27	0.23	
0.30	0.50	0.20	0.89	0.76	0.66	0.58	0.47	0.40	0.35	0.28	0.23	
	0.30		0.76	0.67	0.59	0.53	0.44	0.38	0.33	0.27	0.23	
	0.20		0.67	0.60	0.53	0.48	0.41	0.35	0.31	0.26	0.22	
0.00	0.00	0.00	0.55	0.50	0.43	0.39	0.33	0.28	0.25	0.21	0.17	
<p>Rating:40W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.50								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.26	0.28	0.29	0.29	0.30	0.31	0.31	0.31	0.32
	0.30		0.19	0.21	0.22	0.23	0.25	0.26	0.27	0.28	0.29
	0.20		0.14	0.16	0.17	0.18	0.20	0.22	0.23	0.25	0.26
0.50	0.50	0.20	0.25	0.27	0.27	0.28	0.29	0.29	0.30	0.30	0.30
	0.30		0.19	0.20	0.22	0.23	0.24	0.25	0.26	0.27	0.28
	0.20		0.14	0.16	0.17	0.18	0.20	0.21	0.22	0.24	0.25
0.30	0.50	0.20	0.24	0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29
	0.30		0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27
	0.20		0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.23	0.24
0.00	0.00	0.00	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<p>Rating:40W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1302.2	1.2	1.2	0.03	0.03
1.0-2.0	1301.5	3.7	5.0	0.08	0.11
2.0-3.0	1300.3	6.2	11.2	0.13	0.24
3.0-4.0	1298.5	8.7	19.9	0.18	0.42
4.0-5.0	1296.2	11.2	31.0	0.24	0.66
5.0-6.0	1293.3	13.6	44.6	0.29	0.94
6.0-7.0	1289.9	16.0	60.7	0.34	1.28
7.0-8.0	1285.9	18.4	79.1	0.39	1.67
8.0-9.0	1281.4	20.8	99.8	0.44	2.11
9.0-10.0	1276.4	23.1	122.9	0.49	2.60
10.0-11.0	1270.9	25.4	148.3	0.54	3.14
11.0-12.0	1264.9	27.7	176.0	0.58	3.72
12.0-13.0	1258.4	29.9	205.9	0.63	4.35
13.0-14.0	1251.4	32.0	237.9	0.68	5.03
14.0-15.0	1244.1	34.2	272.0	0.72	5.75
15.0-16.0	1236.4	36.2	308.3	0.77	6.52
16.0-17.0	1228.3	38.3	346.5	0.81	7.33
17.0-18.0	1219.8	40.2	386.8	0.85	8.18
18.0-19.0	1211.0	42.1	428.9	0.89	9.07
19.0-20.0	1201.7	44.0	472.9	0.93	10.00
20.0-21.0	1192.1	45.8	518.7	0.97	10.97
21.0-22.0	1182.2	47.5	566.2	1.00	11.97
22.0-23.0	1172.0	49.2	615.4	1.04	13.01
23.0-24.0	1161.5	50.8	666.2	1.07	14.09
24.0-25.0	1150.5	52.3	718.5	1.11	15.19
25.0-26.0	1139.4	53.8	772.3	1.14	16.33
26.0-27.0	1128.1	55.2	827.5	1.17	17.50
27.0-28.0	1116.4	56.5	884.0	1.20	18.69
28.0-29.0	1104.4	57.8	941.8	1.22	19.91
29.0-30.0	1092.1	59.0	1000.7	1.25	21.16
30.0-31.0	1079.6	60.1	1060.8	1.27	22.43
31.0-32.0	1066.9	61.1	1122.0	1.29	23.72
32.0-33.0	1053.8	62.1	1184.1	1.31	25.04
33.0-34.0	1040.6	63.0	1247.0	1.33	26.37
34.0-35.0	1027.2	63.8	1310.8	1.35	27.72
35.0-36.0	1013.6	64.5	1375.4	1.36	29.08

C Plane (°):0.0-360.0: 30.0
 Test Lab:
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 Temperature: 25
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Zonal Lumen (Continue 1)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	999.8	65.2	1440.6	1.38	30.46
37.0-38.0	985.9	65.8	1506.4	1.39	31.85
38.0-39.0	971.7	66.3	1572.8	1.40	33.26
39.0-40.0	957.3	66.8	1639.5	1.41	34.67
40.0-41.0	942.8	67.1	1706.7	1.42	36.09
41.0-42.0	928.2	67.4	1774.1	1.43	37.51
42.0-43.0	913.3	67.7	1841.8	1.43	38.94
43.0-44.0	898.4	67.8	1909.6	1.43	40.38
44.0-45.0	883.5	67.9	1977.5	1.44	41.81
45.0-46.0	868.4	67.9	2045.4	1.44	43.25
46.0-47.0	853.1	67.9	2113.3	1.43	44.69
47.0-48.0	837.7	67.7	2181.0	1.43	46.12
48.0-49.0	822.2	67.5	2248.5	1.43	47.55
49.0-50.0	806.7	67.3	2315.8	1.42	48.97
50.0-51.0	791.1	66.9	2382.8	1.42	50.38
51.0-52.0	775.3	66.5	2449.3	1.41	51.79
52.0-53.0	759.6	66.1	2515.4	1.40	53.19
53.0-54.0	743.8	65.6	2580.9	1.39	54.57
54.0-55.0	728.0	65.0	2645.9	1.37	55.95
55.0-56.0	712.2	64.4	2710.3	1.36	57.31
56.0-57.0	696.3	63.7	2774.0	1.35	58.66
57.0-58.0	680.4	62.9	2836.9	1.33	59.99
58.0-59.0	664.4	62.1	2899.0	1.31	61.30
59.0-60.0	648.5	61.3	2960.3	1.30	62.60
60.0-61.0	632.6	60.4	3020.7	1.28	63.87
61.0-62.0	616.7	59.4	3080.1	1.26	65.13
62.0-63.0	600.8	58.4	3138.5	1.24	66.36
63.0-64.0	585.0	57.4	3196.0	1.21	67.58
64.0-65.0	569.1	56.3	3252.3	1.19	68.77
65.0-66.0	553.3	55.2	3307.5	1.17	69.94
66.0-67.0	537.6	54.1	3361.6	1.14	71.08
67.0-68.0	521.9	52.9	3414.4	1.12	72.20
68.0-69.0	506.4	51.7	3466.1	1.09	73.29
69.0-70.0	490.9	50.4	3516.5	1.07	74.36
70.0-71.0	475.5	49.1	3565.7	1.04	75.40
71.0-72.0	460.1	47.9	3613.5	1.01	76.41

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
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 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Zonal Lumen (Continue 2)

Gamma [°]	Imean [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	445.0	46.5	3660.1	0.98	77.39
73.0-74.0	430.0	45.2	3705.3	0.96	78.35
74.0-75.0	415.1	43.9	3749.2	0.93	79.28
75.0-76.0	400.4	42.5	3791.7	0.90	80.17
76.0-77.0	385.9	41.1	3832.8	0.87	81.05
77.0-78.0	371.6	39.8	3872.6	0.84	81.89
78.0-79.0	357.5	38.4	3911.0	0.81	82.70
79.0-80.0	343.7	37.1	3948.1	0.78	83.48
80.0-81.0	330.2	35.7	3983.8	0.76	84.24
81.0-82.0	317.0	34.4	4018.2	0.73	84.96
82.0-83.0	304.2	33.1	4051.2	0.70	85.66
83.0-84.0	291.8	31.8	4083.0	0.67	86.34
84.0-85.0	279.8	30.5	4113.6	0.65	86.98
85.0-86.0	268.3	29.3	4142.9	0.62	87.60
86.0-87.0	257.2	28.1	4171.0	0.60	88.20
87.0-88.0	246.7	27.0	4198.1	0.57	88.77
88.0-89.0	236.7	26.0	4224.0	0.55	89.32
89.0-90.0	227.4	24.9	4249.0	0.53	89.84
90.0-91.0	218.7	24.0	4272.9	0.51	90.35
91.0-92.0	210.4	23.1	4296.0	0.49	90.84
92.0-93.0	202.3	22.2	4318.2	0.47	91.31
93.0-94.0	194.6	21.3	4339.5	0.45	91.76
94.0-95.0	187.0	20.4	4359.9	0.43	92.19
95.0-96.0	179.6	19.6	4379.5	0.41	92.60
96.0-97.0	172.5	18.8	4398.3	0.40	93.00
97.0-98.0	165.6	18.0	4416.3	0.38	93.38
98.0-99.0	158.9	17.2	4433.6	0.36	93.75
99.0-100.0	152.4	16.5	4450.0	0.35	94.10
100.0-101.0	146.1	15.8	4465.8	0.33	94.43
101.0-102.0	139.9	15.0	4480.8	0.32	94.75
102.0-103.0	134.0	14.3	4495.2	0.30	95.05
103.0-104.0	128.2	13.7	4508.8	0.29	95.34
104.0-105.0	122.5	13.0	4521.9	0.28	95.61
105.0-106.0	116.7	12.3	4534.2	0.26	95.88
106.0-107.0	111.0	11.7	4545.9	0.25	96.12
107.0-108.0	105.1	11.0	4556.8	0.23	96.35

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

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Zonal Lumen (Continue 3)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	99.4	10.3	4567.2	0.22	96.57
109.0-110.0	94.1	9.7	4576.9	0.21	96.78
110.0-111.0	89.2	9.2	4586.1	0.19	96.97
111.0-112.0	84.6	8.6	4594.7	0.18	97.16
112.0-113.0	80.6	8.2	4602.9	0.17	97.33
113.0-114.0	76.7	7.7	4610.6	0.16	97.49
114.0-115.0	73.0	7.3	4617.9	0.15	97.64
115.0-116.0	69.5	6.9	4624.8	0.15	97.79
116.0-117.0	66.3	6.5	4631.3	0.14	97.93
117.0-118.0	63.3	6.2	4637.4	0.13	98.06
118.0-119.0	60.3	5.8	4643.2	0.12	98.18
119.0-120.0	57.5	5.5	4648.7	0.12	98.30
120.0-121.0	54.7	5.2	4653.9	0.11	98.41
121.0-122.0	52.1	4.9	4658.8	0.10	98.51
122.0-123.0	49.5	4.6	4663.3	0.10	98.61
123.0-124.0	47.1	4.3	4667.6	0.09	98.70
124.0-125.0	44.7	4.0	4671.7	0.09	98.78
125.0-126.0	42.4	3.8	4675.5	0.08	98.86
126.0-127.0	40.2	3.5	4679.0	0.08	98.94
127.0-128.0	38.1	3.3	4682.3	0.07	99.01
128.0-129.0	36.1	3.1	4685.4	0.07	99.07
129.0-130.0	34.2	2.9	4688.3	0.06	99.13
130.0-131.0	32.3	2.7	4691.0	0.06	99.19
131.0-132.0	30.6	2.5	4693.5	0.05	99.24
132.0-133.0	28.9	2.3	4695.9	0.05	99.29
133.0-134.0	27.3	2.2	4698.0	0.05	99.34
134.0-135.0	25.8	2.0	4700.1	0.04	99.38
135.0-136.0	24.4	1.9	4701.9	0.04	99.42
136.0-137.0	23.1	1.7	4703.7	0.04	99.46
137.0-138.0	21.9	1.6	4705.3	0.03	99.49
138.0-139.0	20.7	1.5	4706.8	0.03	99.53
139.0-140.0	19.7	1.4	4708.2	0.03	99.56
140.0-141.0	18.7	1.3	4709.5	0.03	99.58
141.0-142.0	17.9	1.2	4710.7	0.03	99.61
142.0-143.0	17.1	1.1	4711.9	0.02	99.63
143.0-144.0	16.5	1.1	4712.9	0.02	99.66

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Zonal Lumen (Continue 4)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	15.8	1.0	4714.0	0.02	99.68
145.0-146.0	15.3	1.0	4714.9	0.02	99.70
146.0-147.0	14.8	0.9	4715.8	0.02	99.72
147.0-148.0	14.4	0.8	4716.7	0.02	99.73
148.0-149.0	14.0	0.8	4717.5	0.02	99.75
149.0-150.0	13.7	0.8	4718.2	0.02	99.77
150.0-151.0	13.5	0.7	4718.9	0.02	99.78
151.0-152.0	13.3	0.7	4719.6	0.01	99.80
152.0-153.0	13.1	0.7	4720.3	0.01	99.81
153.0-154.0	13.0	0.6	4720.9	0.01	99.82
154.0-155.0	12.9	0.6	4721.6	0.01	99.84
155.0-156.0	12.9	0.6	4722.1	0.01	99.85
156.0-157.0	12.9	0.6	4722.7	0.01	99.86
157.0-158.0	12.9	0.5	4723.2	0.01	99.87
158.0-159.0	12.9	0.5	4723.8	0.01	99.88
159.0-160.0	13.0	0.5	4724.3	0.01	99.89
160.0-161.0	13.0	0.5	4724.7	0.01	99.90
161.0-162.0	13.0	0.5	4725.2	0.01	99.91
162.0-163.0	13.0	0.4	4725.6	0.01	99.92
163.0-164.0	13.1	0.4	4726.0	0.01	99.93
164.0-165.0	13.1	0.4	4726.4	0.01	99.94
165.0-166.0	13.1	0.4	4726.8	0.01	99.95
166.0-167.0	13.2	0.3	4727.1	0.01	99.95
167.0-168.0	13.2	0.3	4727.4	0.01	99.96
168.0-169.0	13.2	0.3	4727.7	0.01	99.97
169.0-170.0	13.2	0.3	4728.0	0.01	99.97
170.0-171.0	13.2	0.2	4728.2	0.01	99.98
171.0-172.0	13.2	0.2	4728.4	0.00	99.98
172.0-173.0	13.3	0.2	4728.6	0.00	99.99
173.0-174.0	13.3	0.2	4728.8	0.00	99.99
174.0-175.0	13.3	0.1	4728.9	0.00	99.99
175.0-176.0	13.2	0.1	4729.0	0.00	100.00
176.0-177.0	13.2	0.1	4729.1	0.00	100.00
177.0-178.0	13.2	0.1	4729.2	0.00	100.00
178.0-179.0	13.2	0.0	4729.2	0.00	100.00
179.0-180.0	13.2	0.0	4729.2	0.00	100.00

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G0.0	1297.0	1298.2	1300.9	1303.6	1306.5	1307.7	1297.0	1298.2	1300.9	1303.6
G1.0	1296.4	1298.5	1302.0	1304.8	1307.6	1308.3	1297.0	1297.2	1299.3	1301.8
G2.0	1295.3	1298.3	1302.4	1305.4	1308.0	1308.3	1296.3	1295.7	1297.0	1299.2
G3.0	1293.4	1297.4	1302.1	1305.6	1308.0	1307.7	1295.1	1293.5	1294.2	1296.3
G4.0	1291.1	1295.8	1301.5	1305.3	1307.5	1306.6	1293.2	1290.7	1290.9	1292.7
G5.0	1288.1	1293.7	1300.3	1304.5	1306.5	1304.9	1290.8	1287.3	1287.0	1288.7
G6.0	1284.6	1291.0	1298.7	1303.1	1304.9	1302.6	1287.6	1283.5	1282.6	1284.2
G7.0	1280.3	1287.7	1296.4	1301.1	1302.8	1299.7	1284.0	1278.8	1277.8	1279.5
G8.0	1275.6	1284.1	1293.6	1298.4	1300.0	1296.5	1279.6	1273.9	1272.6	1274.0
G9.0	1270.2	1279.7	1290.0	1295.1	1296.6	1292.4	1274.8	1268.3	1266.9	1268.6
G10.0	1264.3	1275.0	1285.9	1291.5	1292.4	1287.9	1269.2	1261.9	1260.9	1262.9
G11.0	1258.0	1269.3	1281.2	1287.3	1287.8	1282.7	1263.2	1255.4	1254.7	1256.8
G12.0	1250.6	1263.5	1276.0	1282.6	1282.9	1276.9	1256.7	1248.2	1247.9	1250.6
G13.0	1243.1	1256.8	1270.5	1277.4	1277.3	1270.6	1249.2	1240.7	1240.9	1244.2
G14.0	1234.7	1249.6	1264.3	1272.3	1271.4	1263.8	1241.5	1232.0	1233.6	1237.7
G15.0	1226.3	1241.9	1257.7	1266.3	1265.0	1256.5	1233.2	1223.6	1226.4	1230.9
G16.0	1216.8	1233.6	1250.7	1260.5	1258.4	1248.2	1224.1	1214.6	1218.6	1224.3
G17.0	1207.0	1225.0	1243.6	1254.3	1251.3	1239.7	1214.9	1204.9	1210.7	1217.3
G18.0	1196.9	1215.0	1236.1	1247.9	1244.0	1231.0	1204.9	1194.9	1202.7	1210.3
G19.0	1186.2	1205.5	1228.2	1241.1	1236.2	1221.2	1194.4	1184.7	1194.2	1202.5
G20.0	1174.6	1195.1	1219.9	1234.0	1227.9	1211.2	1183.3	1173.7	1185.5	1195.0
G21.0	1163.0	1184.5	1211.4	1227.0	1219.9	1200.8	1172.1	1162.6	1176.9	1187.0
G22.0	1150.7	1173.2	1202.7	1219.5	1211.5	1190.1	1159.9	1151.0	1167.8	1179.1
G23.0	1138.4	1161.6	1193.6	1212.1	1202.6	1178.9	1147.7	1139.4	1158.2	1170.8
G24.0	1124.9	1149.5	1184.2	1204.6	1193.7	1167.1	1134.2	1126.9	1148.8	1162.4
G25.0	1111.7	1137.2	1174.8	1196.5	1184.2	1155.4	1120.9	1114.4	1138.5	1153.7
G26.0	1097.8	1124.4	1165.1	1188.6	1175.1	1142.8	1107.0	1101.5	1128.6	1145.2
G27.0	1083.6	1111.7	1155.5	1180.0	1165.1	1130.3	1093.3	1088.5	1118.4	1136.0
G28.0	1068.6	1098.1	1145.2	1171.6	1155.3	1116.8	1078.6	1074.6	1108.1	1127.3
G29.0	1053.9	1084.7	1134.8	1162.7	1145.1	1103.7	1063.8	1060.9	1096.8	1118.0
G30.0	1038.3	1070.6	1124.1	1153.7	1134.4	1089.5	1048.0	1046.5	1086.1	1108.9
G31.0	1023.1	1056.4	1113.3	1144.3	1124.0	1076.0	1032.2	1032.8	1075.3	1099.3
G32.0	1006.7	1041.9	1102.3	1134.8	1112.9	1061.8	1016.0	1017.5	1063.7	1089.4
G33.0	990.8	1027.3	1091.1	1125.4	1102.0	1047.3	999.2	1002.6	1052.0	1079.1
G34.0	973.8	1011.9	1079.6	1115.9	1090.1	1032.2	982.8	987.9	1040.7	1069.1
G35.0	957.2	997.4	1068.2	1105.9	1079.1	1017.6	965.3	972.4	1028.8	1058.3
G36.0	939.9	981.2	1056.3	1096.2	1067.2	1002.3	948.2	957.1	1016.8	1048.0

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G37.0	922.5	966.3	1044.8	1086.2	1055.4	987.6	930.1	940.8	1004.6	1037.0
G38.0	904.8	950.2	1032.3	1076.3	1043.4	971.7	912.9	925.1	992.1	1026.3
G39.0	887.0	934.7	1020.1	1065.8	1031.7	956.0	894.4	908.5	979.3	1014.8
G40.0	869.0	918.7	1007.9	1055.4	1019.5	940.1	876.2	892.6	966.8	1003.5
G41.0	850.8	902.5	995.9	1044.8	1007.2	924.1	858.2	876.2	953.8	991.3
G42.0	832.4	885.8	983.7	1033.9	994.5	907.9	839.3	859.7	940.3	979.3
G43.0	814.3	869.7	971.2	1023.5	982.3	891.6	820.0	842.7	927.1	967.4
G44.0	795.4	853.0	958.2	1012.0	969.6	875.0	801.9	826.3	913.9	954.8
G45.0	776.9	836.7	945.8	1000.9	957.0	859.1	782.3	809.8	900.0	942.7
G46.0	758.0	820.3	932.8	989.4	943.6	842.4	763.9	793.2	886.3	930.0
G47.0	738.9	803.1	919.8	977.8	931.2	825.7	744.1	775.5	872.0	917.1
G48.0	720.7	786.9	906.7	966.2	917.8	808.8	724.8	758.4	858.3	904.6
G49.0	701.1	769.6	893.4	954.6	904.8	792.3	705.2	741.7	843.8	891.0
G50.0	681.9	752.6	880.1	942.6	891.4	775.3	686.2	724.6	829.5	878.5
G51.0	663.1	736.0	866.7	930.7	878.2	758.3	666.1	707.5	815.2	864.8
G52.0	643.3	718.9	853.2	918.2	864.4	741.3	646.8	690.3	801.0	851.4
G53.0	624.3	702.3	840.2	906.4	851.3	724.6	626.6	672.6	786.1	837.7
G54.0	604.7	685.2	826.5	893.8	837.5	707.6	607.2	655.7	772.2	823.3
G55.0	586.1	668.3	813.1	881.4	823.8	690.6	587.2	638.8	757.4	810.0
G56.0	566.2	651.5	799.3	868.4	809.9	673.7	567.4	621.9	742.6	795.5
G57.0	546.7	635.6	785.9	855.8	796.0	657.3	547.6	604.1	727.7	782.0
G58.0	527.2	618.2	771.8	842.6	782.3	640.6	527.8	587.4	713.2	767.7
G59.0	508.1	601.5	757.9	829.9	768.3	624.6	508.4	570.5	698.4	752.7
G60.0	488.5	585.6	744.2	816.6	754.5	607.4	489.1	553.5	683.2	738.3
G61.0	469.6	569.3	730.3	803.8	740.6	591.3	468.8	536.2	668.3	723.9
G62.0	449.7	553.0	716.2	790.3	726.5	574.8	448.6	520.2	653.3	708.8
G63.0	431.2	536.4	703.0	777.2	712.9	558.1	429.2	503.0	638.6	694.3
G64.0	411.6	520.8	688.9	763.9	698.3	541.9	409.8	486.8	623.3	679.8
G65.0	392.0	504.2	675.2	750.5	684.7	526.3	389.6	470.3	608.6	664.9
G66.0	373.1	489.0	661.3	736.6	670.3	510.2	370.4	454.0	593.6	649.8
G67.0	353.8	472.9	647.7	723.2	656.5	494.2	350.5	437.9	579.0	635.1
G68.0	334.5	458.0	633.5	709.4	642.4	478.3	331.5	422.4	564.0	619.9
G69.0	315.0	442.2	619.9	695.8	628.6	462.6	312.3	406.7	549.5	605.0
G70.0	296.4	427.3	606.1	682.0	614.9	447.4	293.5	391.2	534.4	590.0
G71.0	277.4	412.2	592.6	668.3	600.5	431.7	273.9	375.6	519.7	575.2
G72.0	259.5	397.3	578.8	654.1	586.8	416.8	255.3	360.8	505.1	560.3
G73.0	240.8	382.3	565.6	640.7	573.1	401.8	236.5	345.9	490.9	545.2

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G74.0	222.9	368.9	551.4	626.4	558.9	387.4	218.3	331.3	476.2	529.8
G75.0	204.4	354.8	537.9	612.8	545.2	372.7	199.7	317.1	462.1	515.0
G76.0	186.7	341.0	524.5	598.7	531.6	358.8	181.7	303.5	448.3	500.3
G77.0	169.4	327.2	511.3	584.9	518.3	344.9	163.8	289.5	434.4	485.6
G78.0	151.6	313.9	498.0	571.1	504.6	331.3	147.0	276.3	420.3	470.8
G79.0	135.5	300.6	485.0	557.4	491.3	317.3	130.0	263.6	406.9	456.8
G80.0	119.6	288.2	472.0	543.4	477.7	304.7	113.8	250.9	393.1	442.6
G81.0	103.9	275.5	459.0	530.1	464.6	291.3	98.7	238.4	380.1	429.0
G82.0	89.3	263.5	446.0	516.3	451.7	279.0	84.0	226.8	367.5	415.1
G83.0	75.6	251.5	433.2	502.7	438.6	266.6	70.5	215.5	355.1	402.1
G84.0	62.5	240.5	421.1	489.4	426.0	254.8	57.5	204.5	342.5	388.9
G85.0	51.0	229.3	408.6	476.4	413.6	243.3	46.5	193.9	330.5	376.5
G86.0	40.7	218.7	396.6	463.1	401.4	231.9	36.3	183.4	318.6	364.1
G87.0	32.0	208.2	384.1	450.1	389.0	220.8	27.9	173.8	307.7	352.6
G88.0	25.0	198.2	372.5	437.5	376.9	210.7	21.4	164.5	296.3	340.3
G89.0	19.9	188.7	361.1	425.1	365.0	200.2	17.1	155.6	285.4	329.0
G90.0	17.0	179.6	349.8	412.8	353.8	190.5	14.9	146.9	275.0	317.8
G91.0	16.2	170.9	338.5	400.4	342.2	181.0	14.3	138.8	264.7	307.1
G92.0	15.9	162.4	327.6	388.8	331.2	172.3	14.1	130.7	254.8	296.5
G93.0	15.6	154.3	317.1	376.7	320.3	163.5	13.9	123.3	245.3	286.3
G94.0	15.4	146.9	306.5	365.6	309.7	155.6	13.7	116.2	235.4	276.2
G95.0	15.2	139.3	296.0	354.0	299.3	147.6	13.6	109.2	226.5	266.3
G96.0	15.0	132.3	286.4	342.9	289.3	140.2	13.4	102.3	217.4	256.7
G97.0	14.8	125.6	276.5	332.0	279.2	132.8	13.3	95.9	208.9	247.3
G98.0	14.7	119.2	267.0	321.8	269.6	126.0	13.1	89.8	200.0	238.2
G99.0	14.5	112.9	257.8	311.2	260.2	119.5	13.0	84.0	191.8	229.4
G100.0	14.3	107.3	248.7	301.4	250.8	113.3	12.9	78.3	183.5	220.9
G101.0	14.2	101.6	239.7	291.3	242.1	107.2	12.8	72.9	175.8	212.1
G102.0	14.0	96.3	230.9	281.7	233.4	101.6	12.7	67.7	167.7	203.7
G103.0	13.8	91.0	222.5	271.9	224.5	96.1	12.5	62.9	160.5	195.7
G104.0	13.6	86.2	214.4	262.5	216.3	90.9	12.4	58.2	153.1	187.8
G105.0	13.5	81.6	206.3	253.8	208.1	85.9	12.3	54.2	144.3	180.3
G106.0	13.3	77.2	198.5	244.9	200.3	81.3	12.2	50.3	132.9	172.6
G107.0	13.2	72.9	189.8	236.3	192.0	76.7	12.1	46.9	123.9	165.3
G108.0	13.1	68.8	177.0	227.9	180.2	72.5	12.0	43.7	115.9	155.8
G109.0	12.9	64.9	166.2	219.5	167.9	68.1	11.9	40.4	110.0	148.0
G110.0	12.8	61.1	156.6	209.3	158.6	64.2	11.8	37.0	104.7	141.5

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

FACTORY DIRECT LIGHTING

Tel:
Fax:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G111.0	12.6	56.8	150.1	198.0	150.3	59.6	11.7	34.1	99.3	135.4
G112.0	12.5	52.7	144.5	189.4	144.5	55.2	11.6	31.2	94.2	129.4
G113.0	12.4	49.0	138.6	182.2	138.5	51.1	11.5	28.6	89.1	123.5
G114.0	12.3	45.5	132.9	175.0	133.0	47.2	11.5	26.6	84.5	117.9
G115.0	12.2	42.6	127.2	168.3	127.3	43.9	11.4	24.9	79.7	112.3
G116.0	12.1	39.8	121.7	161.6	121.9	41.1	11.3	23.3	75.6	107.0
G117.0	11.9	37.5	116.4	155.1	116.9	38.6	11.2	21.8	72.0	101.8
G118.0	11.9	35.2	111.2	148.8	111.8	36.1	11.1	20.3	68.6	96.7
G119.0	11.8	33.1	106.3	142.6	107.1	34.0	11.0	19.0	65.2	92.0
G120.0	11.7	31.0	101.5	136.6	102.2	31.8	11.0	17.7	61.8	87.3
G121.0	11.6	29.1	97.0	130.7	97.6	29.8	10.9	16.6	58.6	82.9
G122.0	11.5	27.4	92.5	125.0	93.0	28.0	10.9	15.6	55.4	78.6
G123.0	11.4	25.8	88.1	119.4	88.5	26.3	10.8	14.6	52.3	74.5
G124.0	11.4	24.4	83.7	114.1	84.1	24.7	10.8	13.9	49.3	70.7
G125.0	11.3	23.0	79.5	108.6	79.7	23.3	10.7	13.3	46.3	66.9
G126.0	11.2	21.6	75.3	103.5	75.3	22.0	10.7	12.9	43.3	63.2
G127.0	11.2	20.3	71.3	98.5	71.1	20.6	10.6	12.7	40.3	59.6
G128.0	11.1	19.1	67.2	93.4	67.0	19.5	10.6	12.5	37.6	56.2
G129.0	11.1	18.0	63.3	88.8	62.9	18.4	10.6	12.4	34.9	52.8
G130.0	11.0	17.0	59.5	84.1	59.2	17.3	10.6	12.4	32.6	49.6
G131.0	11.0	16.1	55.7	79.7	55.6	16.4	10.6	12.3	30.3	46.4
G132.0	10.9	15.3	52.1	75.1	52.1	15.6	10.5	12.3	28.2	43.3
G133.0	10.9	14.5	48.9	70.9	48.9	14.9	10.5	12.2	26.2	40.4
G134.0	10.9	13.8	45.6	66.8	45.7	14.1	10.5	12.1	24.4	37.6
G135.0	10.9	13.3	42.6	62.8	42.6	13.5	10.5	12.1	22.6	35.0
G136.0	10.8	12.9	39.7	59.0	39.7	13.1	10.5	12.1	21.0	32.6
G137.0	10.8	12.6	37.0	55.3	37.0	12.9	10.5	12.0	19.4	30.2
G138.0	10.8	12.4	34.6	51.6	34.5	12.6	10.6	12.0	18.0	28.0
G139.0	10.8	12.2	32.3	48.2	32.3	12.5	10.6	11.9	16.8	25.8
G140.0	10.8	12.1	30.1	44.7	30.1	12.4	10.6	11.9	15.7	23.8
G141.0	10.8	12.1	28.0	41.5	28.1	12.3	10.6	11.9	15.0	21.9
G142.0	10.9	12.0	26.1	38.6	26.1	12.3	10.6	11.9	14.6	20.1
G143.0	10.9	12.0	24.3	35.8	24.3	12.3	10.7	11.9	14.3	18.5
G144.0	10.9	11.9	22.5	33.2	22.5	12.2	10.7	12.0	14.1	17.3
G145.0	10.9	11.9	20.9	30.8	20.9	12.2	10.8	12.0	14.1	16.3
G146.0	11.0	11.8	19.2	28.5	19.4	12.2	10.8	12.1	14.0	15.6
G147.0	11.1	11.8	17.9	26.3	17.9	12.2	10.9	12.1	13.9	15.3

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C30.0	C60.0	C90.0	C120.0	C150.0	C180.0	C210.0	C240.0	C270.0
G148.0	11.1	11.8	16.6	24.1	16.7	12.2	11.0	12.2	13.8	15.0
G149.0	11.2	11.8	15.5	22.1	15.6	12.2	11.1	12.3	13.8	14.9
G150.0	11.3	11.8	14.6	20.2	14.7	12.2	11.2	12.3	13.7	14.7
G151.0	11.4	11.9	14.1	18.5	14.2	12.3	11.3	12.4	13.6	14.6
G152.0	11.5	11.9	13.7	17.1	13.8	12.3	11.4	12.5	13.6	14.4
G153.0	11.6	12.0	13.4	15.8	13.5	12.4	11.5	12.6	13.6	14.3
G154.0	11.6	12.1	13.3	14.9	13.4	12.4	11.6	12.6	13.5	14.2
G155.0	11.8	12.1	13.3	14.4	13.4	12.5	11.7	12.7	13.5	14.1
G156.0	11.8	12.2	13.2	14.0	13.3	12.5	11.8	12.7	13.5	14.0
G157.0	11.9	12.3	13.1	13.8	13.3	12.6	11.9	12.8	13.5	13.9
G158.0	12.0	12.4	13.1	13.7	13.3	12.7	12.0	12.9	13.5	13.9
G159.0	12.1	12.4	13.0	13.6	13.3	12.7	12.1	12.9	13.5	13.8
G160.0	12.1	12.5	13.0	13.5	13.3	12.7	12.1	13.0	13.5	13.8
G161.0	12.2	12.6	13.0	13.5	13.3	12.8	12.2	13.0	13.5	13.8
G162.0	12.3	12.6	12.9	13.4	13.3	12.8	12.3	13.1	13.5	13.8
G163.0	12.4	12.7	12.9	13.4	13.2	12.9	12.4	13.1	13.5	13.7
G164.0	12.5	12.7	12.9	13.4	13.2	12.9	12.5	13.2	13.5	13.8
G165.0	12.6	12.8	12.9	13.4	13.2	12.9	12.5	13.2	13.6	13.7
G166.0	12.6	12.8	12.9	13.3	13.3	13.0	12.6	13.3	13.6	13.8
G167.0	12.7	12.9	12.9	13.4	13.3	13.1	12.7	13.3	13.6	13.8
G168.0	12.8	12.9	12.9	13.3	13.3	13.1	12.8	13.3	13.6	13.8
G169.0	12.8	12.9	12.9	13.3	13.3	13.1	12.8	13.3	13.6	13.8
G170.0	12.9	12.9	12.9	13.3	13.3	13.1	12.9	13.3	13.6	13.8
G171.0	12.9	12.9	12.9	13.4	13.3	13.2	12.9	13.3	13.6	13.6
G172.0	13.0	12.9	13.0	13.4	13.3	13.2	13.0	13.3	13.6	13.6
G173.0	13.0	12.9	13.0	13.4	13.3	13.2	13.0	13.3	13.6	13.6
G174.0	13.1	12.9	13.0	13.4	13.3	13.2	13.1	13.3	13.5	13.6
G175.0	13.1	13.0	13.1	13.4	13.3	13.2	13.1	13.2	13.4	13.5
G176.0	13.2	13.0	13.0	13.4	13.3	13.2	13.1	13.2	13.4	13.4
G177.0	13.2	13.0	13.0	13.3	13.3	13.2	13.2	13.1	13.3	13.3
G178.0	13.2	13.0	13.0	13.4	13.2	13.2	13.2	13.1	13.2	13.1
G179.0	13.3	13.1	13.0	13.3	13.2	13.2	13.3	13.1	13.1	13.4
G180.0	13.3	13.1	13.1	13.4	13.2	13.3	13.3	13.1	13.0	13.4

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Candlepower Table (Continue 5)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G0.0	1306.5	1307.7	1297.0							
G1.0	1304.8	1306.4	1296.4							
G2.0	1302.4	1304.5	1295.3							
G3.0	1299.5	1302.0	1293.4							
G4.0	1296.0	1298.8	1291.1							
G5.0	1292.1	1295.2	1288.1							
G6.0	1287.5	1290.9	1284.6							
G7.0	1282.5	1286.1	1280.3							
G8.0	1277.0	1280.6	1275.6							
G9.0	1271.1	1274.8	1270.2							
G10.0	1264.9	1267.9	1264.3							
G11.0	1258.6	1261.0	1258.0							
G12.0	1251.5	1253.2	1250.6							
G13.0	1244.5	1245.3	1243.1							
G14.0	1236.8	1236.2	1234.7							
G15.0	1229.4	1227.3	1226.3							
G16.0	1221.4	1217.8	1216.8							
G17.0	1212.9	1207.8	1207.0							
G18.0	1204.8	1197.4	1196.9							
G19.0	1196.2	1186.8	1186.2							
G20.0	1187.5	1175.6	1174.6							
G21.0	1178.3	1163.9	1163.0							
G22.0	1168.9	1151.7	1150.7							
G23.0	1159.3	1139.7	1138.4							
G24.0	1149.3	1127.1	1124.9							
G25.0	1139.3	1113.5	1111.7							
G26.0	1129.2	1100.1	1097.8							
G27.0	1118.6	1086.7	1083.6							
G28.0	1108.1	1073.0	1068.6							
G29.0	1096.9	1058.3	1053.9							
G30.0	1085.8	1043.8	1038.3							
G31.0	1074.5	1029.0	1023.1							
G32.0	1063.6	1014.3	1006.7							
G33.0	1051.5	999.1	990.8							
G34.0	1040.0	984.0	973.8							
G35.0	1027.8	967.8	957.2							
G36.0	1015.7	951.8	939.9							

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Candlepower Table (Continue 6)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G37.0	1003.4	935.8	922.5							
G38.0	991.1	919.8	904.8							
G39.0	978.2	903.7	887.0							
G40.0	965.7	886.1	869.0							
G41.0	952.4	869.7	850.8							
G42.0	938.8	853.3	832.4							
G43.0	925.7	835.6	814.3							
G44.0	912.3	819.0	795.4							
G45.0	898.5	801.9	776.9							
G46.0	884.9	785.1	758.0							
G47.0	870.8	767.5	738.9							
G48.0	857.1	750.7	720.7							
G49.0	842.3	733.0	701.1							
G50.0	828.4	716.1	681.9							
G51.0	814.0	698.4	663.1							
G52.0	799.5	681.4	643.3							
G53.0	785.0	663.7	624.3							
G54.0	770.4	646.7	604.7							
G55.0	756.0	629.2	586.1							
G56.0	741.2	612.3	566.2							
G57.0	726.7	595.1	546.7							
G58.0	711.6	578.0	527.2							
G59.0	696.9	561.0	508.1							
G60.0	682.1	543.9	488.5							
G61.0	667.5	526.6	469.6							
G62.0	652.2	510.1	449.7							
G63.0	637.3	493.4	431.2							
G64.0	622.6	477.1	411.6							
G65.0	607.9	460.6	392.0							
G66.0	592.6	444.7	373.1							
G67.0	577.9	428.3	353.8							
G68.0	563.1	412.6	334.5							
G69.0	548.8	397.0	315.0							
G70.0	533.7	381.6	296.4							
G71.0	519.0	366.4	277.4							
G72.0	504.5	351.4	259.5							
G73.0	490.4	336.7	240.8							

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Tel:
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Candlepower Table (Continue 7)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G74.0	475.9	322.7	222.9							
G75.0	462.0	308.9	204.4							
G76.0	447.3	294.9	186.7							
G77.0	433.6	281.5	169.4							
G78.0	420.1	268.7	151.6							
G79.0	406.4	255.8	135.5							
G80.0	392.6	243.4	119.6							
G81.0	379.6	231.6	103.9							
G82.0	366.7	219.8	89.3							
G83.0	354.1	208.8	75.6							
G84.0	342.0	198.1	62.5							
G85.0	330.3	188.0	51.0							
G86.0	318.0	177.9	40.7							
G87.0	307.0	168.4	32.0							
G88.0	295.8	159.5	25.0							
G89.0	285.2	151.0	19.9							
G90.0	274.6	142.6	17.0							
G91.0	264.5	134.6	16.2							
G92.0	254.2	126.9	15.9							
G93.0	244.5	119.6	15.6							
G94.0	235.2	112.6	15.4							
G95.0	226.2	105.9	15.2							
G96.0	217.1	99.4	15.0							
G97.0	208.4	93.1	14.8							
G98.0	199.8	87.2	14.7							
G99.0	191.3	81.5	14.5							
G100.0	183.2	75.8	14.3							
G101.0	175.4	70.7	14.2							
G102.0	167.6	65.7	14.0							
G103.0	160.4	61.1	13.8							
G104.0	152.7	56.6	13.6							
G105.0	142.9	52.7	13.5							
G106.0	132.0	49.2	13.3							
G107.0	123.2	45.9	13.2							
G108.0	116.3	42.5	13.1							
G109.0	110.8	39.2	12.9							
G110.0	105.6	36.0	12.8							

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Tel:
Fax:

Candlepower Table (Continue 8)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G111.0	100.1	33.2	12.6							
G112.0	94.9	30.5	12.5							
G113.0	90.0	28.2	12.4							
G114.0	85.0	26.3	12.3							
G115.0	80.3	24.5	12.2							
G116.0	76.2	23.0	12.1							
G117.0	72.6	21.6	11.9							
G118.0	69.1	20.3	11.9							
G119.0	65.8	19.0	11.8							
G120.0	62.4	17.9	11.7							
G121.0	59.0	16.7	11.6							
G122.0	55.9	15.7	11.5							
G123.0	52.7	14.8	11.4							
G124.0	49.6	14.1	11.4							
G125.0	46.6	13.5	11.3							
G126.0	43.7	13.2	11.2							
G127.0	40.7	12.9	11.2							
G128.0	37.9	12.8	11.1							
G129.0	35.3	12.7	11.1							
G130.0	32.9	12.6	11.0							
G131.0	30.5	12.5	11.0							
G132.0	28.5	12.4	10.9							
G133.0	26.5	12.3	10.9							
G134.0	24.7	12.2	10.9							
G135.0	22.9	12.2	10.9							
G136.0	21.2	12.1	10.8							
G137.0	19.6	12.0	10.8							
G138.0	18.3	12.0	10.8							
G139.0	17.0	11.9	10.8							
G140.0	15.9	11.9	10.8							
G141.0	15.2	11.9	10.8							
G142.0	14.8	11.8	10.9							
G143.0	14.5	11.9	10.9							
G144.0	14.3	11.9	10.9							
G145.0	14.2	11.9	10.9							
G146.0	14.1	12.0	11.0							
G147.0	13.9	12.0	11.1							

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector:

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Tel:
Fax:

Candlepower Table (Continue 9)

Unit: cd

G\C	C300.0	C330.0	C360.0							
G148.0	13.9	12.1	11.1							
G149.0	13.8	12.1	11.2							
G150.0	13.7	12.2	11.3							
G151.0	13.6	12.3	11.4							
G152.0	13.6	12.3	11.5							
G153.0	13.5	12.4	11.6							
G154.0	13.4	12.4	11.6							
G155.0	13.3	12.5	11.8							
G156.0	13.2	12.6	11.8							
G157.0	13.2	12.7	11.9							
G158.0	13.2	12.7	12.0							
G159.0	13.2	12.8	12.1							
G160.0	13.2	12.9	12.1							
G161.0	13.2	12.9	12.2							
G162.0	13.3	13.0	12.3							
G163.0	13.4	13.1	12.4							
G164.0	13.4	13.1	12.5							
G165.0	13.4	13.1	12.6							
G166.0	13.5	13.1	12.6							
G167.0	13.5	13.2	12.7							
G168.0	13.6	13.3	12.8							
G169.0	13.6	13.3	12.8							
G170.0	13.6	13.3	12.9							
G171.0	13.5	13.3	12.9							
G172.0	13.5	13.3	13.0							
G173.0	13.5	13.3	13.0							
G174.0	13.5	13.3	13.1							
G175.0	13.4	13.3	13.1							
G176.0	13.4	13.3	13.2							
G177.0	13.3	13.2	13.2							
G178.0	13.2	13.2	13.2							
G179.0	13.2	13.2	13.3							
G180.0	13.2	13.2	13.3							

C Plane (°):0.0-360.0: 30.0
 Test Lab:
 Test Type: TYPE C
 Temperature: 25
 Operator:

Gamma Plane (°):0.0-180.0:1.0
 Test Device: GPM-1600L
 Distance: 8.690 m
 Humidity: 45-75
 Inspector: