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Report No.: 5 Test Time: 2016/8/15 18:04

Luminaire Property

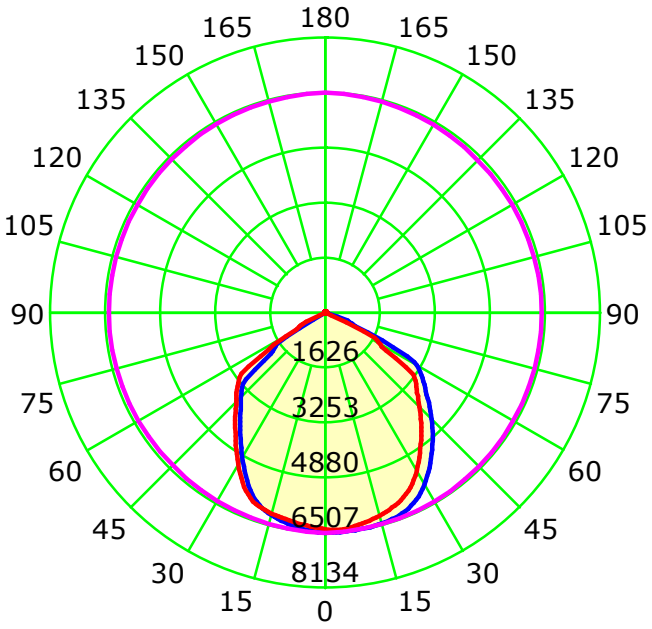
Luminaire Manufacturer:
Luminaire Description: HLB-I150Q-120 Voltage: 220V
Current: 0.659A Power: 138.4 W
Power Factor: 0.954

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 14526.0 lm
Measurement Flux: 14526 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Horizontal Diffuse Angle(50%): H107.6
Vertical Diffuse Angle(50%): V107.6
Luminaire Efficacy Rating (LER): 105 Central Intensity: 6507.45 cd
Max. Intensity: 6507.46 cd Pos of Max. Intensity: H0 V0

Picture Of Luminaire

Luminous Intensity Distribution Curve



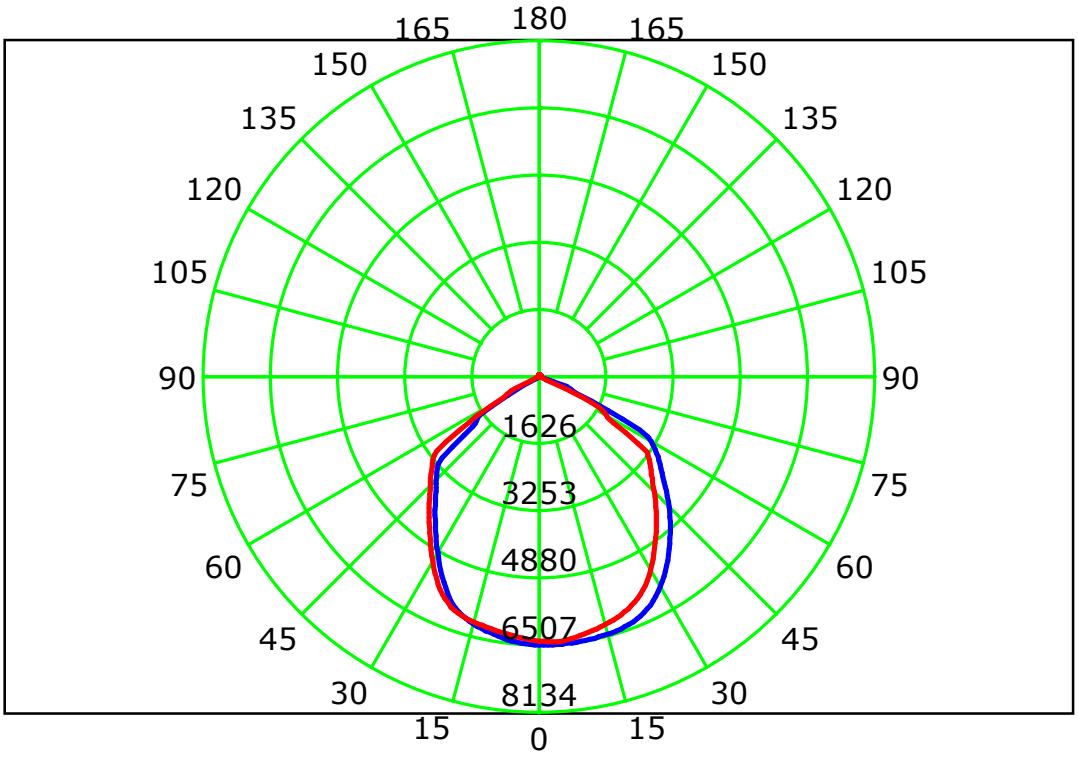
Unit: cd

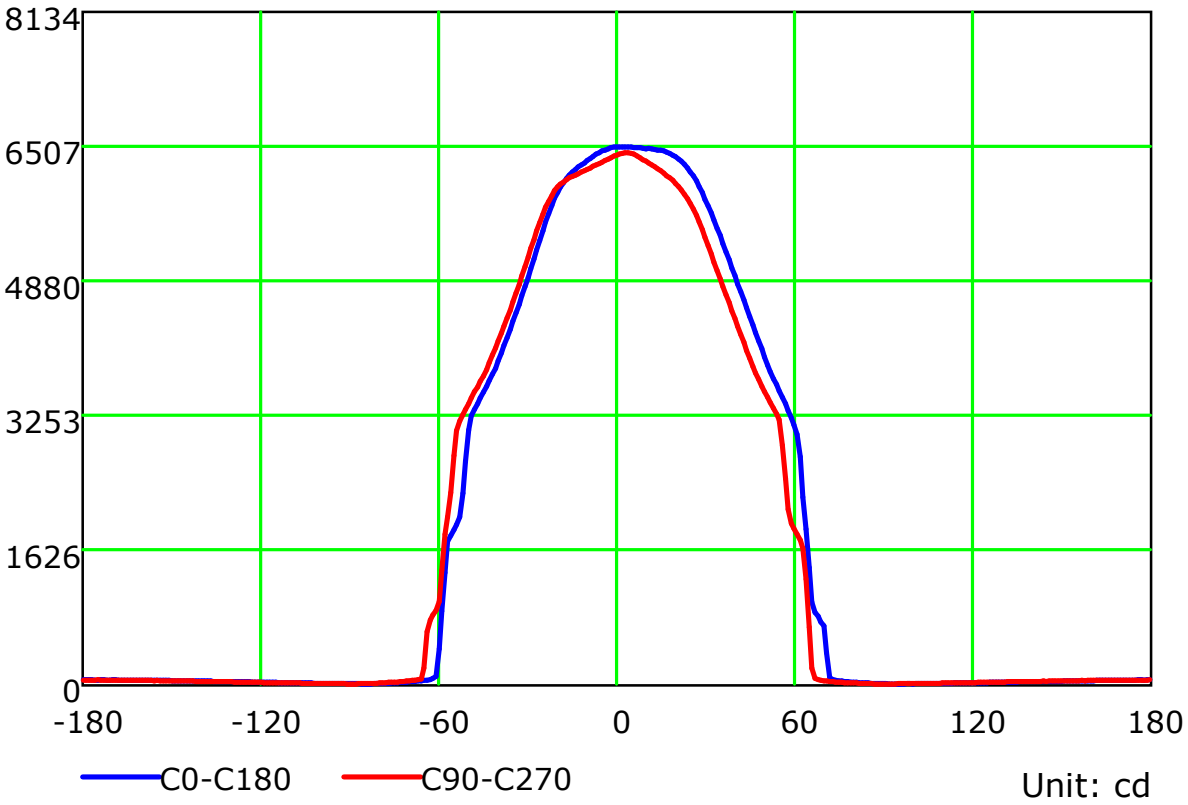
Average Diffuse Angle(50%): 107.6

C0-C180 C90-C270 G0

C Plane (°):0.0-360.0: 45.0 Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument Test Device: GPM-1800B
Test Type: TYPE C Distance: 7.984 m
Temperature: 28 Humidity: 28
Operator: Inspector:

Luminous Intensity Distribution Curve

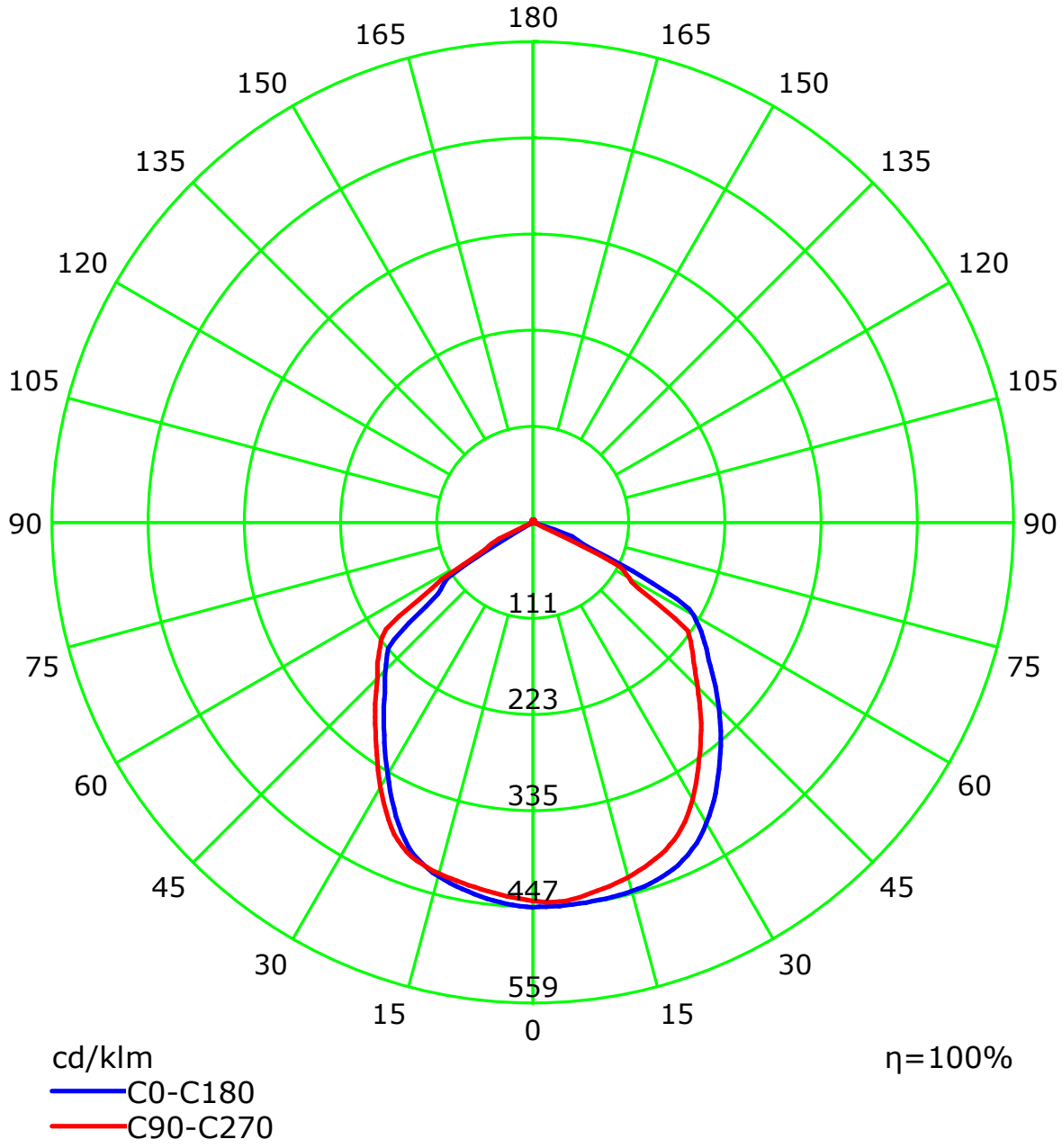




C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

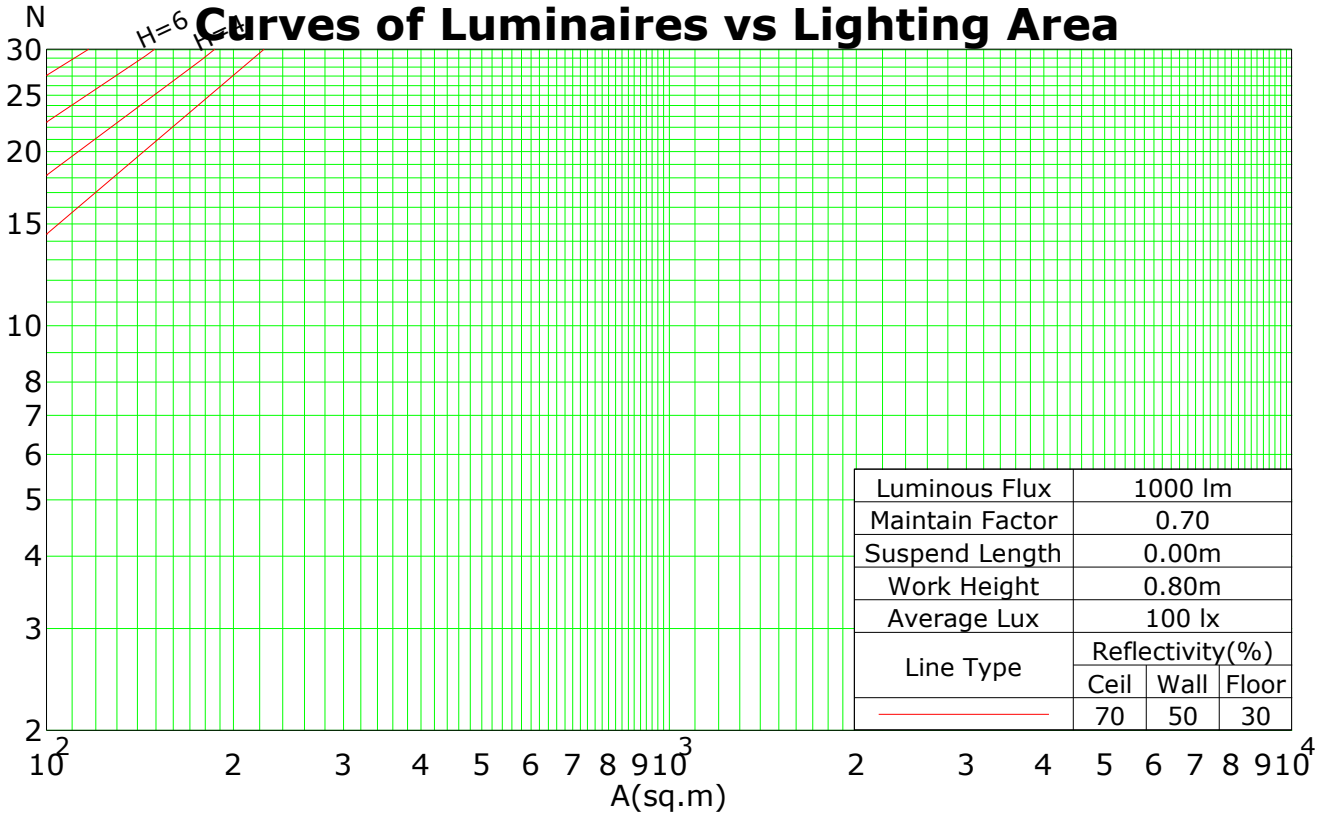
Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99
1	111	107	104	101	108	105	102	99	100	98	96	96	95	93	93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	83	80	84	81	78	76
3	95	86	79	73	92	84	78	72	81	76	71	78	74	70	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	68	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

Spacing Criteria (0-180): 1.23
Spacing Criteria (90-270): 1.22
Spacing Criteria (Diagonal): 1.31

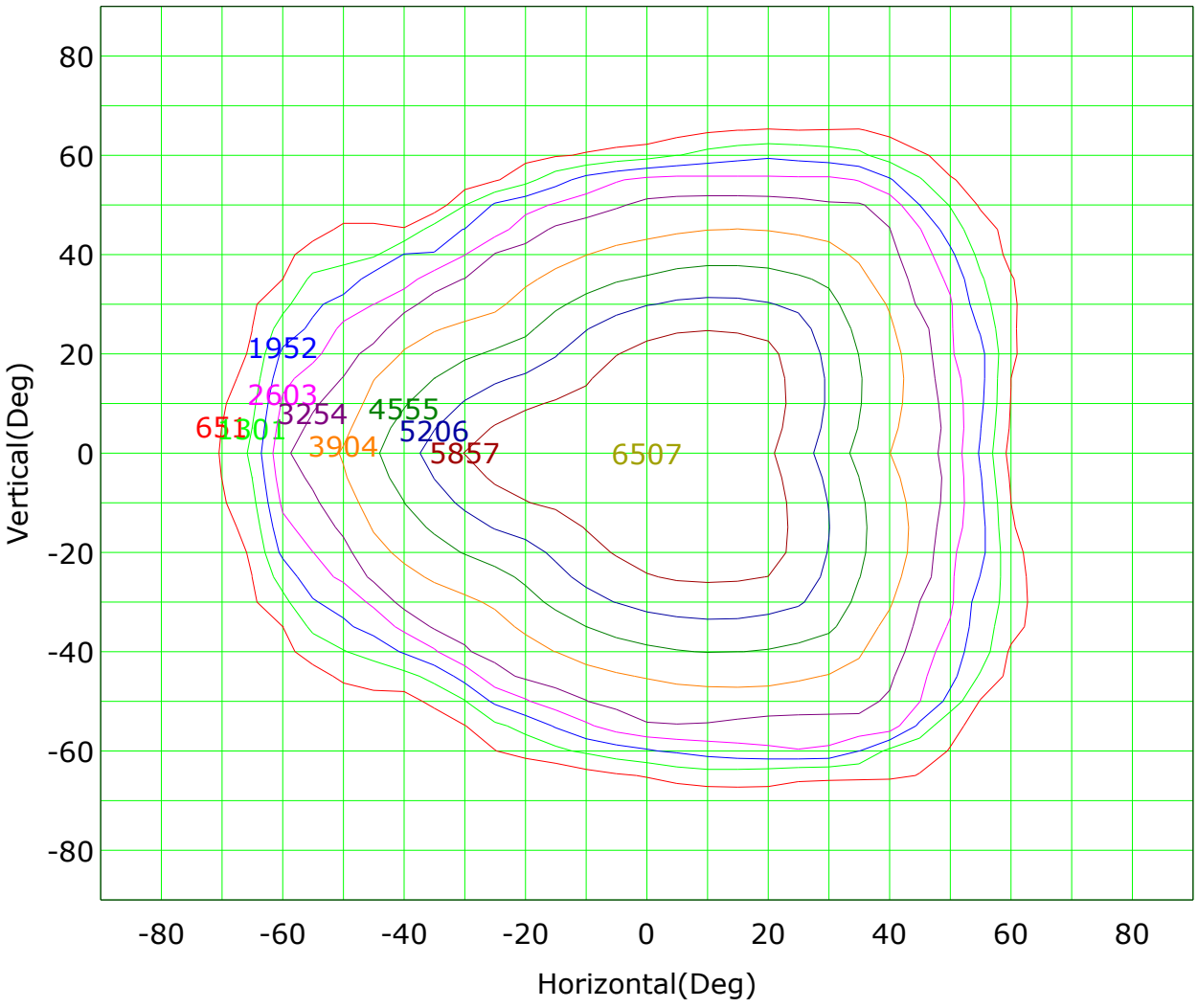
Curves of Luminaires vs Lighting Area



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Isocandela (rectangle)



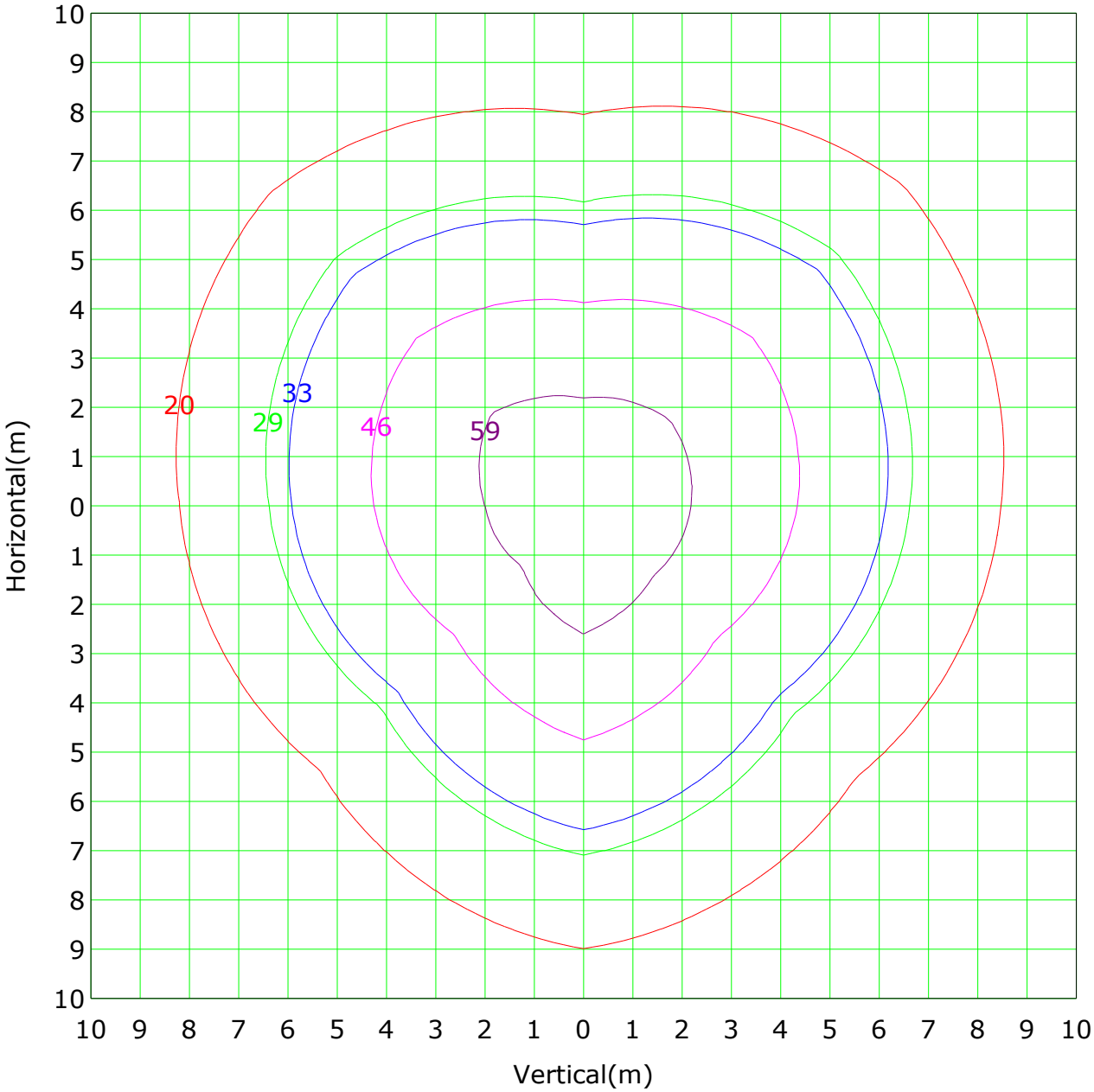
Imax (100%): 6507 cd

(10%): 651 cd	(20%): 1301 cd
(30%): 1952 cd	(40%): 2603 cd
(50%): 3254 cd	(60%): 3904 cd
(70%): 4555 cd	(80%): 5206 cd
(90%): 5857 cd	(100%): 6507 cd

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

IsoLux Plot



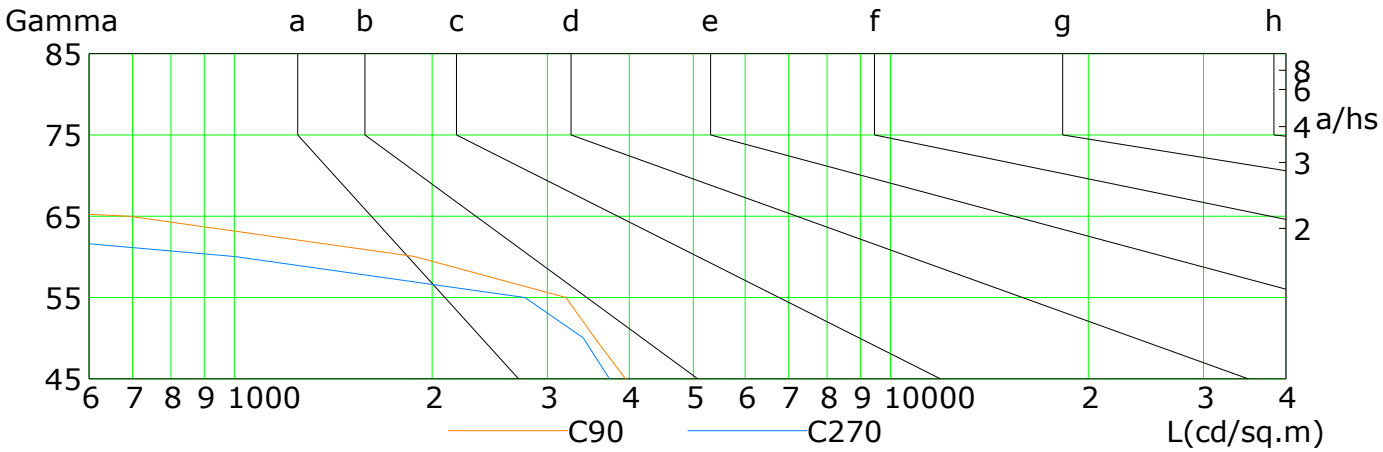
Mounting Height: 10.0m Max Lux(100%): 65.1 lx

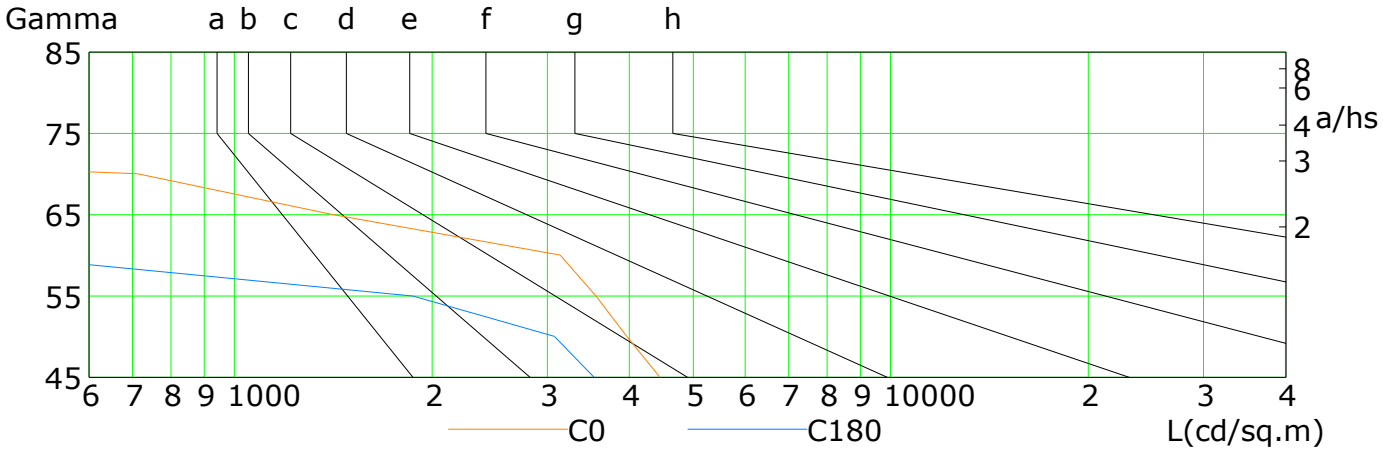
(30%): 19.5 lx
(45%): 29.3 lx
(50%): 32.5 lx
(70%): 45.6 lx
(90%): 58.6 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 7.984 m
Temperature: 28
Humidity: 28
Operator:
Inspector:

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
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
		a	b	c	d	e	f	g	h



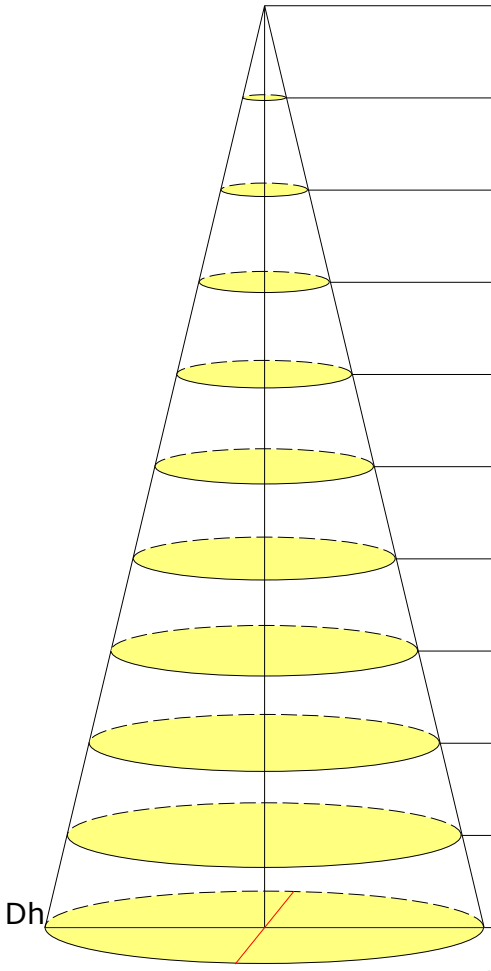


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4452	3962	3554	3139	1415	712	45	29	17
C90	3946	3542	3200	1884	692	43	29	17	9
C180	3534	3077	1870	433	48	32	20	10	7
C270	3731	3398	2772	1001	200	43	27	16	9

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Illuminance at a Distance



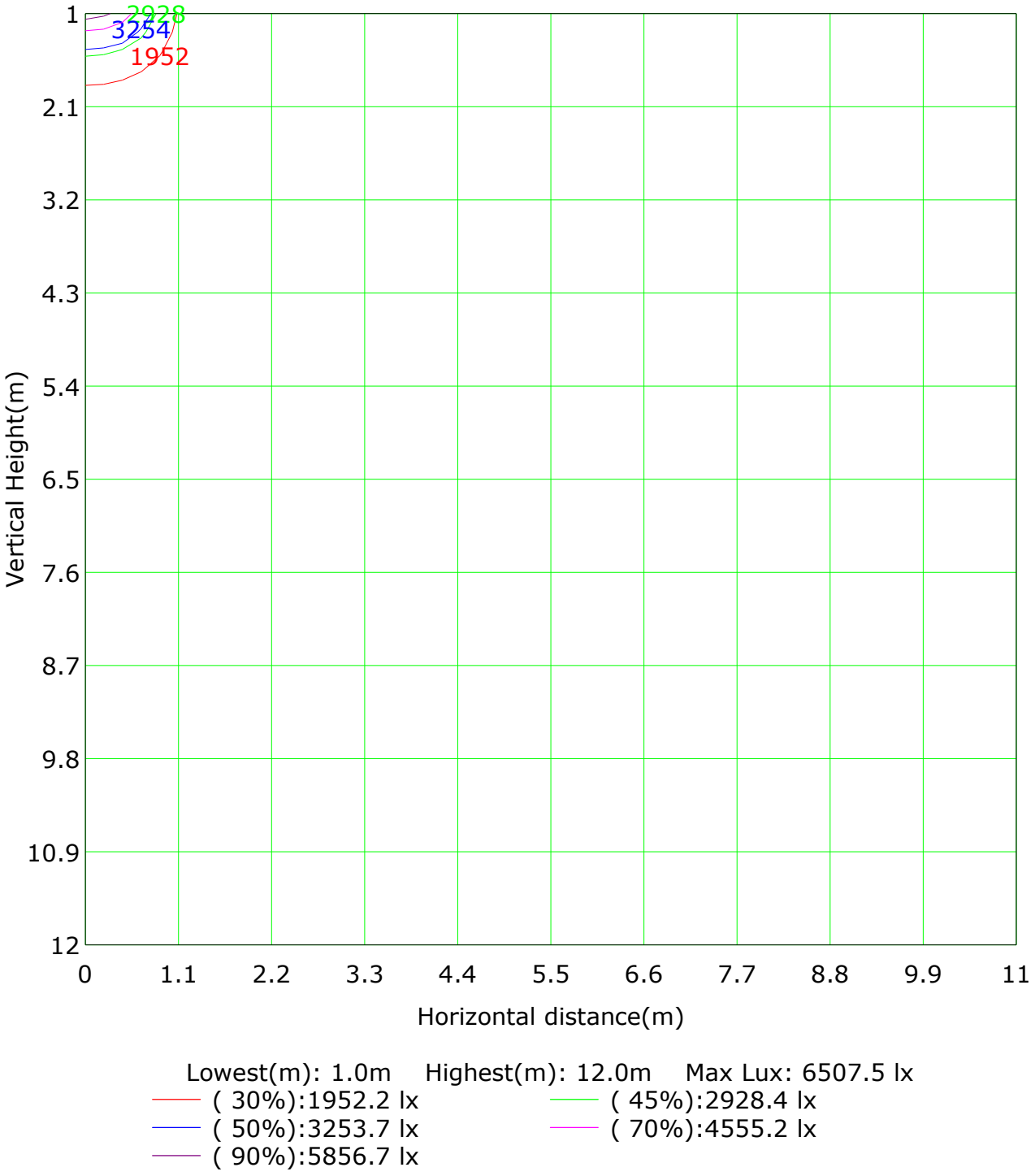
Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
1.0	6507.45	2.73/2.73	6.3	1115.60
2.0	1626.86	5.47/5.47	25.4	278.90
3.0	723.05	8.20/8.20	57.0	123.96
4.0	406.72	10.94/10.94	101.4	69.72
5.0	260.30	13.67/13.67	158.5	44.62
6.0	180.76	16.41/16.41	228.2	30.99
7.0	132.81	19.14/19.14	310.6	22.77
8.0	101.68	21.88/21.88	405.7	17.43
9.0	80.34	24.61/24.61	513.4	13.77
10.0	65.07	27.35/27.35	633.9	11.16

Beam Angle(B): H107.6 V107.6 Field Angle(F): H129.7 V129.1

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Vertical IsoLux Plot

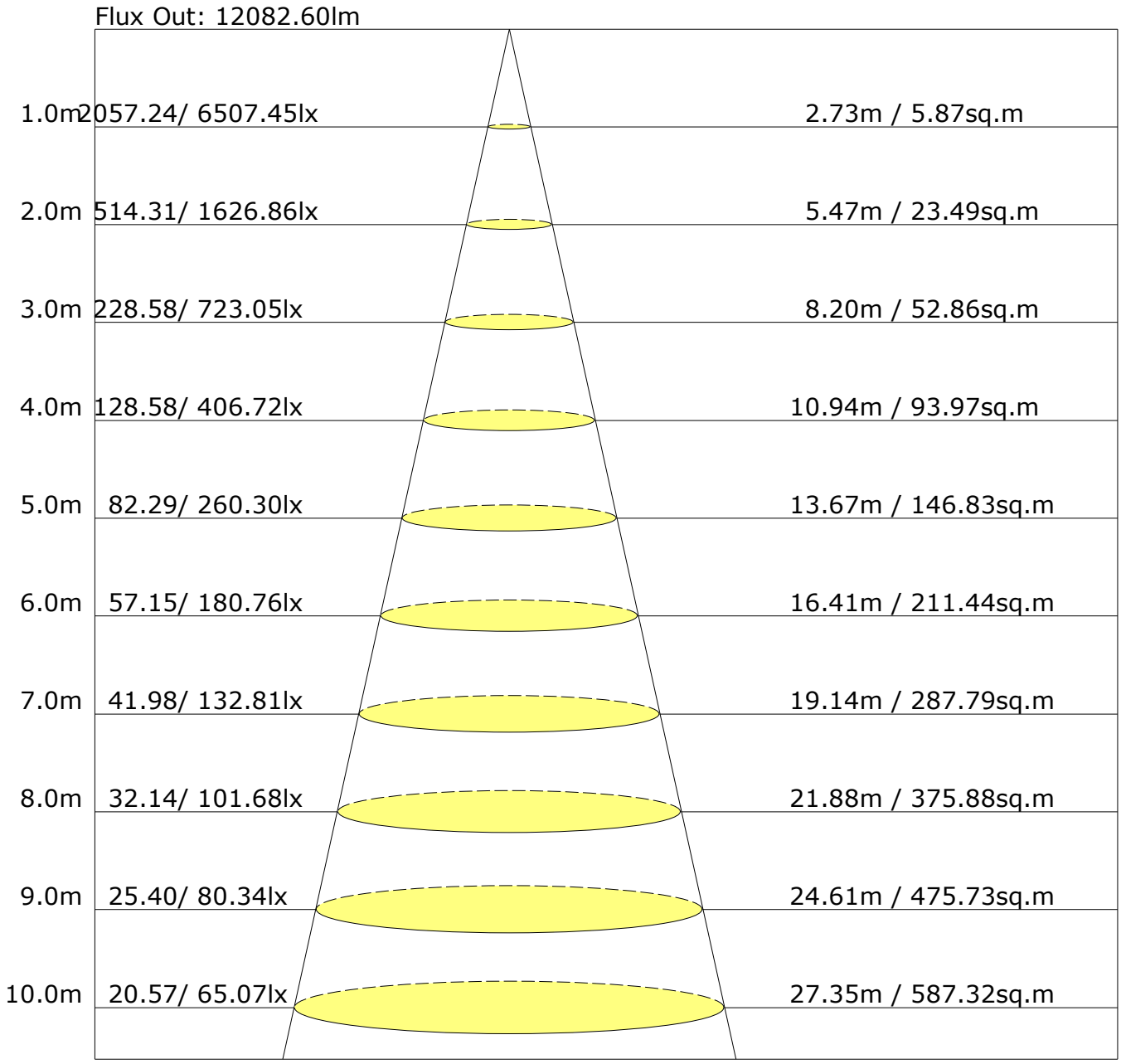


Lowest(m): 1.0m Highest(m): 12.0m Max Lux: 6507.5 lx

(30%):1952.2 lx
(45%):2928.4 lx
(50%):3253.7 lx
(70%):4555.2 lx
(90%):5856.7 lx

C Plane (°):0.0-360.0: 45.0
Gamma Plane (°):0.0-180.0:1.0
Test Lab: Inventfine instrument
Test Device: GPM-1800B
Test Type: TYPE C
Distance: 7.984 m
Temperature: 28
Humidity: 28
Operator:
Inspector:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

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	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
3H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=4H Y=2H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
3H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=8H Y=4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
12H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
X=12H Y=4H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
6H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$
8H	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$	1.$

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
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	0.65	0.76	0.83	0.88	0.94	0.99	1.01	1.05	1.07
	0.30		0.58	0.69	0.77	0.82	0.89	0.94	0.97	1.02	1.05
	0.20		0.53	0.64	0.72	0.78	0.85	0.90	0.94	0.99	1.02
0.50	0.50	0.20	0.63	0.73	0.80	0.85	0.91	0.95	0.98	1.01	1.03
	0.30		0.57	0.68	0.75	0.80	0.87	0.91	0.94	0.98	1.01
	0.20		0.52	0.63	0.71	0.76	0.83	0.88	0.92	0.96	0.99
0.30	0.50	0.20	0.61	0.72	0.78	0.82	0.88	0.92	0.94	0.97	0.99
	0.30		0.56	0.67	0.74	0.78	0.85	0.89	0.91	0.95	0.97
	0.20		0.52	0.63	0.70	0.75	0.82	0.86	0.89	0.93	0.96
0.00	0.00	0.00	0.50	0.60	0.67	0.72	0.78	0.82	0.85	0.89	0.91

Rating:140W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)							SHR NOM = 1.25				
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	0.88	0.70	0.58	0.50	0.39	0.32	0.27	0.20	0.16
	0.30		0.74	0.60	0.51	0.44	0.35	0.29	0.25	0.19	0.16
	0.20		0.63	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15
0.50	0.50	0.20	0.85	0.67	0.55	0.47	0.36	0.33	0.25	0.19	0.15
	0.30		0.72	0.58	0.49	0.42	0.33	0.27	0.23	0.18	0.15
	0.20		0.62	0.51	0.44	0.38	0.31	0.26	0.22	0.17	0.14
0.30	0.50	0.20	0.82	0.64	0.53	0.45	0.34	0.28	0.24	0.18	0.14
	0.30		0.70	0.56	0.47	0.40	0.32	0.26	0.22	0.17	0.14
	0.20		0.61	0.50	0.43	0.37	0.30	0.24	0.21	0.16	0.13
0.00	0.00	0.00	0.50	0.39	0.32	0.28	0.21	0.17	0.15	0.11	0.09

Rating:140W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25								
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	0.17	0.18	0.18	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.12	0.13	0.15	0.16	0.17	0.18	0.20	0.20
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.18	0.19
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.30	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Rating:140W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Candlepower Table

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G0.0	6507.5	6425.6	6400.5	6391.4	6507.5	6425.6	6400.5	6391.4	6507.5	
G1.0	6505.8	6425.9	6415.4	6407.2	6500.2	6422.4	6391.4	6373.5	6505.8	
G2.0	6506.5	6429.4	6427.0	6414.9	6494.6	6422.4	6374.6	6358.1	6506.5	
G3.0	6505.4	6427.5	6432.6	6417.0	6480.0	6419.8	6357.8	6328.5	6505.4	
G4.0	6504.6	6425.2	6433.6	6422.6	6466.0	6416.1	6339.0	6299.8	6504.6	
G5.0	6502.3	6416.8	6428.9	6420.5	6453.4	6414.7	6321.5	6280.5	6502.3	
G6.0	6495.6	6396.3	6415.6	6410.7	6435.2	6419.4	6304.2	6249.9	6495.6	
G7.0	6494.2	6377.9	6397.5	6408.6	6417.0	6427.0	6289.6	6218.7	6494.2	
G8.0	6495.1	6352.3	6374.6	6411.0	6390.0	6430.1	6271.9	6193.8	6495.1	
G9.0	6484.6	6322.6	6348.5	6404.2	6363.7	6431.9	6251.1	6166.8	6484.6	
G10.0	6483.0	6282.1	6329.6	6397.5	6339.4	6432.9	6234.8	6127.4	6483.0	
G11.0	6484.6	6238.8	6309.8	6394.7	6312.6	6436.4	6217.3	6095.2	6484.6	
G12.0	6479.0	6186.1	6286.5	6397.5	6288.6	6450.1	6200.1	6062.8	6479.0	
G13.0	6471.1	6132.7	6265.6	6400.7	6262.1	6465.0	6181.4	6015.3	6471.1	
G14.0	6466.7	6072.6	6241.6	6401.2	6231.3	6475.8	6165.4	5971.5	6466.7	
G15.0	6461.8	6012.3	6214.3	6394.7	6199.1	6480.0	6150.4	5924.6	6461.8	
G16.0	6454.8	5949.8	6185.9	6394.2	6162.3	6485.1	6133.0	5863.8	6454.8	
G17.0	6443.6	5876.4	6157.7	6396.5	6120.1	6485.3	6110.8	5797.9	6443.6	
G18.0	6424.5	5801.8	6131.6	6394.9	6072.8	6484.8	6079.8	5723.8	6424.5	
G19.0	6405.1	5727.5	6098.9	6389.1	6016.2	6483.2	6053.5	5644.5	6405.1	
G20.0	6384.9	5648.3	6059.6	6382.3	5955.9	6466.2	6020.9	5554.8	6384.9	
G21.0	6357.8	5569.0	6025.1	6370.0	5880.1	6438.9	5978.7	5462.5	6357.8	
G22.0	6329.9	5485.1	5981.7	6355.7	5796.5	6400.7	5911.6	5364.2	6329.9	
G23.0	6297.3	5391.2	5932.3	6336.4	5698.6	6355.7	5848.7	5256.3	6297.3	
G24.0	6249.0	5300.1	5879.7	6312.4	5594.2	6310.1	5775.0	5150.0	6249.0	
G25.0	6204.3	5205.0	5820.0	6279.5	5487.0	6254.8	5689.7	5048.7	6204.3	
G26.0	6155.6	5122.5	5750.6	6242.0	5376.3	6194.0	5589.5	4941.9	6155.6	
G27.0	6095.0	5023.0	5675.8	6200.1	5260.0	6129.7	5484.9	4836.8	6095.0	
G28.0	6025.1	4924.5	5593.7	6151.4	5151.2	6056.5	5384.0	4738.7	6025.1	
G29.0	5951.0	4834.5	5503.1	6089.9	5034.4	5980.8	5277.7	4633.2	5951.0	
G30.0	5870.3	4743.4	5411.0	6025.3	4922.8	5895.5	5168.7	4541.1	5870.3	
G31.0	5788.8	4649.7	5310.1	5953.3	4814.5	5815.6	5057.8	4439.5	5788.8	
G32.0	5706.7	4561.9	5212.5	5881.3	4707.5	5731.2	4949.6	4342.1	5706.7	
G33.0	5617.0	4464.2	5108.8	5796.5	4601.5	5642.0	4837.8	4250.5	5617.0	
G34.0	5523.6	4370.1	5011.4	5717.9	4498.2	5548.8	4736.4	4152.9	5523.6	
G35.0	5430.8	4279.0	4906.7	5626.8	4393.8	5458.3	4630.8	4059.4	5430.8	
G36.0	5332.3	4181.8	4812.1	5531.3	4293.6	5359.8	4525.0	3964.4	5332.3	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G37.0	5232.5	4088.3	4715.9	5439.0	4197.6	5260.0	4431.8	3872.1	5232.5	
G38.0	5138.4	3989.3	4619.6	5344.4	4103.7	5164.0	4337.7	3779.8	5138.4	
G39.0	5036.8	3896.1	4522.7	5246.7	4010.3	5052.4	4246.6	3692.6	5036.8	
G40.0	4945.2	3801.9	4428.6	5154.5	3914.5	4945.7	4156.4	3620.9	4945.2	
G41.0	4844.5	3715.9	4334.9	5046.3	3826.2	4845.5	4074.6	3549.1	4844.5	
G42.0	4751.3	3642.1	4235.6	4944.5	3749.7	4738.3	3982.5	3474.8	4751.3	
G43.0	4653.0	3560.1	4141.2	4846.1	3673.5	4639.9	3895.9	3404.6	4653.0	
G44.0	4555.3	3490.4	4038.5	4752.7	3606.6	4544.6	3808.9	3330.7	4555.3	
G45.0	4452.1	3417.4	3945.9	4648.8	3533.7	4445.3	3731.3	3259.0	4452.1	
G46.0	4351.0	3344.5	3848.1	4549.7	3463.6	4344.9	3669.3	3187.7	4351.0	
G47.0	4256.8	3275.1	3765.8	4447.2	3396.2	4256.8	3602.0	3067.9	4256.8	
G48.0	4159.2	3199.3	3691.2	4351.2	3326.3	4161.7	3542.6	2687.6	4159.2	
G49.0	4062.7	3109.4	3608.8	4254.7	3251.7	4071.3	3466.8	2299.1	4062.7	
G50.0	3961.8	2915.7	3542.3	4152.4	3077.2	3979.3	3397.6	1973.6	3961.8	
G51.0	3863.2	2501.4	3475.2	4059.9	2698.3	3891.4	3329.6	1881.0	3863.2	
G52.0	3782.1	2064.4	3411.4	3969.3	2311.7	3812.2	3264.8	1807.9	3782.1	
G53.0	3698.5	1867.8	3346.1	3876.7	2022.5	3746.5	3190.9	1731.2	3698.5	
G54.0	3628.6	1738.2	3272.5	3785.9	1932.8	3681.2	3071.8	1657.6	3628.6	
G55.0	3554.2	1329.4	3200.2	3716.2	1869.9	3613.4	2772.2	1582.8	3554.2	
G56.0	3476.9	944.0	2893.6	3647.4	1799.5	3550.5	2323.8	1192.4	3476.9	
G57.0	3393.2	835.4	2494.4	3587.3	1729.3	3482.0	2024.4	417.6	3393.2	
G58.0	3312.8	755.3	2121.1	3520.2	1353.9	3417.2	1817.0	92.8	3312.8	
G59.0	3224.0	691.9	1949.1	3451.4	889.7	3341.9	1384.9	70.4	3224.0	
G60.0	3138.9	339.1	1883.6	3382.0	432.7	3261.5	1001.3	57.8	3138.9	
G61.0	3022.2	75.3	1813.9	3306.0	99.0	3114.3	893.5	51.5	3022.2	
G62.0	2755.1	57.8	1749.4	3230.3	70.1	2758.2	840.8	46.4	2755.1	
G63.0	2269.7	49.6	1649.9	3143.1	59.2	2305.6	776.5	41.7	2269.7	
G64.0	1878.7	44.5	1272.4	3045.5	52.7	2031.6	642.9	37.3	1878.7	
G65.0	1415.2	38.5	692.3	2777.3	48.0	1917.2	200.4	35.7	1415.2	
G66.0	993.4	35.2	196.4	2111.5	42.7	1587.4	69.2	32.9	993.4	
G67.0	871.1	33.1	70.8	1295.0	39.4	1154.9	58.0	30.1	871.1	
G68.0	821.7	30.5	58.0	981.5	38.2	931.9	52.0	28.2	821.7	
G69.0	756.4	27.7	48.5	908.8	35.2	859.7	47.8	25.6	756.4	
G70.0	711.9	25.2	42.7	849.4	32.4	794.9	43.1	22.8	711.9	
G71.0	384.5	22.8	39.2	799.1	28.2	576.3	39.4	20.5	384.5	
G72.0	80.6	20.7	35.7	745.2	25.6	134.0	36.1	18.6	80.6	
G73.0	60.4	18.4	32.4	631.0	23.3	66.4	33.3	16.8	60.4	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Candlepower Table (Continue 2)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G74.0	52.4	16.3	30.1	171.5	21.9	57.8	30.1	14.9	52.4	
G75.0	45.2	14.9	28.7	62.7	19.8	52.9	27.3	13.5	45.2	
G76.0	39.8	13.8	25.4	53.6	17.7	48.9	25.9	11.9	39.8	
G77.0	37.5	11.6	23.1	47.5	14.9	45.0	23.3	10.5	37.5	
G78.0	33.3	10.7	22.1	41.5	13.1	41.7	21.0	9.6	33.3	
G79.0	30.5	9.6	19.8	36.6	11.6	37.8	17.7	8.4	30.5	
G80.0	29.1	8.2	16.5	34.3	10.0	34.5	15.9	7.9	29.1	
G81.0	24.7	7.7	15.9	31.7	10.0	32.6	15.1	7.2	24.7	
G82.0	22.6	7.7	14.4	28.2	8.4	29.6	13.5	7.0	22.6	
G83.0	20.3	7.5	12.8	25.4	7.5	25.6	11.2	7.0	20.3	
G84.0	19.3	6.5	10.3	23.3	7.0	22.8	10.0	7.5	19.3	
G85.0	17.2	6.8	9.3	20.7	7.2	20.5	8.6	7.5	17.2	
G86.0	14.4	7.7	9.3	17.7	7.5	17.9	7.9	7.9	14.4	
G87.0	13.5	8.4	7.7	15.6	7.9	17.5	8.2	8.4	13.5	
G88.0	12.4	7.5	6.8	15.1	7.9	15.4	7.5	9.3	12.4	
G89.0	9.3	9.1	7.2	13.5	7.9	12.4	6.1	9.8	9.3	
G90.0	8.4	10.0	7.2	10.7	9.1	10.3	7.0	9.6	8.4	
G91.0	8.9	9.3	5.8	10.9	9.8	9.3	6.8	10.0	8.9	
G92.0	6.8	10.9	7.5	9.8	10.0	9.6	8.2	10.7	6.8	
G93.0	6.1	10.9	7.7	7.5	10.0	7.2	7.9	11.9	6.1	
G94.0	7.2	10.7	7.2	6.8	10.9	6.1	8.4	11.6	7.2	
G95.0	7.5	10.9	8.6	7.2	11.6	5.4	8.4	12.1	7.5	
G96.0	6.5	13.1	9.3	6.8	11.9	7.5	9.1	12.6	6.5	
G97.0	6.1	13.5	9.3	5.6	12.1	7.9	10.3	13.1	6.1	
G98.0	8.6	12.8	8.4	6.1	12.8	7.9	10.7	14.9	8.6	
G99.0	8.9	13.5	10.5	7.9	13.3	8.2	11.4	15.9	8.9	
G100.0	7.7	15.4	9.8	6.8	14.4	6.8	11.2	16.1	7.7	
G101.0	9.8	14.7	11.6	8.4	15.1	7.2	11.4	15.9	9.8	
G102.0	10.0	16.1	11.9	9.1	15.1	9.3	13.1	16.5	10.0	
G103.0	8.6	17.7	10.7	7.9	16.3	10.0	13.3	18.2	8.6	
G104.0	11.4	17.0	13.1	8.2	16.5	8.9	13.3	18.9	11.4	
G105.0	11.9	17.7	12.4	10.3	17.0	9.1	14.0	19.6	11.9	
G106.0	10.5	19.6	13.1	9.1	17.9	11.4	14.9	18.9	10.5	
G107.0	10.9	18.6	14.7	10.9	18.2	11.9	15.9	19.3	10.9	
G108.0	13.1	19.3	15.4	11.6	19.3	12.6	16.1	21.4	13.1	
G109.0	14.0	21.4	14.2	10.5	20.0	11.2	16.3	22.1	14.0	
G110.0	12.8	22.1	16.8	11.2	20.7	11.6	17.0	22.6	12.8	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Candlepower Table (Continue 3)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G111.0	14.9	21.2	17.2	13.5	21.2	12.4	17.7	23.3	14.9	
G112.0	15.4	23.5	16.8	12.4	21.4	12.6	18.6	22.4	15.4	
G113.0	14.4	22.4	18.6	14.2	22.1	15.1	19.3	23.3	14.4	
G114.0	17.0	23.3	17.9	15.4	23.1	14.0	19.1	25.2	17.0	
G115.0	15.9	25.2	18.4	13.8	24.0	14.2	19.8	26.1	15.9	
G116.0	16.8	26.3	20.5	16.5	24.0	15.1	21.0	25.4	16.8	
G117.0	18.6	25.4	19.6	15.1	24.7	17.2	21.4	26.3	18.6	
G118.0	17.7	28.0	20.3	15.9	26.1	17.9	21.9	28.7	17.7	
G119.0	18.6	28.7	22.4	18.2	27.0	17.0	22.6	29.6	18.6	
G120.0	20.5	27.7	21.7	17.2	28.0	17.5	23.3	30.5	20.5	
G121.0	21.2	28.2	22.1	17.7	28.0	19.3	24.5	29.4	21.2	
G122.0	20.7	31.0	24.2	20.3	28.4	20.3	24.9	30.1	20.7	
G123.0	22.6	31.5	23.3	18.9	29.6	20.5	25.4	30.8	22.6	
G124.0	23.1	30.5	24.2	19.6	31.5	19.6	25.9	33.1	23.1	
G125.0	22.6	33.1	26.3	21.9	32.2	20.3	27.0	33.8	22.6	
G126.0	24.5	31.9	25.6	21.0	31.9	22.1	27.5	32.6	24.5	
G127.0	24.0	34.3	28.0	23.1	34.0	22.8	28.2	33.6	24.0	
G128.0	26.1	32.9	26.8	21.9	34.3	22.4	29.1	35.9	26.1	
G129.0	25.6	33.6	29.8	24.5	35.2	24.5	30.1	36.6	25.6	
G130.0	26.3	36.1	30.1	25.6	34.3	25.4	31.0	35.7	26.3	
G131.0	28.2	35.2	29.1	24.2	35.0	25.6	31.5	35.9	28.2	
G132.0	28.9	37.8	31.2	24.9	36.8	25.6	32.6	38.7	28.9	
G133.0	28.7	38.5	31.0	27.7	37.3	27.5	33.3	39.4	28.7	
G134.0	30.5	37.0	33.1	26.8	38.2	28.2	34.0	38.2	30.5	
G135.0	30.8	37.8	33.8	27.3	37.0	28.7	34.7	38.9	30.8	
G136.0	31.7	38.5	32.9	27.7	38.0	28.4	35.4	41.3	31.7	
G137.0	31.5	38.7	35.0	28.4	39.6	29.4	36.1	41.3	31.5	
G138.0	32.2	41.0	35.7	30.8	40.3	31.0	36.8	40.3	32.2	
G139.0	33.6	40.1	34.7	30.1	39.6	30.5	37.0	40.8	33.6	
G140.0	33.3	42.0	36.8	32.2	41.3	31.5	38.0	42.9	33.3	
G141.0	34.5	41.0	36.1	32.4	42.0	32.9	38.2	43.1	34.5	
G142.0	35.2	41.7	36.6	31.7	40.8	32.9	38.2	42.2	35.2	
G143.0	35.2	43.6	38.5	34.0	41.3	33.3	38.9	42.9	35.2	
G144.0	35.4	44.0	38.9	34.5	43.6	34.0	39.8	44.5	35.4	
G145.0	36.6	43.6	37.8	33.3	44.0	35.2	40.5	45.7	36.6	
G146.0	36.8	45.4	39.8	35.2	43.1	35.2	40.8	44.5	36.8	
G147.0	37.8	45.9	39.2	36.1	43.6	35.7	41.3	45.2	37.8	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector:

Candlepower Table (Continue 4)

Unit: cd

G\C	C0.0	C45.0	C90.0	C135.0	C180.0	C225.0	C270.0	C315.0	C360.0	
G148.0	38.2	45.4	40.1	34.3	46.1	36.1	42.7	46.8	38.2	
G149.0	38.5	47.1	42.0	35.2	46.4	37.0	43.1	47.5	38.5	
G150.0	38.7	46.6	41.3	37.5	45.9	37.0	44.0	48.5	38.7	
G151.0	39.2	46.6	42.0	36.6	47.8	38.2	43.8	48.5	39.2	
G152.0	40.1	48.5	43.6	38.7	47.1	38.7	43.8	48.0	40.1	
G153.0	40.8	48.0	43.3	37.8	47.8	39.2	44.7	48.5	40.8	
G154.0	41.5	49.4	45.2	38.5	49.9	39.8	46.1	49.9	41.5	
G155.0	42.0	49.9	45.7	40.5	50.1	40.5	46.8	49.9	42.0	
G156.0	43.1	49.2	44.7	41.5	48.9	40.8	46.1	49.4	43.1	
G157.0	44.0	50.1	46.6	40.8	49.4	41.5	46.6	49.6	44.0	
G158.0	44.5	49.9	45.9	42.9	51.3	42.2	48.0	50.1	44.5	
G159.0	45.2	50.6	46.6	43.6	50.1	42.9	47.3	50.3	45.2	
G160.0	45.7	51.3	48.0	42.9	50.8	43.1	47.3	50.3	45.7	
G161.0	46.4	50.8	47.3	45.0	52.7	44.0	48.9	51.3	46.4	
G162.0	47.1	51.3	48.9	44.0	51.5	44.0	48.2	51.5	47.1	
G163.0	47.5	51.5	48.9	46.1	52.0	45.2	48.9	51.5	47.5	
G164.0	48.7	52.4	48.7	46.8	54.1	45.7	48.9	52.0	48.7	
G165.0	48.9	52.4	48.9	47.3	52.4	46.1	50.8	52.2	48.9	
G166.0	50.1	52.9	49.6	48.0	52.7	46.4	50.6	52.4	50.1	
G167.0	49.9	53.4	50.8	47.3	52.9	47.1	49.4	52.4	49.9	
G168.0	50.1	53.4	51.0	47.8	53.1	47.3	49.6	53.1	50.1	
G169.0	51.5	54.1	51.0	107.4	54.8	48.5	50.6	53.1	51.5	
G170.0	51.0	54.3	52.2	106.3	55.2	49.2	50.6	53.4	51.0	
G171.0	51.3	54.5	52.4	106.5	53.6	49.9	51.0	54.1	51.3	
G172.0	52.7	54.5	52.7	107.2	53.4	50.1	51.5	54.5	52.7	
G173.0	53.4	54.5	53.1	107.4	55.2	50.8	53.6	53.6	53.4	
G174.0	53.6	54.3	52.7	108.8	55.0	52.0	53.8	53.6	53.6	
G175.0	53.4	54.1	52.9	108.1	53.8	52.4	54.5	54.5	53.4	
G176.0	54.5	54.3	53.1	109.1	53.8	53.4	52.7	54.3	54.5	
G177.0	55.0	54.5	53.4	109.5	55.7	53.6	52.9	54.5	55.0	
G178.0	54.1	54.1	53.8	109.3	54.3	53.8	52.9	55.0	54.1	
G179.0	55.5	53.8	53.8	110.2	54.5	53.4	53.1	53.1	55.5	
G180.0	55.5	54.5	54.3	110.0	55.2	54.8	53.4	54.8	55.5	

C Plane (°):0.0-360.0: 45.0
Test Lab: Inventfine instrument
Test Type: TYPE C
Temperature: 28
Operator:

Gamma Plane (°):0.0-180.0:1.0
Test Device: GPM-1800B
Distance: 7.984 m
Humidity: 28
Inspector: