

Report No.:

Test Time: 2024-06-04 11:49

Luminaire Property

Luminaire Manufacturer:

Luminaire Category:

Lamp Catalog: 3000K

Number of Lamps:

Luminous Length (mm): 73

Luminous Height (mm):

Current: 0.1100 A

Power Factor: 0.4940

Luminaire Description: SF.C1073A

Lamp Description: RA90

Lumens per Lamp:

Luminous Width (mm): 73

Voltage: 230.90 V

Power: 12.56 W

Photometric Results

CIE Class: Direct

Measurement Flux: 1155 lm

Downward Ratio: 100%

Horizontal Diffuse Angle(50%): H51.1

Vertical Diffuse Angle(50%): V51.2

Luminous Efficacy (lm/w): 91.96

Max. Intensity: 1619.54 cd

S/MH(C0/C180): 0.79

Total Rated Lamp Lumens: 1155.0 lm

Efficiency: 100%

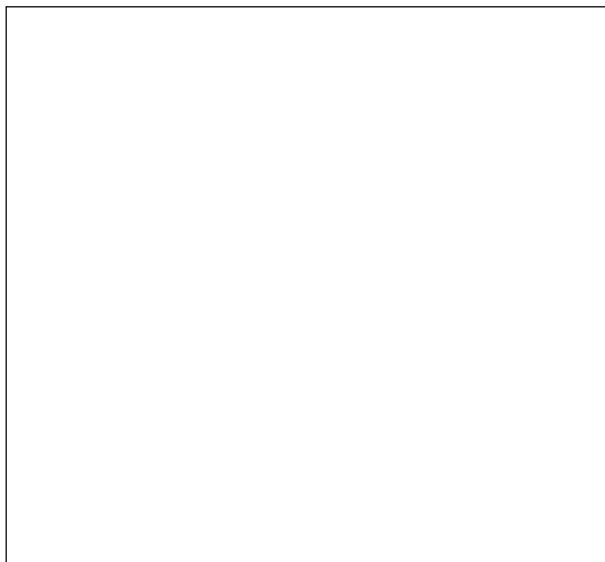
Upward Ratio: 0%

C0r0 Intensity: 1619.53 cd

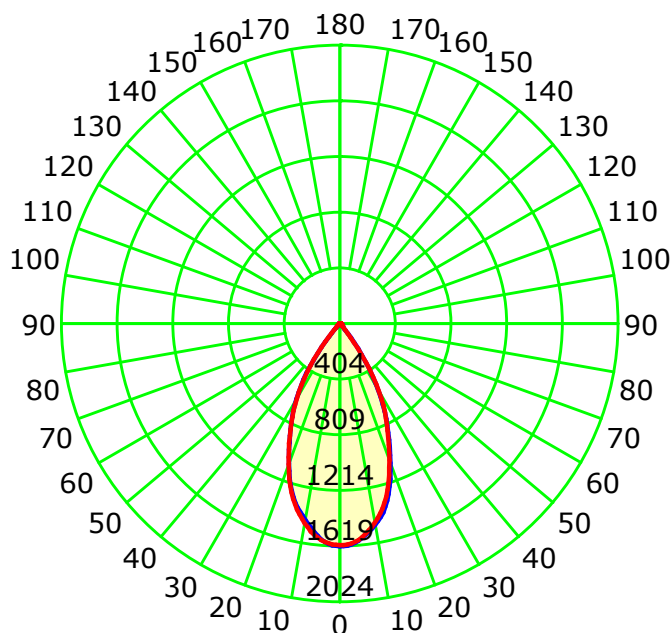
Pos of Max. Intensity: H0 V0

S/MH(C90/C270): 0.79

Picture Of Luminaire



Luminous Intensity Distribution Curve



Unit: cd

Average Diffuse Angle(50%): 51.2°

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

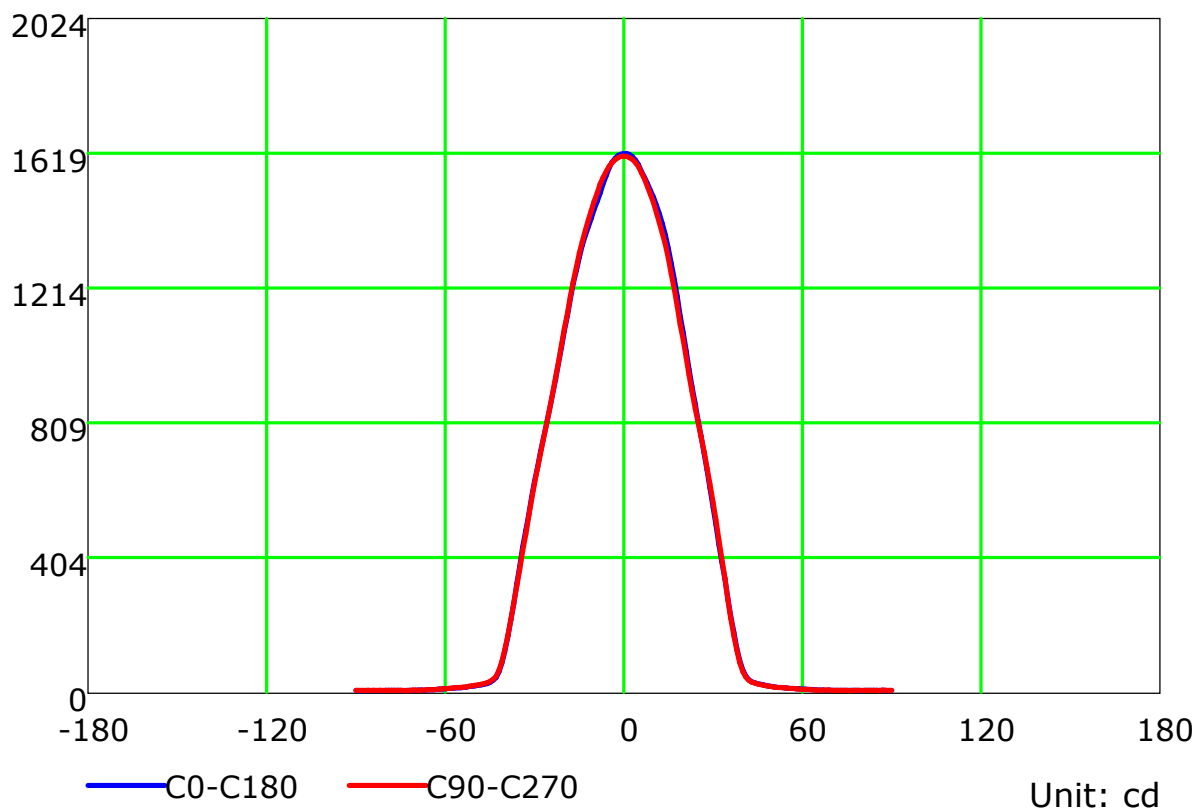
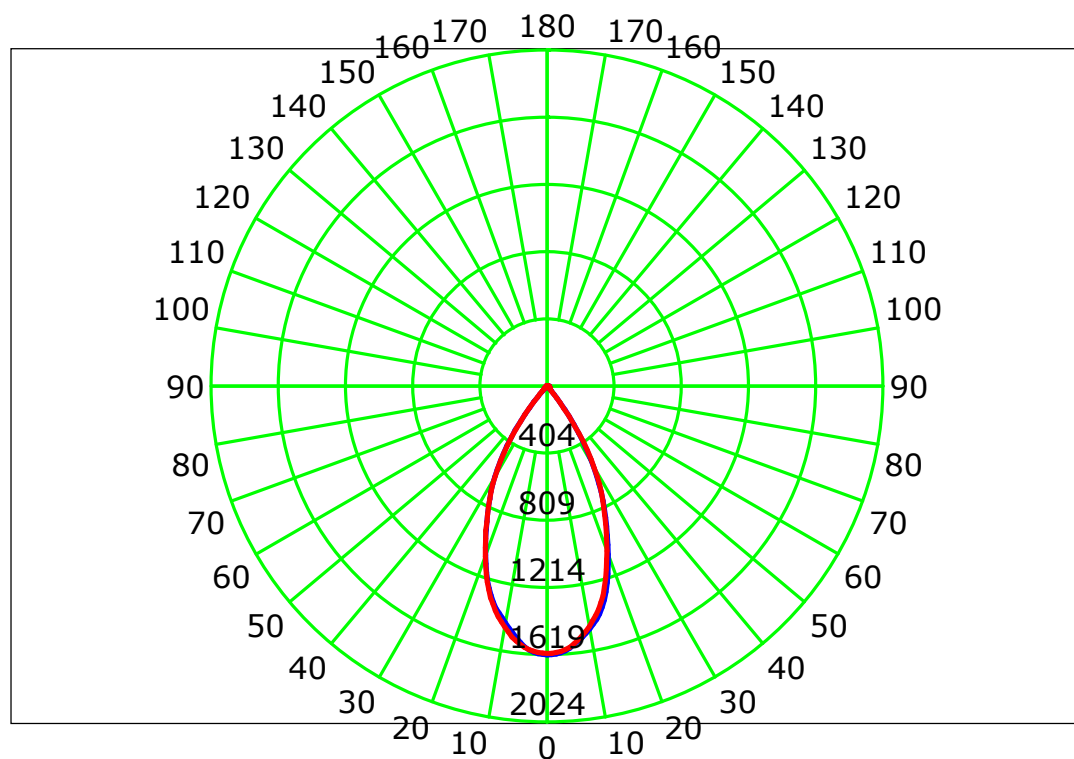
Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



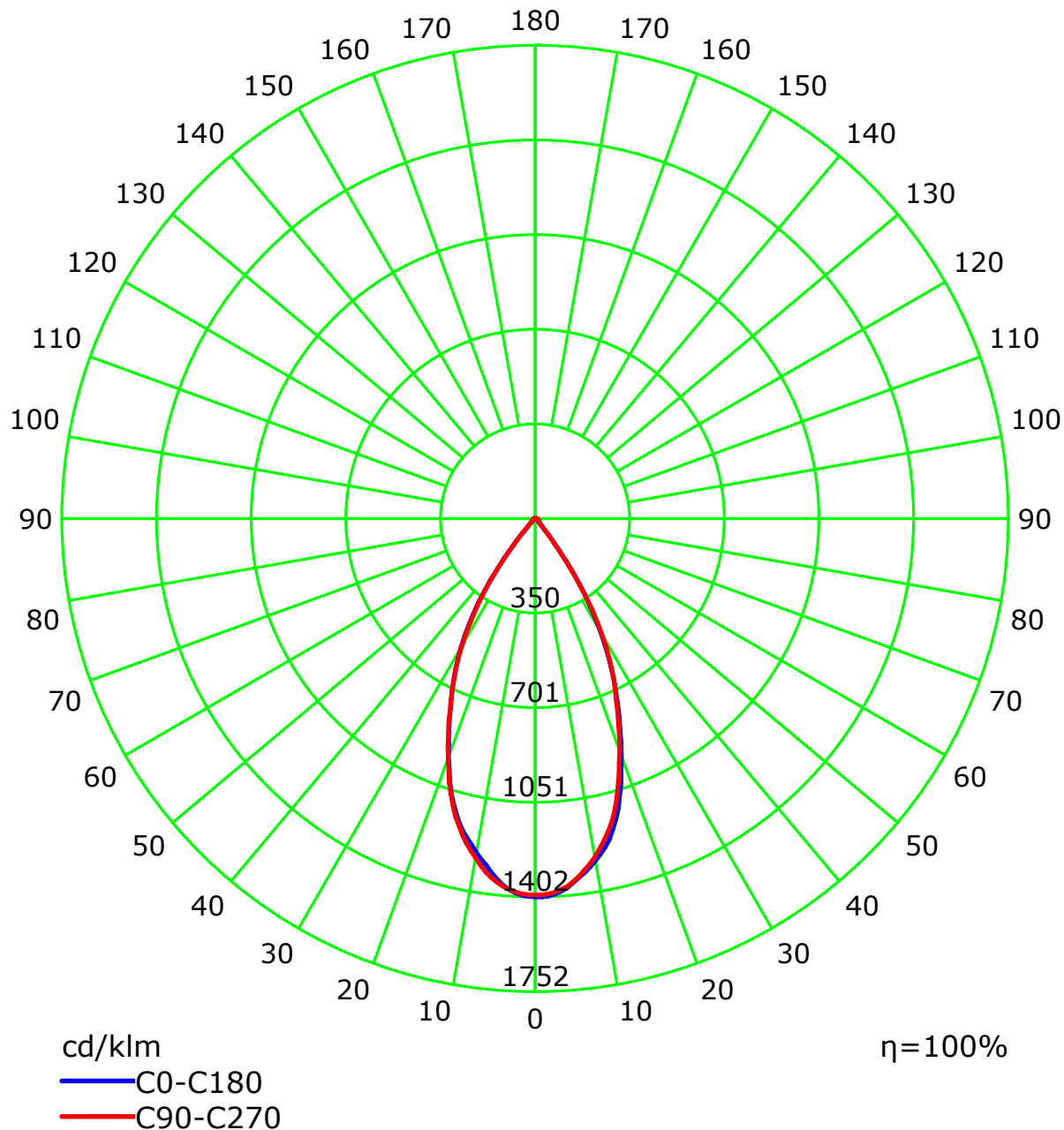
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

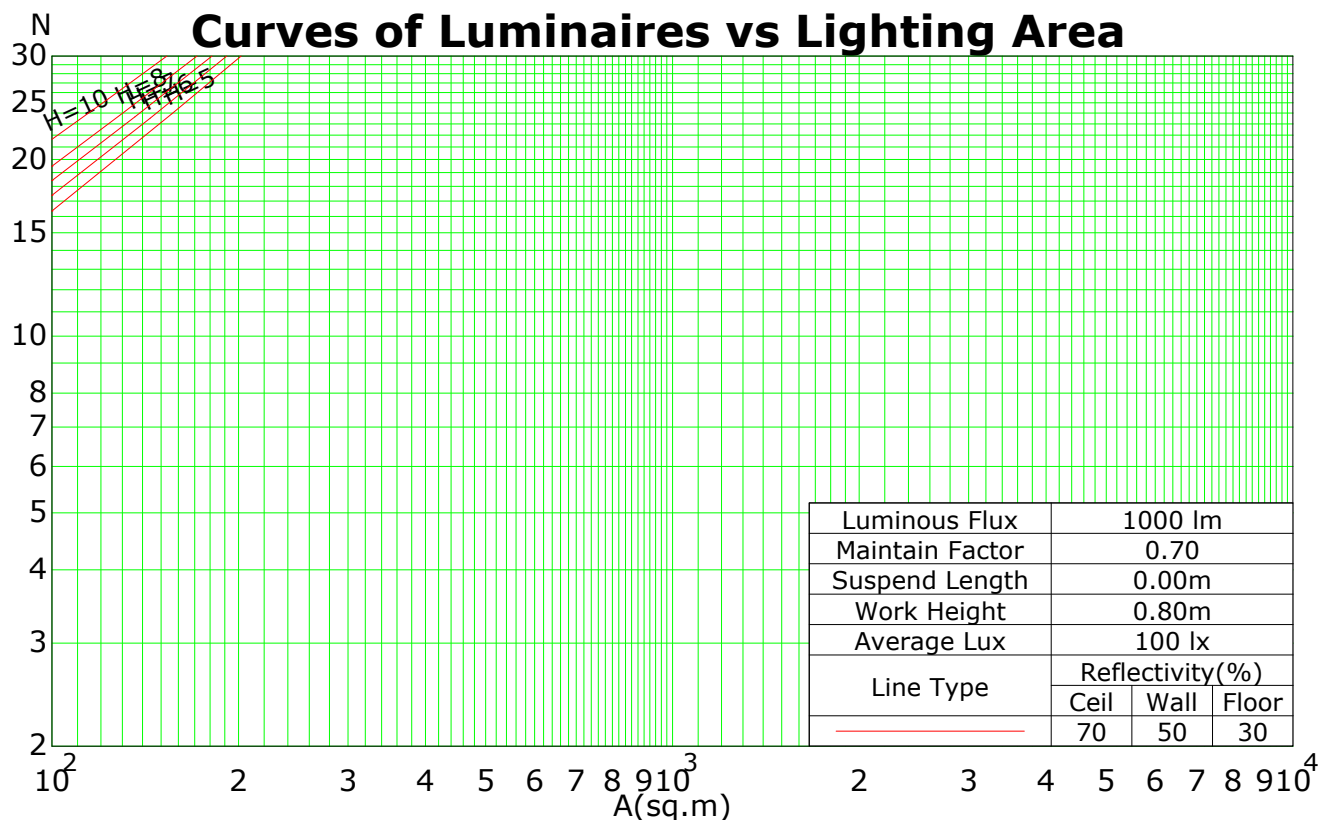
Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.11	1.08	1.06	1.11	1.08	1.06	1.04	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.93
2	1.08	1.03	0.99	0.96	1.06	1.02	0.98	0.95	0.98	0.95	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.87
3	1.03	0.97	0.92	0.88	1.01	0.95	0.91	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.82
4	0.98	0.91	0.85	0.81	0.96	0.90	0.85	0.81	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.77
5	0.93	0.85	0.80	0.76	0.92	0.84	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.73	0.72
6	0.89	0.81	0.75	0.71	0.88	0.80	0.74	0.70	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.68
7	0.85	0.76	0.70	0.66	0.84	0.76	0.70	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.64
8	0.81	0.72	0.66	0.62	0.80	0.72	0.66	0.62	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.60
9	0.78	0.68	0.63	0.59	0.77	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.57
10	0.74	0.65	0.60	0.56	0.73	0.65	0.59	0.56	0.64	0.59	0.56	0.63	0.59	0.55	0.62	0.58	0.55	0.54

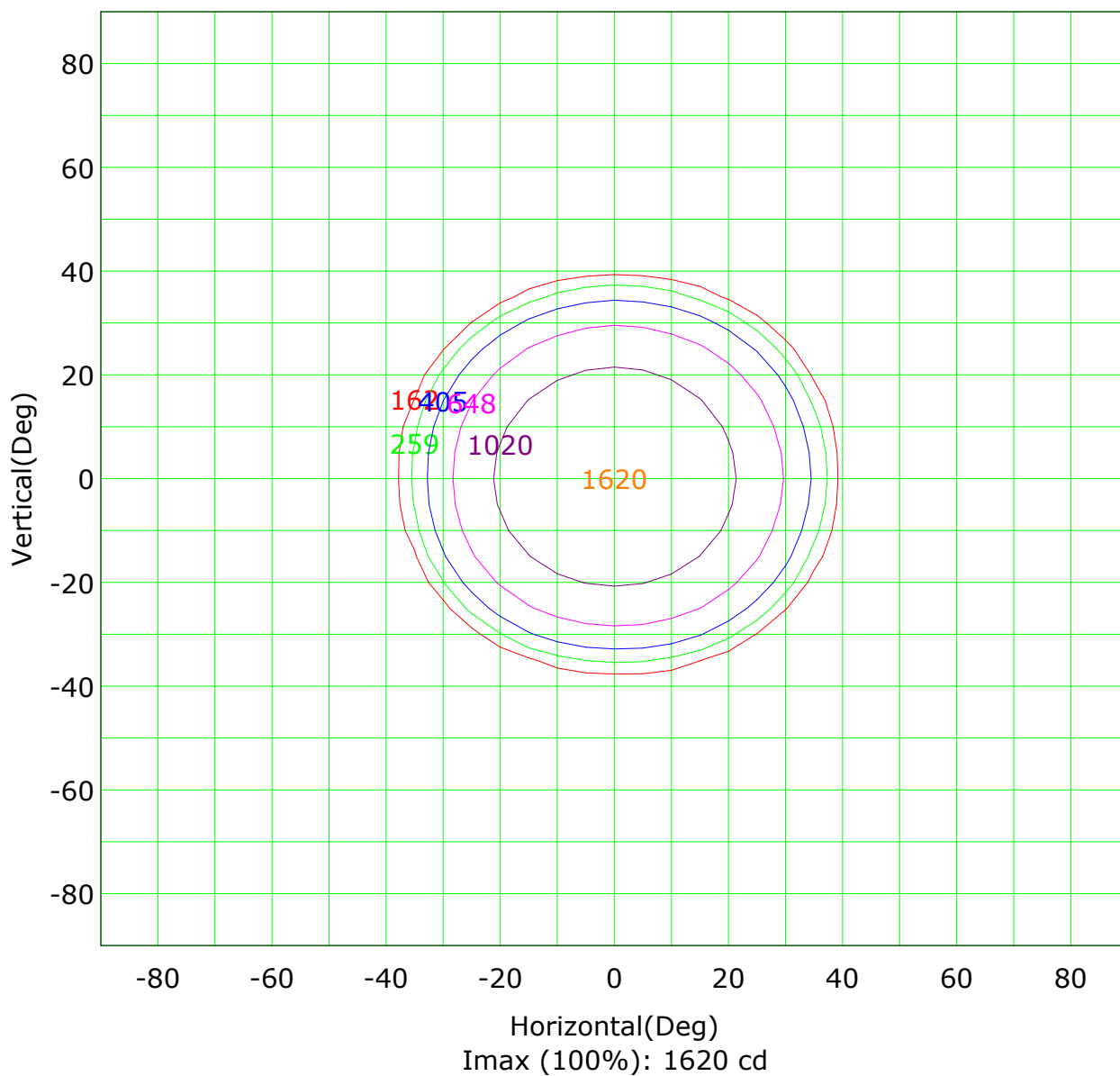
Spacing Criteria (0-180): 0.79
Spacing Criteria (90-270): 0.79
Spacing Criteria (Diagonal): 0.80



C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Isocandela (rectangle)

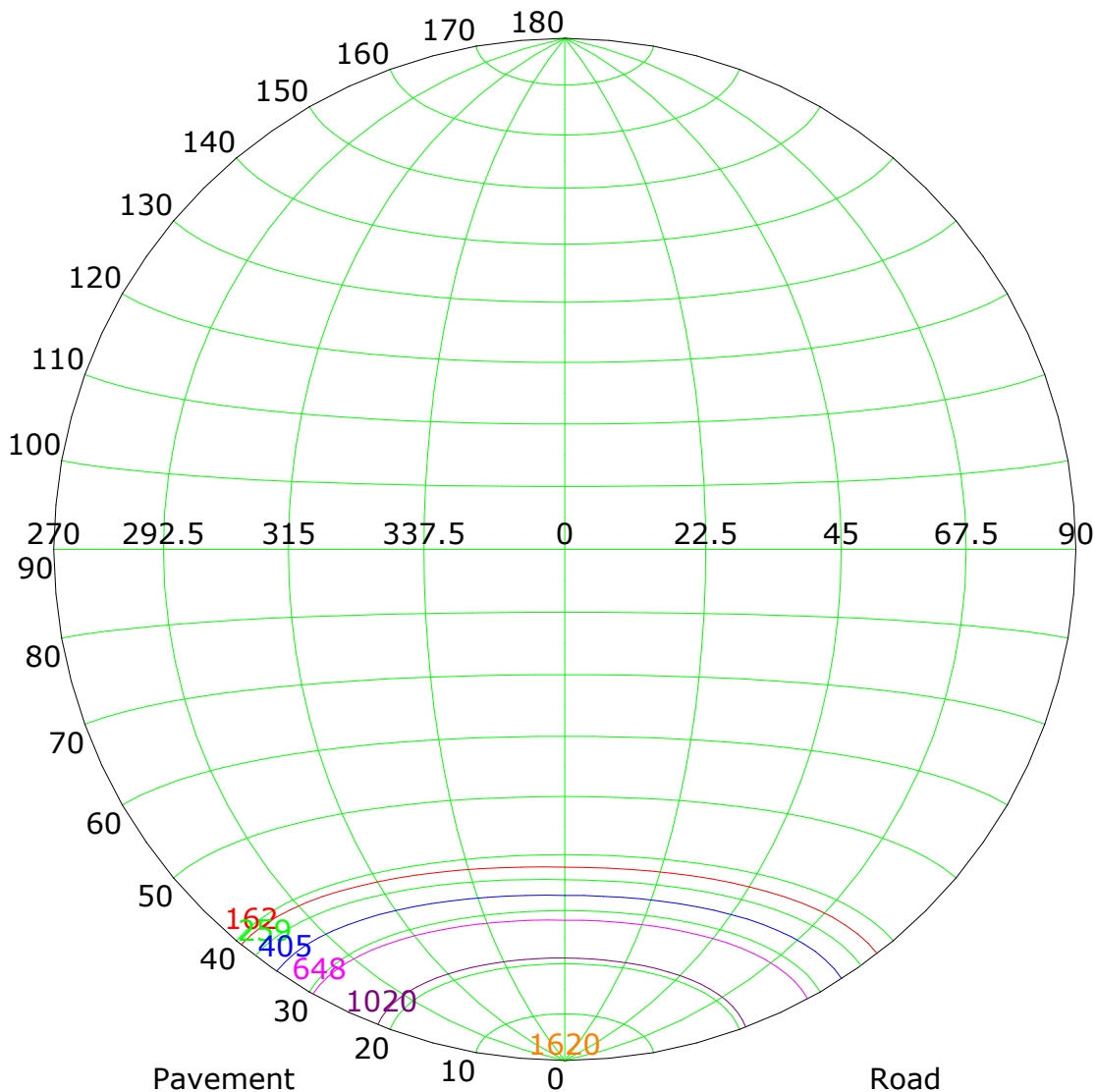


(10%): 162 cd	(16%): 259 cd
(25%): 405 cd	(40%): 648 cd
(63%): 1020 cd	(100%): 1620 cd

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Isocandela (sphere)



Imax (100%): 1620 cd

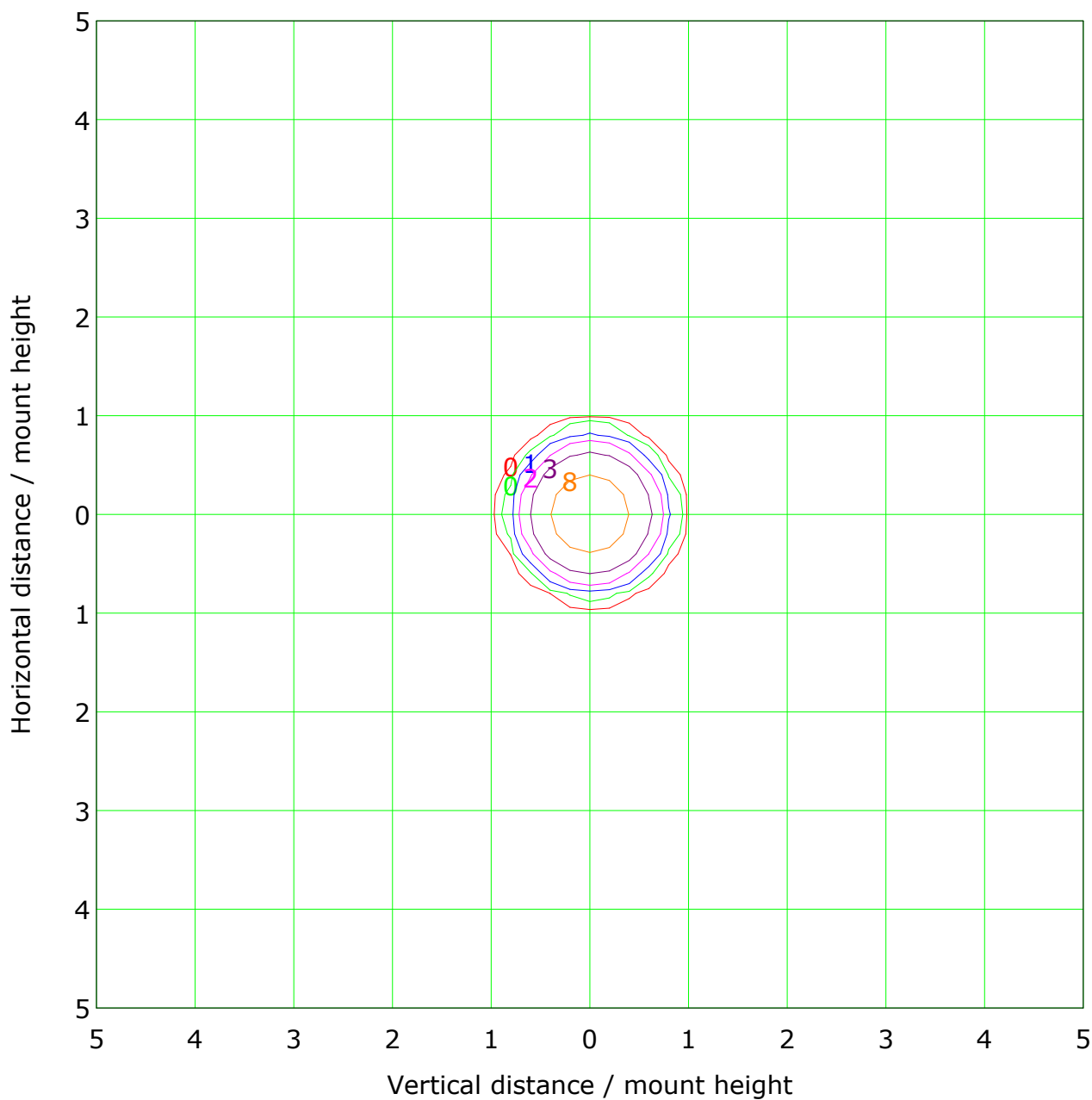
(10%): 162 cd
 (25%): 405 cd
 (63%): 1020 cd

(16%): 259 cd
 (40%): 648 cd
 (100%): 1620 cd

CIE: narrow - short
 CIE: Full-cut-off luminaire
 Max.At90: 5.472 cd/klm

IES: Cut-off
 Max.At80: 5.758 cd/klm
 Max.80-90: 5.905 cd/klm

IsoLux Plot



Mounting Height: 10.0m Max Lux(100%): 16.2 lx

(1%): 0.2 lx	(2%): 0.3 lx
(5%): 0.8 lx	(10%): 1.6 lx
(20%): 3.2 lx	(50%): 8.1 lx
(100%): 16.2 lx	

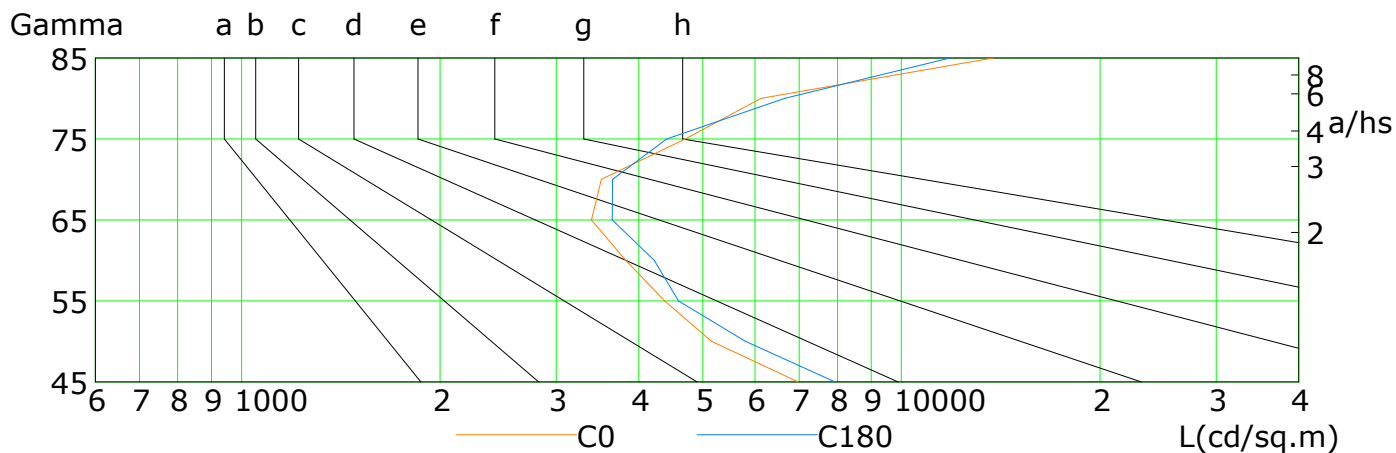
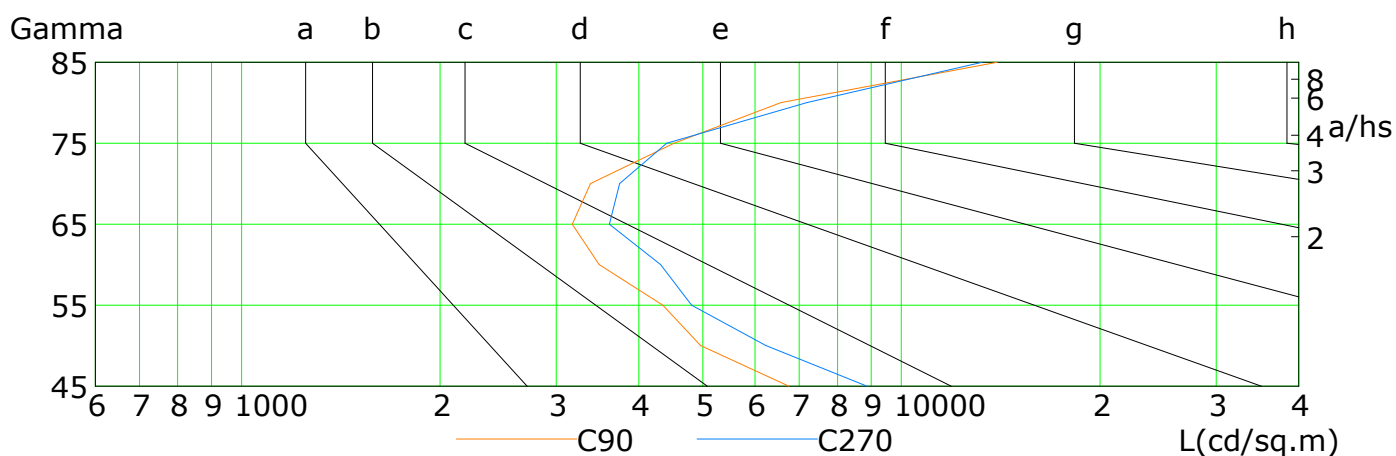
C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
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	6974	5153	4377	3821	3392	3511	4705	6127	13780
C90	6757	4963	4351	3483	3170	3380	4524	6570	13973
C180	7932	5801	4593	4222	3645	3649	4408	6657	11842
C270	8869	6233	4809	4316	3610	3742	4408	7186	13263

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

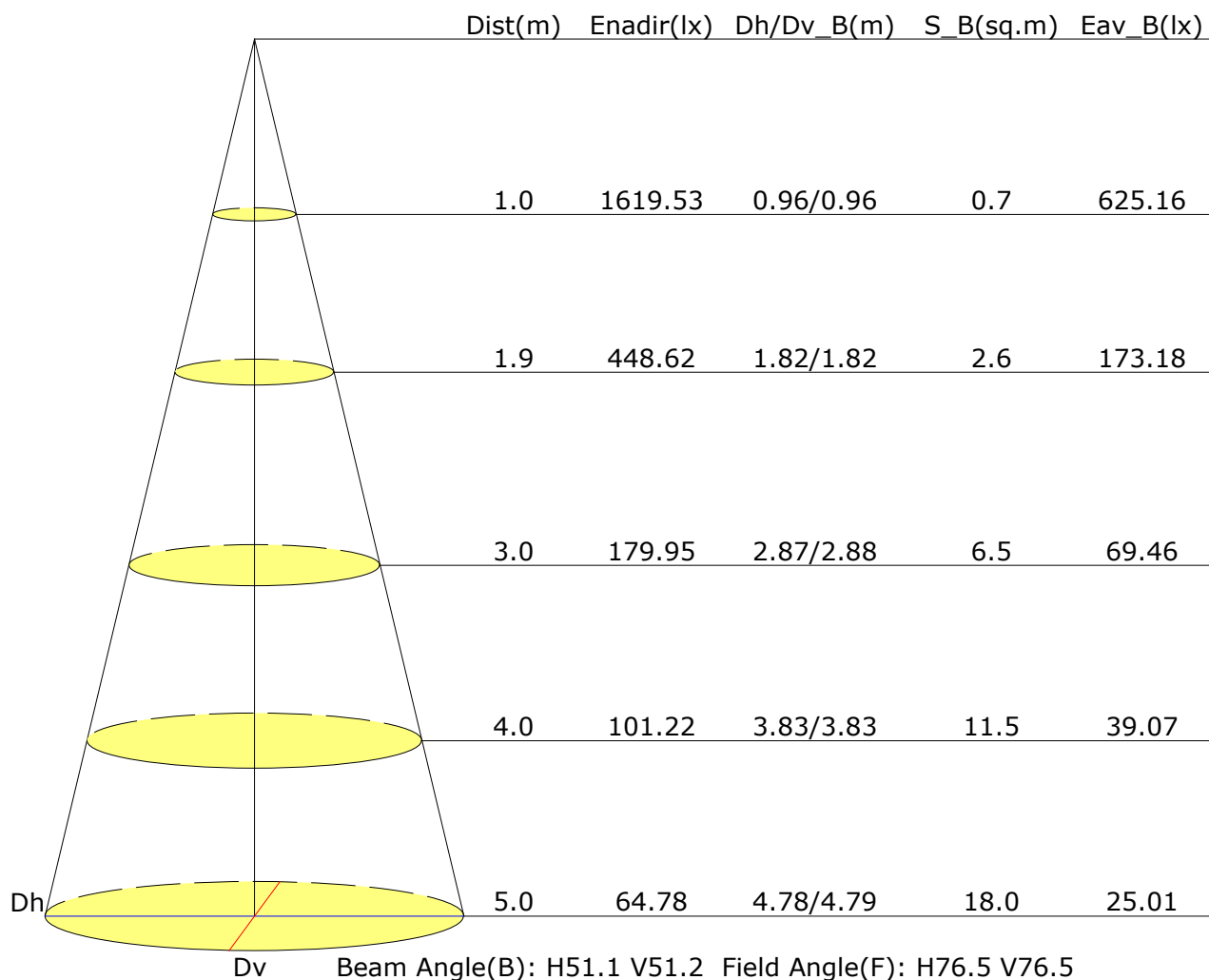
Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

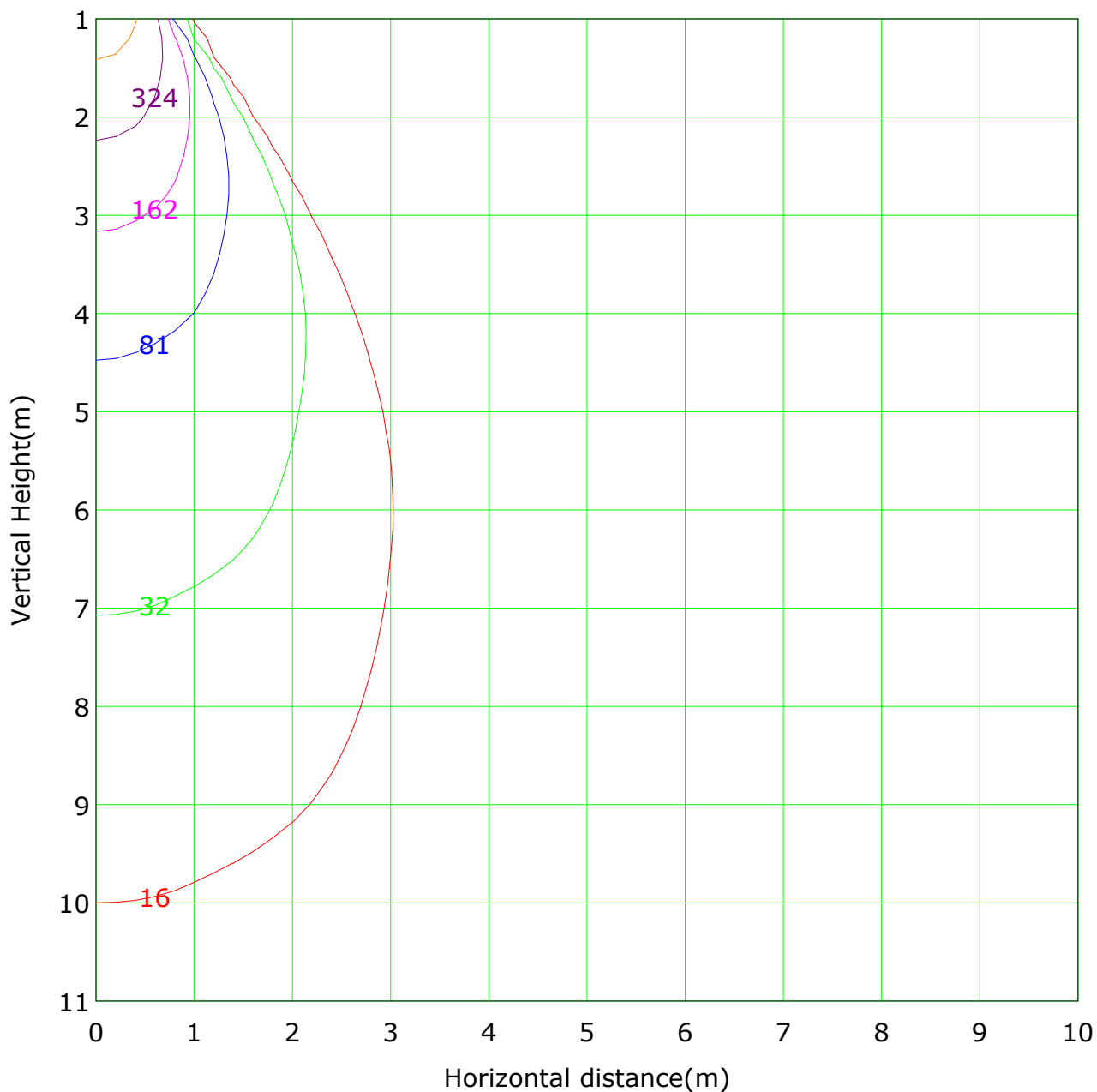
Humidity:

Inspector:

Illuminance at a Distance



Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 1619.5 lx
 (1%): 16.2 lx (2%): 32.4 lx
 (5%): 81.0 lx (10%): 162.0 lx
 (20%): 323.9 lx (50%): 809.8 lx
 (100%): 1619.5 lx

C Plane (°): 0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°): 0.0-90.0: 1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 Inspector:



Area Flux Table

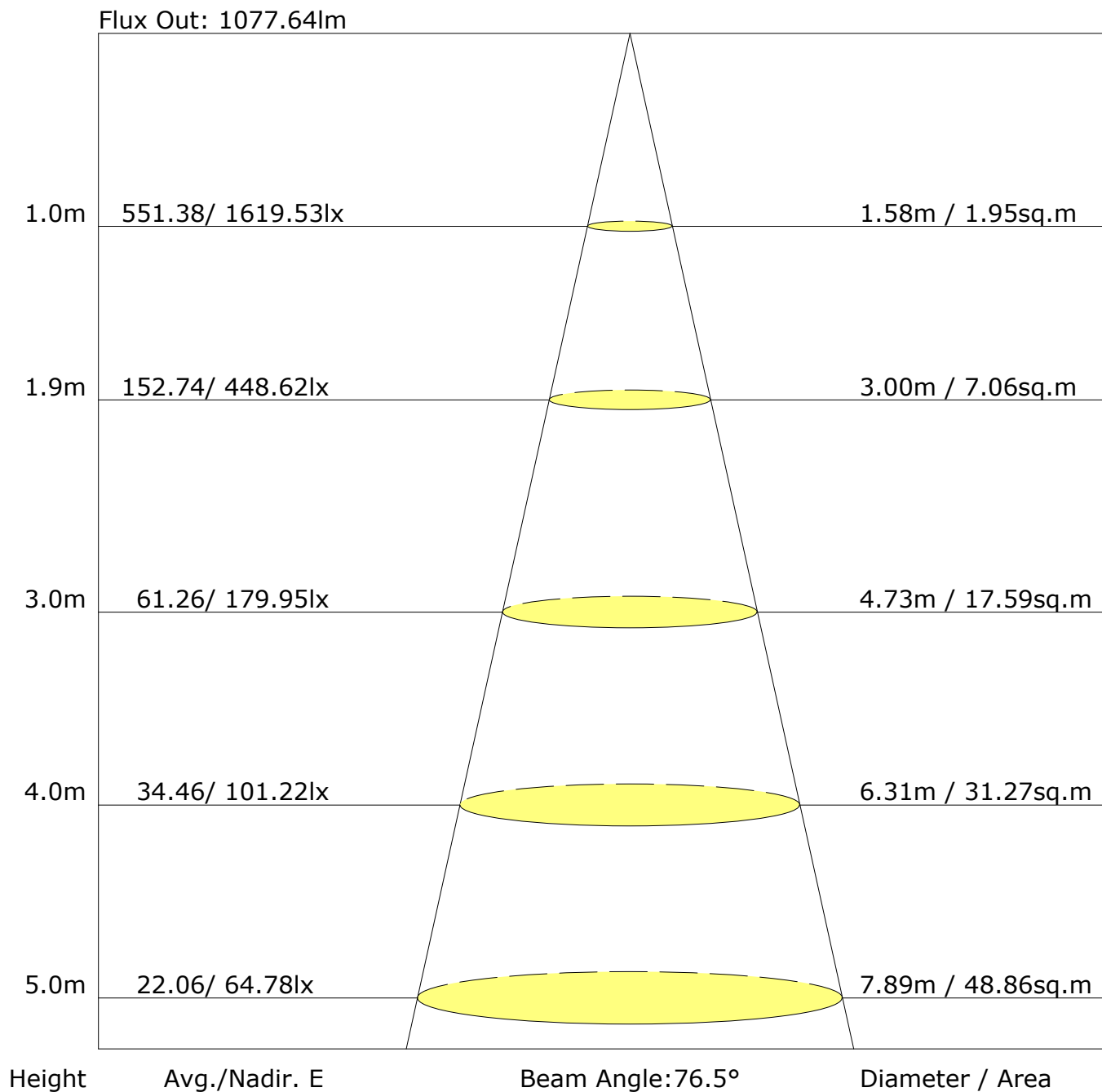
Unit: lm

		Unit: lm																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90		
Vertical plane	-90	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.1	0.0	
	-80	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.2	0.0	
	-70	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.5	0.0	
	-60	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.8	0.0	
	-50	0.0	0.0	0.1	0.1	0.2	0.4	0.6	0.9	1.3	1.3	0.9	0.6	0.4	0.2	0.1	0.1	0.0	0.0	7.2	0.0	
	-40	0.0	0.0	0.1	0.2	0.3	0.6	2.5	7.1	10.7	10.5	6.5	2.1	0.6	0.3	0.2	0.1	0.0	0.0	41.9	33.2	
	-30	0.0	0.0	0.1	0.2	0.4	2.2	10.6	19.7	25.1	24.9	19.0	9.3	1.7	0.4	0.2	0.1	0.0	0.0	114.1	109.3	
	-20	0.0	0.0	0.1	0.2	0.6	6.1	18.6	30.2	38.2	38.4	30.0	17.4	4.7	0.5	0.2	0.1	0.0	0.0	185.5	181.6	
	-10	0.0	0.0	0.1	0.3	0.9	9.0	22.9	36.9	45.9	46.2	37.3	21.9	7.1	0.7	0.2	0.1	0.0	0.0	229.6	226.1	
	0	0.0	0.0	0.1	0.3	0.9	8.9	22.7	36.8	45.8	46.2	37.2	21.8	6.9	0.6	0.2	0.1	0.0	0.0	228.6	225.1	
	10	0.0	0.0	0.1	0.2	0.6	5.7	18.1	29.7	37.7	37.9	29.5	16.9	4.3	0.5	0.2	0.1	0.0	0.0	181.6	177.7	
	20	0.0	0.0	0.1	0.2	0.4	1.9	9.5	18.7	23.9	23.8	18.0	8.2	1.4	0.4	0.2	0.1	0.0	0.0	106.9	101.9	
	30	0.0	0.0	0.1	0.2	0.3	0.6	1.9	5.5	8.5	8.2	4.9	1.5	0.5	0.3	0.2	0.1	0.0	0.0	32.9	23.2	
	40	0.0	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.9	0.9	0.7	0.5	0.3	0.2	0.1	0.1	0.0	0.0	5.8	0.0	
	50	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	3.4	0.0	
	60	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.4	0.0	
	70	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.1	0.0	
	80	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.1	0.0	
	90	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.0	0.0	2.1	0.0	
	Flux(T)	0.3	0.8	1.6	2.9	6.1	37.2	109.5	188.1	240.2	240.2	186.0	101.8	29.3	5.3	2.8	1.6	0.9	0.3	1155		
Flux(E)	0.0	0.0	0.0	0.0	0.0	28.6	103.2	182.2	234.4	234.5	180.0	95.3	19.8	0.0	0.0	0.0	0.0	0.0		1078		
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
		Horizontal plane																				

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 90.0
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

Gamma Plane (°):0.0-90.0:1.0
 Test Device: GPM-1600L
 Distance: 7.172 m [K=1.0000]
 Humidity:
 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	16.9	17.7	17.2	17.9	18.1	17.4	18.3	17.7	18.5	18.7
3H	16.9	17.7	17.2	17.9	18.1	17.4	18.2	17.7	18.4	18.7
4H	17.0	17.7	17.3	17.9	18.2	17.5	18.2	17.8	18.4	18.7
6H	17.2	17.8	17.5	18.1	18.4	17.6	18.3	18.0	18.6	18.9
8H	17.3	18.0	17.7	18.3	18.6	17.8	18.4	18.1	18.7	19.0
12H	17.7	18.3	18.0	18.6	18.9	18.1	18.7	18.4	19.0	19.3
X=4H Y=2H	16.7	17.5	17.1	17.7	18.0	17.3	18.0	17.6	18.2	18.5
3H	16.8	17.4	17.2	17.7	18.1	17.3	17.9	17.7	18.2	18.6
4H	17.0	17.5	17.4	17.9	18.2	17.5	18.0	17.8	18.3	18.7
6H	17.3	17.8	17.8	18.2	18.6	17.8	18.3	18.2	18.6	19.0
8H	17.7	18.1	18.1	18.5	18.9	18.1	18.5	18.5	18.9	19.3
12H	18.2	18.6	18.6	19.0	19.4	18.5	18.9	19.0	19.3	19.8
X=8H Y=4H	17.0	17.5	17.5	17.9	18.3	17.5	17.9	17.9	18.3	18.7
6H	17.6	17.9	18.0	18.3	18.8	18.0	18.3	18.4	18.7	19.2
8H	18.0	18.4	18.5	18.8	19.3	18.4	18.7	18.9	19.2	19.6
12H	18.9	19.1	19.4	19.6	20.1	19.1	19.4	19.6	19.9	20.4
X=12H Y=4H	17.0	17.4	17.5	17.8	18.3	17.5	17.9	17.9	18.3	18.7
6H	17.6	18.0	18.1	18.4	18.9	18.0	18.3	18.5	18.8	19.3
8H	18.2	18.5	18.7	19.0	19.5	18.6	18.8	19.1	19.3	19.8
Variations with the observer position at spacings:										
S=1.0H	+4.7/-3.4					+4.8/-4.0				
S=1.5H	+7.3/-3.7					+7.4/-4.5				
S=2.0H	+9.2/-4.2					+9.4/-5.1				

Calculate in accordance with CIE Pub.117. The table is revised with 1155lm ($8\log(F/F_0) = 0.5$).

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 0.75									
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	0.85	0.91	0.96	0.99	1.03	1.06	1.07	1.10	1.11	
	0.30		0.80	0.87	0.92	0.95	0.99	1.02	1.04	1.07	1.09	
	0.20		0.77	0.84	0.88	0.92	0.97	1.00	1.02	1.05	1.07	
0.50	0.50	0.20	0.84	0.90	0.94	0.96	1.00	1.02	1.04	1.06	1.07	
	0.30		0.79	0.86	0.90	0.93	0.97	1.00	1.02	1.04	1.05	
	0.20		0.76	0.83	0.87	0.90	0.95	0.98	1.00	1.02	1.04	
0.30	0.50	0.20	0.82	0.88	0.92	0.94	0.97	0.99	1.01	1.02	1.03	
	0.30		0.79	0.85	0.89	0.92	0.95	0.97	0.99	1.01	1.02	
	0.20		0.76	0.82	0.86	0.89	0.93	0.96	0.97	1.00	1.01	
0.00	0.00	0.00	0.74	0.80	0.84	0.87	0.90	0.92	0.93	0.95	0.96	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 0.75									
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	0.59	0.47	0.40	0.34	0.27	0.22	0.19	0.15	0.12	
	0.30		0.49	0.41	0.35	0.30	0.25	0.21	0.18	0.14	0.12	
	0.20		0.42	0.35	0.31	0.27	0.22	0.19	0.17	0.13	0.11	
0.50	0.50	0.20	0.56	0.45	0.37	0.32	0.25	0.25	0.18	0.14	0.11	
	0.30		0.48	0.39	0.33	0.29	0.23	0.19	0.17	0.13	0.11	
	0.20		0.41	0.34	0.30	0.26	0.21	0.18	0.16	0.12	0.10	
0.30	0.50	0.20	0.54	0.42	0.35	0.30	0.23	0.19	0.16	0.12	0.10	
	0.30		0.46	0.37	0.32	0.27	0.22	0.18	0.15	0.12	0.10	
	0.20		0.40	0.33	0.29	0.25	0.20	0.17	0.15	0.11	0.09	
0.00	0.00	0.00	0.27	0.21	0.17	0.15	0.11	0.09	0.08	0.06	0.05	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 0.75									
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	0.13	0.15	0.16	0.17	0.18	0.19	0.20	0.20	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.17	0.17	0.19	0.20	
	0.20		0.06	0.08	0.10	0.11	0.13	0.15	0.16	0.17	0.18	
0.50	0.50	0.20	0.12	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	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	0.12	0.14	0.15	0.15	0.17	0.17	0.18	0.19	0.19	
	0.30		0.09	0.10	0.12	0.13	0.14	0.16	0.16	0.17	0.18	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:13W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												



Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	1614.7	1.5	1.5	0.13	0.13
1.0-2.0	1612.5	4.6	6.2	0.40	0.53
2.0-3.0	1607.4	7.7	13.9	0.67	1.20
3.0-4.0	1598.7	10.7	24.6	0.93	2.13
4.0-5.0	1586.9	13.7	38.2	1.18	3.31
5.0-6.0	1570.7	16.5	54.7	1.43	4.74
6.0-7.0	1551.0	19.3	74.0	1.67	6.41
7.0-8.0	1530.0	21.9	95.9	1.90	8.30
8.0-9.0	1507.1	24.4	120.3	2.12	10.42
9.0-10.0	1483.1	26.8	147.2	2.32	12.74
10.0-11.0	1457.3	29.1	176.3	2.52	15.26
11.0-12.0	1430.4	31.3	207.5	2.71	17.97
12.0-13.0	1402.6	33.3	240.8	2.88	20.85
13.0-14.0	1370.9	35.1	275.9	3.04	23.89
14.0-15.0	1335.2	36.7	312.6	3.17	27.06
15.0-16.0	1295.3	38.0	350.6	3.29	30.35
16.0-17.0	1251.1	39.0	389.5	3.37	33.72
17.0-18.0	1204.5	39.7	429.2	3.44	37.16
18.0-19.0	1153.8	40.1	469.4	3.48	40.64
19.0-20.0	1102.7	40.4	509.7	3.49	44.13
20.0-21.0	1052.9	40.4	550.2	3.50	47.64
21.0-22.0	1001.7	40.3	590.4	3.49	51.12
22.0-23.0	952.1	40.0	630.4	3.46	54.58
23.0-24.0	902.9	39.5	669.9	3.42	58.00
24.0-25.0	855.1	38.9	708.8	3.37	61.37
25.0-26.0	810.9	38.3	747.0	3.31	64.68
26.0-27.0	765.7	37.5	784.5	3.24	67.92
27.0-28.0	719.3	36.4	820.9	3.15	71.08
28.0-29.0	673.0	35.2	856.1	3.05	74.13
29.0-30.0	623.3	33.7	889.8	2.91	77.04
30.0-31.0	572.1	31.8	921.6	2.76	79.80
31.0-32.0	519.3	29.8	951.4	2.58	82.37
32.0-33.0	466.0	27.5	978.9	2.38	84.75
33.0-34.0	413.5	25.0	1003.9	2.17	86.92
34.0-35.0	357.5	22.2	1026.1	1.92	88.84
35.0-36.0	302.0	19.2	1045.3	1.67	90.50

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:



Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	248.4	16.2	1061.5	1.40	91.91
37.0-38.0	197.3	13.2	1074.7	1.14	93.05
38.0-39.0	152.8	10.4	1085.1	0.90	93.95
39.0-40.0	113.6	7.9	1093.1	0.69	94.64
40.0-41.0	82.2	5.9	1098.9	0.51	95.14
41.0-42.0	60.1	4.4	1103.3	0.38	95.52
42.0-43.0	45.1	3.3	1106.6	0.29	95.81
43.0-44.0	36.1	2.7	1109.3	0.24	96.05
44.0-45.0	30.9	2.4	1111.7	0.21	96.25
45.0-46.0	27.4	2.1	1113.9	0.19	96.44
46.0-47.0	24.9	2.0	1115.8	0.17	96.61
47.0-48.0	22.9	1.9	1117.7	0.16	96.77
48.0-49.0	21.2	1.7	1119.4	0.15	96.92
49.0-50.0	19.7	1.6	1121.1	0.14	97.06
50.0-51.0	18.3	1.5	1122.6	0.13	97.20
51.0-52.0	17.1	1.5	1124.1	0.13	97.33
52.0-53.0	16.0	1.4	1125.5	0.12	97.45
53.0-54.0	15.1	1.3	1126.8	0.12	97.56
54.0-55.0	14.2	1.3	1128.1	0.11	97.67
55.0-56.0	13.6	1.2	1129.3	0.11	97.78
56.0-57.0	12.9	1.2	1130.5	0.10	97.88
57.0-58.0	12.2	1.1	1131.6	0.10	97.98
58.0-59.0	11.5	1.1	1132.7	0.09	98.07
59.0-60.0	10.9	1.0	1133.7	0.09	98.16
60.0-61.0	10.3	1.0	1134.7	0.09	98.25
61.0-62.0	9.9	1.0	1135.7	0.08	98.33
62.0-63.0	9.2	0.9	1136.6	0.08	98.41
63.0-64.0	8.5	0.8	1137.4	0.07	98.48
64.0-65.0	8.0	0.8	1138.2	0.07	98.55
65.0-66.0	7.6	0.8	1139.0	0.07	98.61
66.0-67.0	7.2	0.7	1139.7	0.06	98.67
67.0-68.0	6.9	0.7	1140.4	0.06	98.73
68.0-69.0	6.8	0.7	1141.1	0.06	98.80
69.0-70.0	6.7	0.7	1141.8	0.06	98.85
70.0-71.0	6.6	0.7	1142.4	0.06	98.91
71.0-72.0	6.5	0.7	1143.1	0.06	98.97

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 2)

[illegible]

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector:

Zonal Lumen (Continue 3)

cone flux(90°): 1111.72 lm

%lum = 96.3%

%lamp = 96.3%

cone flux(120°): 1133.74 lm

%lum = 98.2%

%lamp = 98.2%



Candlepower Table

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G0.0	1619.5	1611.0	1619.5	1611.0	1619.5					
G1.0	1619.3	1610.5	1616.9	1610.0	1619.3					
G2.0	1616.1	1607.0	1613.6	1606.6	1616.1					
G3.0	1609.6	1601.3	1604.6	1600.4	1609.6					
G4.0	1598.7	1591.1	1592.7	1590.9	1598.7					
G5.0	1585.4	1580.0	1575.5	1580.5	1585.4					
G6.0	1565.7	1561.3	1552.4	1564.8	1565.7					
G7.0	1546.9	1542.1	1527.7	1547.3	1546.9					
G8.0	1529.0	1519.1	1500.0	1527.6	1529.0					
G9.0	1508.0	1496.5	1475.8	1500.6	1508.0					
G10.0	1487.2	1470.7	1450.6	1475.1	1487.2					
G11.0	1462.9	1441.3	1423.7	1447.0	1462.9					
G12.0	1438.3	1411.6	1399.0	1419.3	1438.3					
G13.0	1409.6	1380.4	1373.4	1388.9	1409.6					
G14.0	1373.7	1344.5	1343.1	1353.4	1373.7					
G15.0	1333.9	1305.5	1307.2	1320.1	1333.9					
G16.0	1290.3	1258.6	1268.2	1278.6	1290.3					
G17.0	1239.8	1210.4	1228.5	1234.2	1239.8					
G18.0	1190.3	1160.2	1182.4	1190.1	1190.3					
G19.0	1131.4	1105.2	1132.1	1139.1	1131.4					
G20.0	1079.6	1057.5	1084.9	1091.8	1079.6					
G21.0	1025.7	1005.3	1035.1	1043.0	1025.7					
G22.0	970.0	952.9	988.7	992.9	970.0					
G23.0	918.9	904.5	940.9	947.8	918.9					
G24.0	868.3	853.9	893.5	895.2	868.3					
G25.0	817.2	811.9	849.5	851.4	817.2					
G26.0	771.4	769.4	808.4	808.3	771.4					
G27.0	717.8	723.4	764.2	762.5	717.8					
G28.0	668.6	674.5	724.7	718.8	668.6					
G29.0	615.4	626.7	678.8	676.7	615.4					
G30.0	556.2	570.4	634.7	627.3	556.2					
G31.0	503.7	518.0	587.1	579.4	503.7					
G32.0	444.8	458.9	533.9	529.0	444.8					
G33.0	393.3	403.7	488.2	476.0	393.3					
G34.0	340.9	343.3	437.0	426.0	340.9					
G35.0	282.9	278.9	379.8	371.0	282.9					
G36.0	229.8	224.0	328.5	321.4	229.8					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



Candlepower Table (Continue 1)

Unit: cd

G\C	C0.0	C90.0	C180.0	C270.0	C360.0					
G37.0	180.3	169.6	265.2	268.3	180.3					
G38.0	132.8	127.2	217.4	217.7	132.8					
G39.0	96.2	90.0	168.4	173.1	96.2					
G40.0	67.3	62.2	123.0	128.3	67.3					
G41.0	49.3	46.9	88.0	92.7	49.3					
G42.0	38.5	37.1	61.9	66.5	38.5					
G43.0	32.2	31.5	44.8	48.5	32.2					
G44.0	29.4	28.2	35.6	39.0	29.4					
G45.0	26.3	25.5	29.9	33.4	26.3					
G46.0	24.1	23.6	26.9	29.4	24.1					
G47.0	22.3	22.1	24.1	26.8	22.3					
G48.0	20.7	20.0	22.9	24.6	20.7					
G49.0	19.0	18.5	21.3	22.8	19.0					
G50.0	17.6	17.0	19.9	21.4	17.6					
G51.0	15.9	16.2	18.3	20.1	15.9					
G52.0	15.2	14.7	17.4	18.6	15.2					
G53.0	14.8	14.6	16.2	16.7	14.8					
G54.0	13.8	13.6	14.9	16.2	13.8					
G55.0	13.4	13.3	14.0	14.7	13.4					
G56.0	12.4	12.4	13.7	14.7	12.4					
G57.0	12.3	11.8	12.7	13.5	12.3					
G58.0	11.4	11.2	12.0	13.1	11.4					
G59.0	10.8	10.1	11.9	11.9	10.8					
G60.0	10.2	9.3	11.3	11.5	10.2					
G61.0	10.0	9.1	10.2	11.1	10.0					
G62.0	9.5	9.1	10.0	10.2	9.5					
G63.0	8.9	7.9	9.1	9.1	8.9					
G64.0	8.5	7.6	8.6	8.2	8.5					
G65.0	7.6	7.1	8.2	8.1	7.6					
G66.0	7.5	6.7	7.8	7.7	7.5					
G67.0	6.9	7.1	6.6	7.0	6.9					
G68.0	6.7	7.1	6.8	6.9	6.7					
G69.0	7.1	7.1	6.8	6.3	7.1					
G70.0	6.4	6.2	6.7	6.8	6.4					
G71.0	6.7	6.7	6.3	7.1	6.7					
G72.0	6.4	6.4	5.9	6.5	6.4					
G73.0	6.1	6.3	6.3	5.8	6.1					

C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:1.0

Test Device: GPM-1600L

Distance: 7.172 m [K=1.0000]

Humidity:

Inspector:



Unit: cd

C Plane (°):0.0-360.0: 90.0
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-90.0:1.0
Test Device: GPM-1600L
Distance: 7.172 m [K=1.0000]
Humidity:
Inspector: