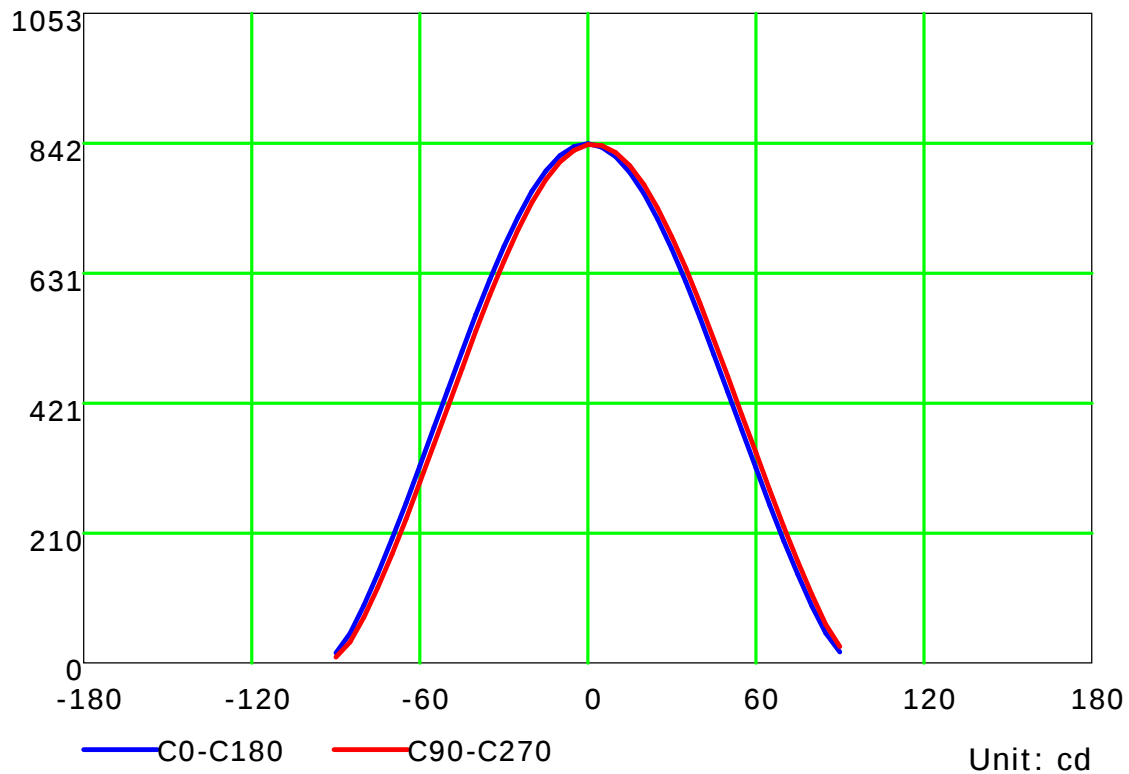
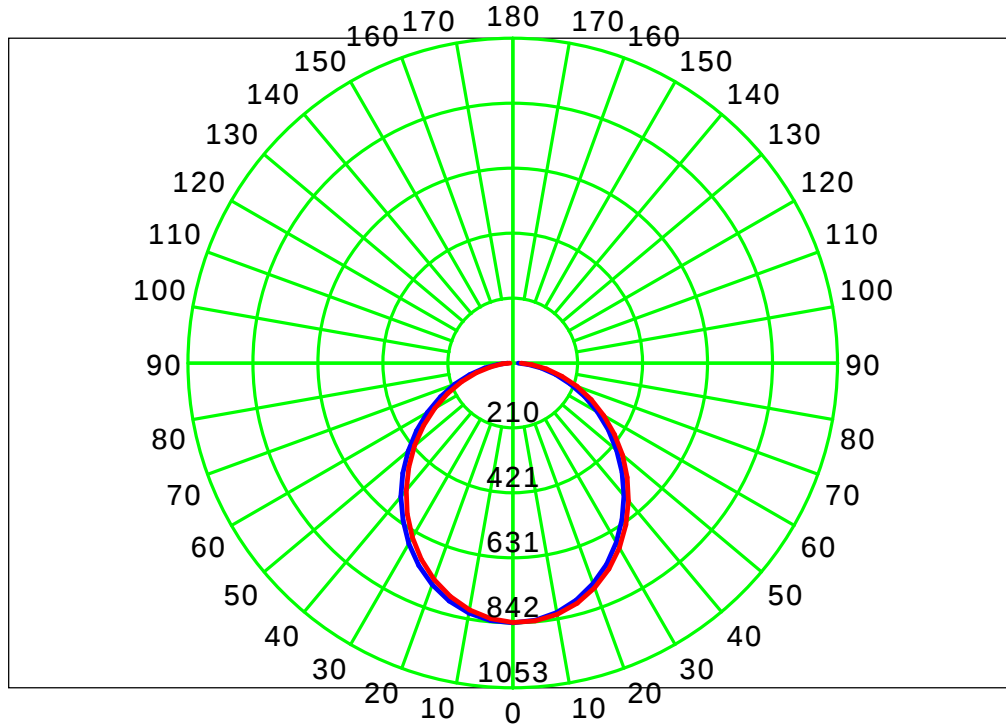




Luminous Intensity Distribution Curve



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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:

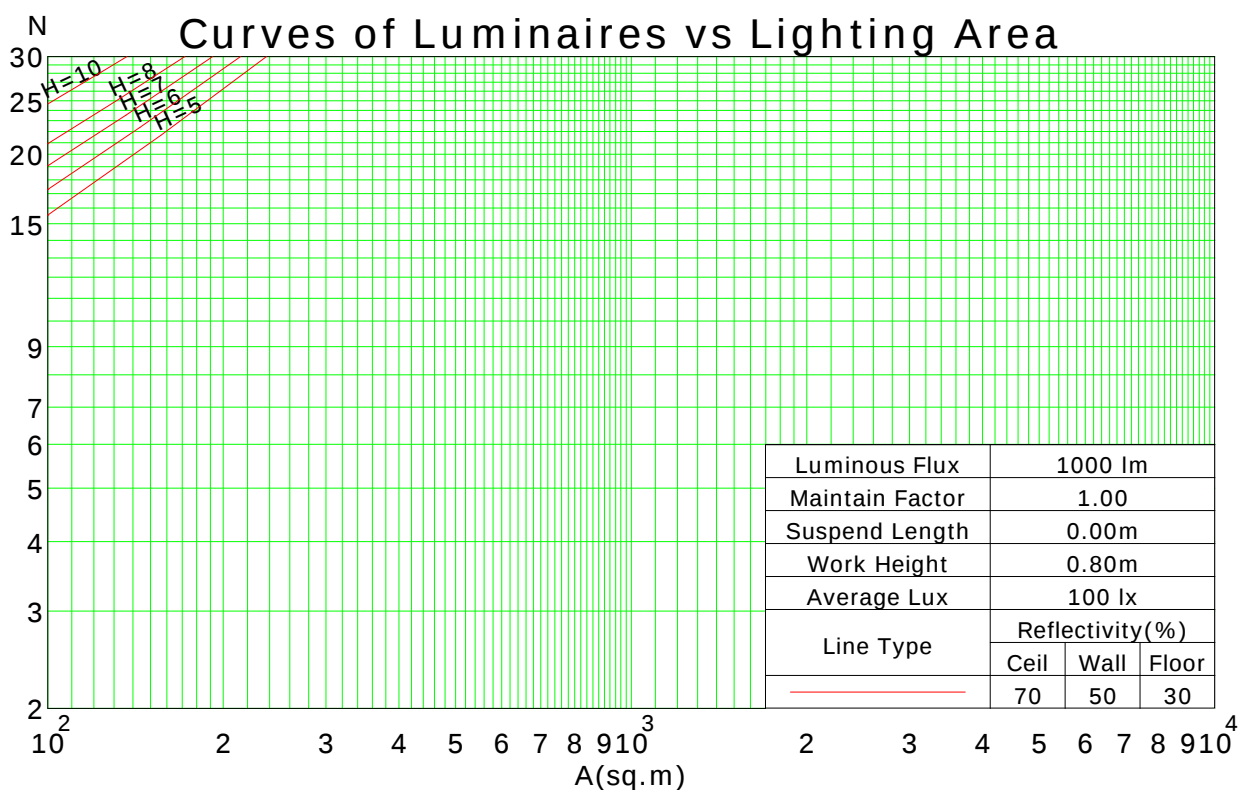
Coefficients Of Utilization - Zonal Cavity Method

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	1.09	1.04	0.99	0.95	1.06	1.01	0.97	0.94	0.97	0.94	0.91	0.93	0.91	0.88	0.90	0.88	0.86	0.83
2	0.99	0.91	0.84	0.78	0.96	0.89	0.82	0.77	0.85	0.80	0.75	0.82	0.77	0.73	0.79	0.75	0.72	0.70
3	0.90	0.80	0.71	0.65	0.88	0.78	0.70	0.64	0.75	0.69	0.63	0.72	0.67	0.62	0.70	0.65	0.61	0.59
4	0.83	0.71	0.62	0.55	0.80	0.69	0.61	0.55	0.67	0.60	0.54	0.65	0.58	0.53	0.62	0.57	0.53	0.50
5	0.76	0.63	0.54	0.48	0.74	0.62	0.54	0.47	0.60	0.53	0.47	0.58	0.52	0.46	0.56	0.50	0.46	0.44
6	0.70	0.57	0.48	0.42	0.68	0.56	0.48	0.42	0.54	0.47	0.41	0.53	0.46	0.41	0.51	0.45	0.40	0.38
7	0.65	0.52	0.43	0.37	0.64	0.51	0.43	0.37	0.50	0.42	0.37	0.48	0.41	0.36	0.47	0.41	0.36	0.34
8	0.61	0.47	0.39	0.33	0.59	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.32	0.30
9	0.57	0.44	0.35	0.30	0.56	0.43	0.35	0.30	0.42	0.35	0.30	0.41	0.34	0.29	0.40	0.34	0.29	0.27
10	0.53	0.40	0.32	0.27	0.52	0.40	0.32	0.27	0.39	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27	0.25

Spacing Criteria (0-180): 1.19

Spacing Criteria (90-270): 1.19

Spacing Criteria (Diagonal): 1.30



C Plane (°):0.0-360.0: 90.0

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-90.0:5.0

Test Device: GPM-1600L

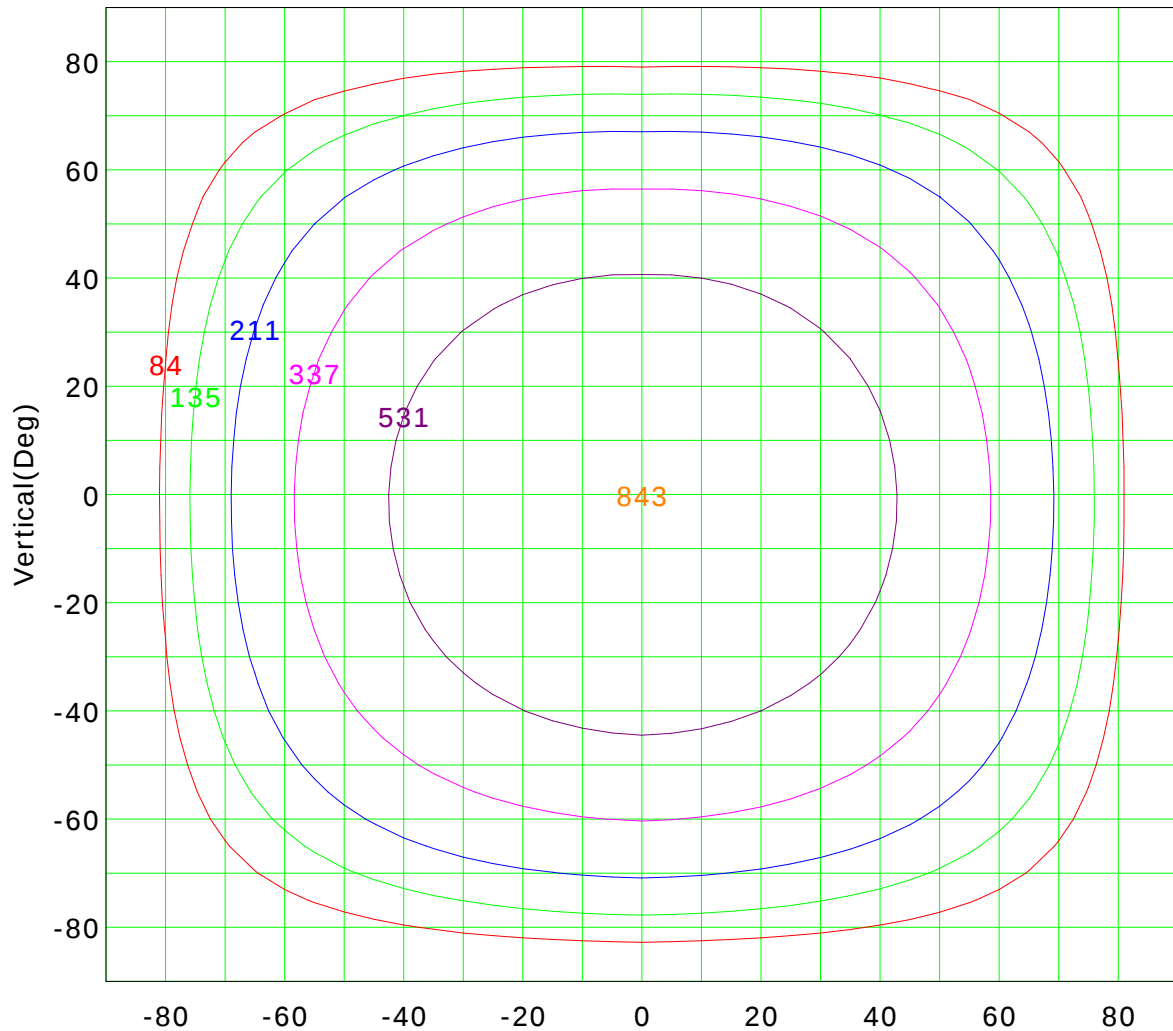
Distance: 7.305 m [K=1.0000]

Humidity:

Inspector:



Isocandela (rectangle)



Horizontal(Deg)
I_{max} (100%): 843 cd

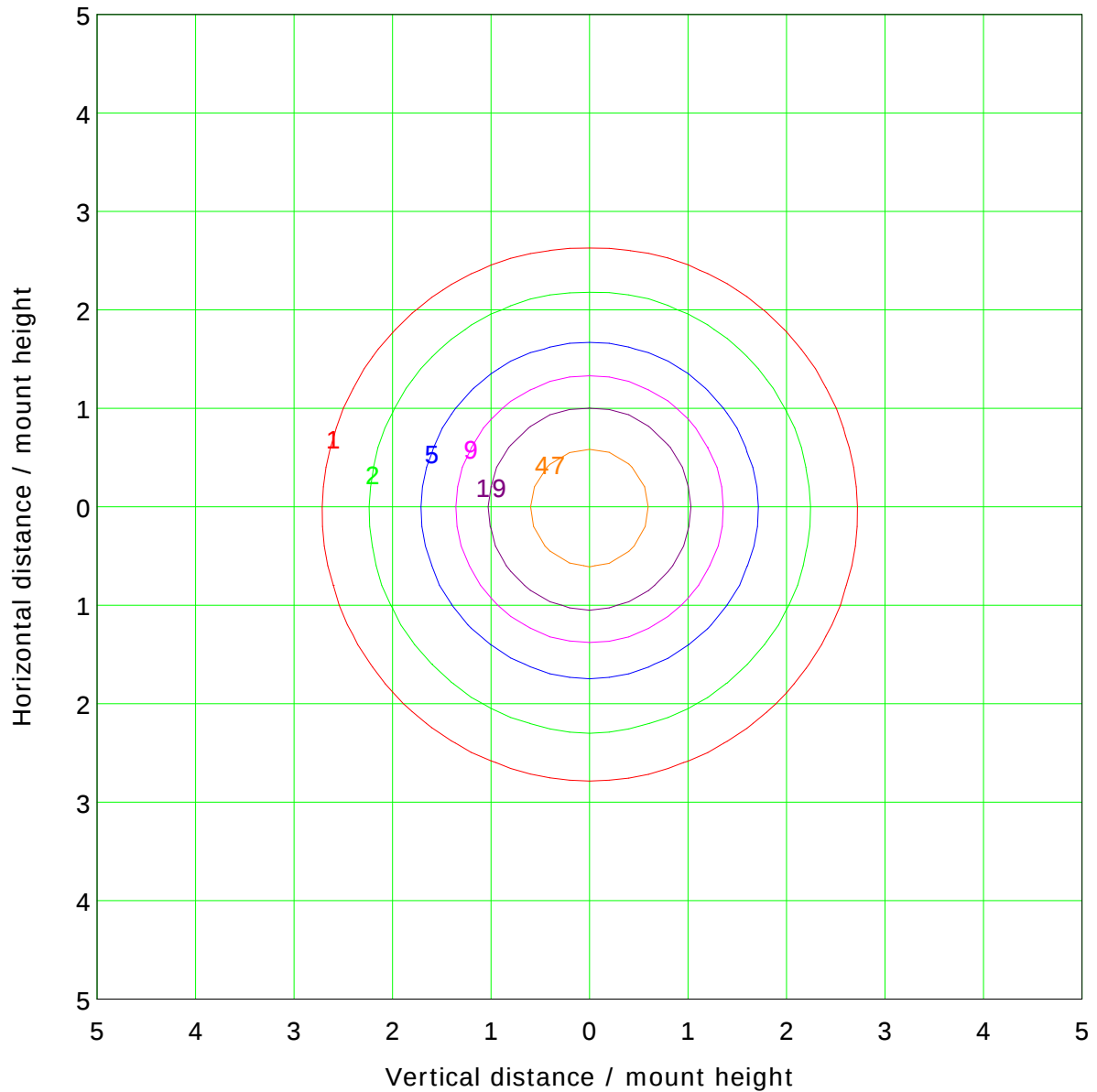
(10%): 84 cd	(16%): 135 cd
(25%): 211 cd	(40%): 337 cd
(63%): 531 cd	(100%): 843 cd

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:



IsoLux Plot



Mounting Height: 3.0m		Max Lux(100%): 93.6 lx	
(1%):	0.9 lx	(2%):	1.9 lx
(5%):	4.7 lx	(10%):	9.4 lx
(20%):	18.7 lx	(50%):	46.8 lx
(100%):	93.6 lx		

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

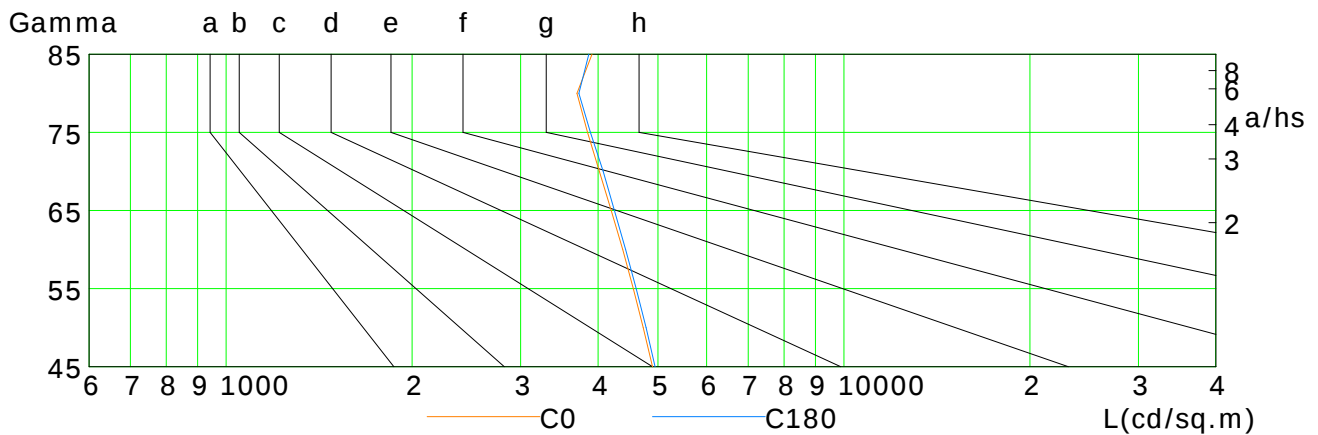
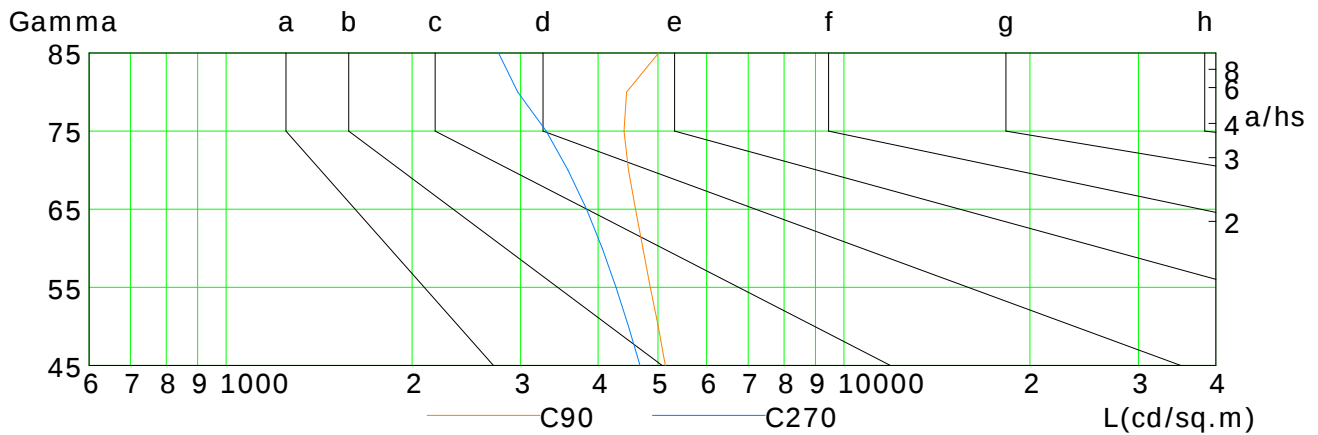
Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:



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



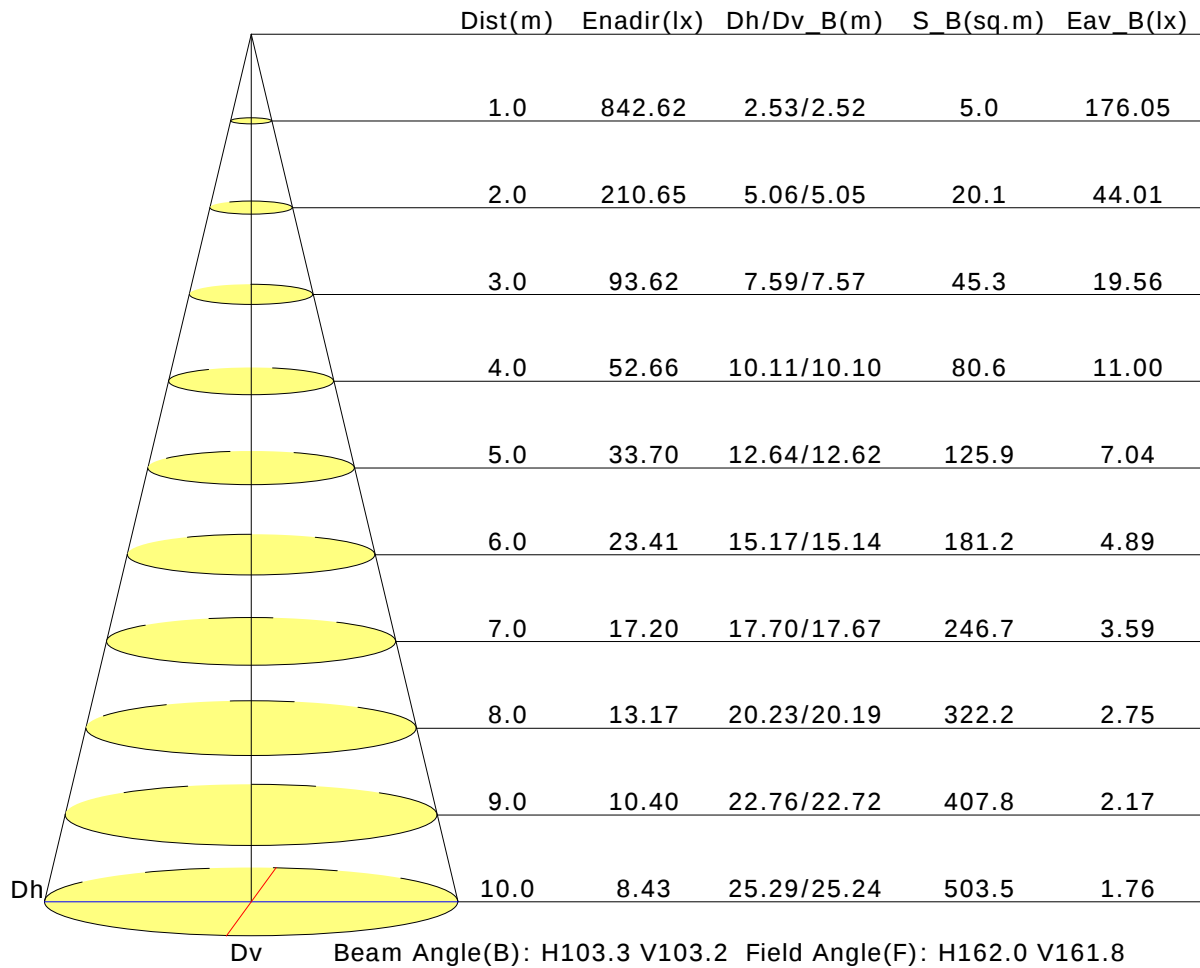
L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	4905	4737	4565	4388	4204	4021	3849	3701	3913
C90	5143	5011	4858	4730	4600	4480	4406	4448	5014
C180	4950	4784	4611	4433	4254	4077	3887	3725	3865
C270	4679	4483	4280	4064	3833	3578	3298	2966	2762

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:

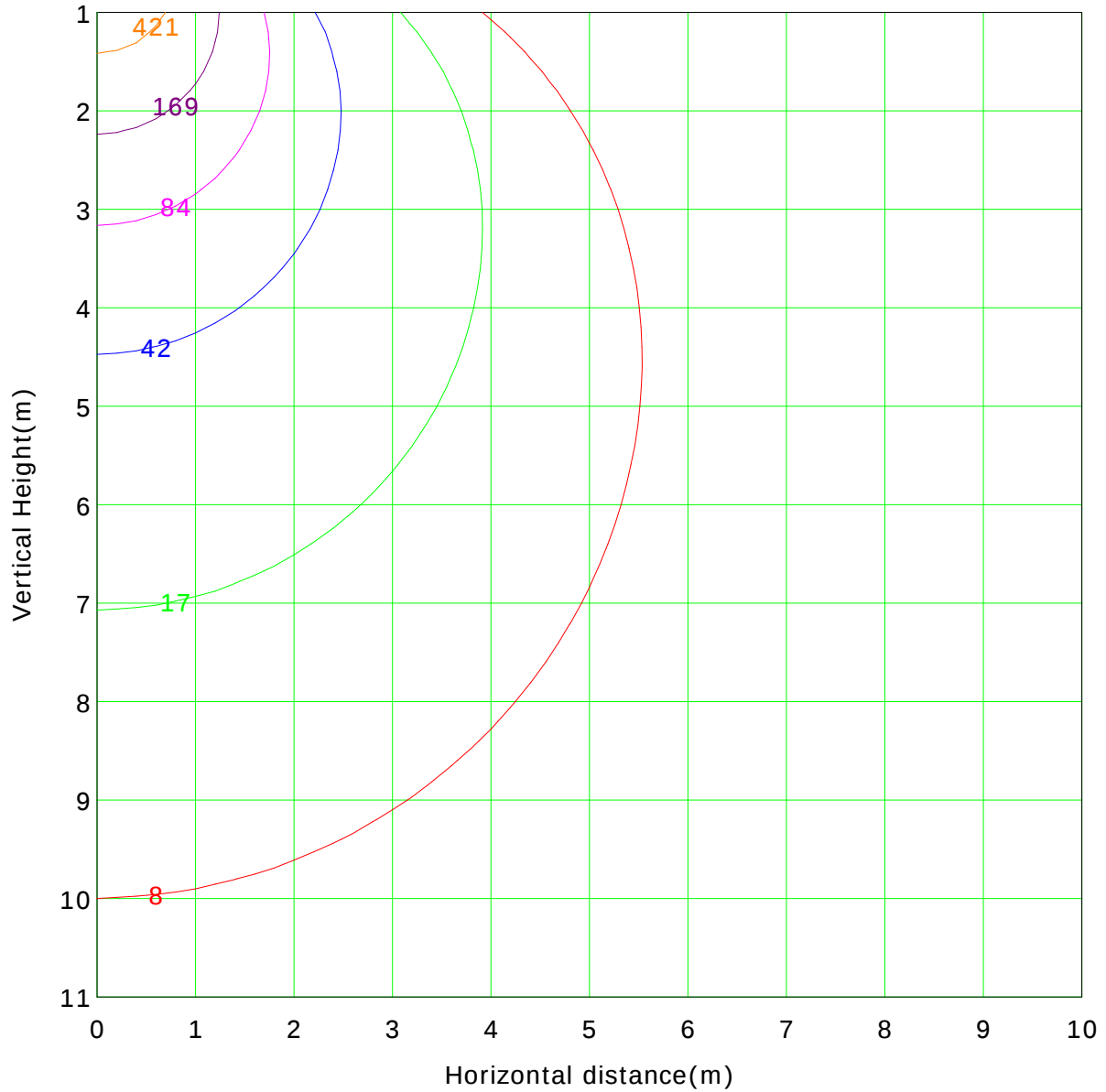


Illuminance at a Distance





Vertical IsoLux Plot



Lowest(m): 1.0m Highest(m): 11.0m Max Lux: 842.6 lx

(1%): 8.4 lx	(2%): 16.9 lx
(5%): 42.1 lx	(10%): 84.3 lx
(20%): 168.5 lx	(50%): 421.3 lx
(100%): 842.6 lx	

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:



Area Flux Table

Unit: lm

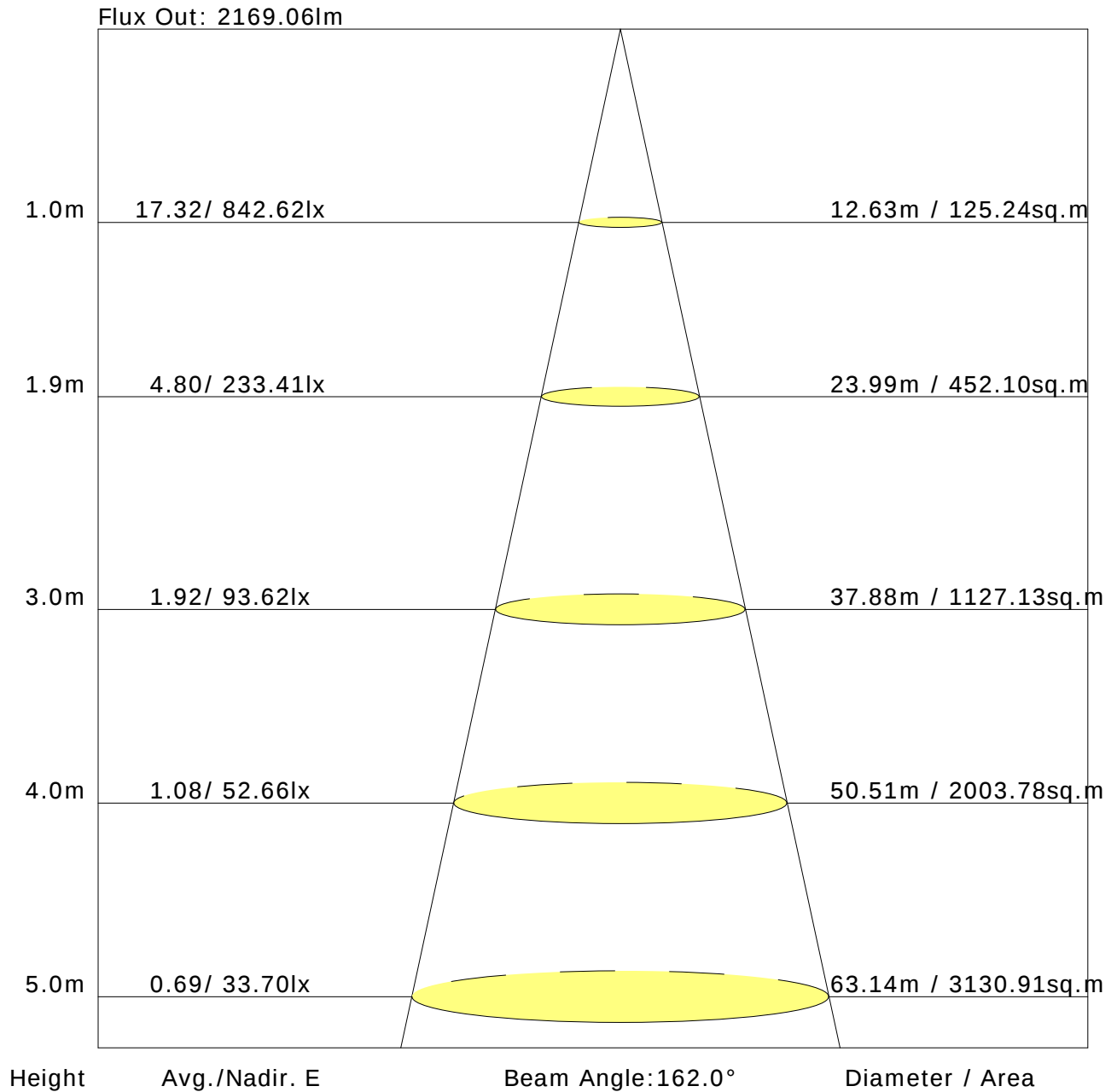
Flux(E)	Vertical plane																	Flux(T)	Flux(E)
	-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90
0.2	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.2
10.8	0.1	0.3	0.7	1.3	2.0	2.6	3.2	3.6	3.8	3.8	3.6	3.2	2.6	2.0	1.3	0.7	0.3	0.1	0.1
34.7	0.1	0.5	1.2	2.2	3.5	4.7	5.9	6.7	7.1	7.1	6.7	5.9	4.7	3.5	2.2	1.2	0.5	0.1	0.1
69.8	0.1	0.6	1.7	3.2	5.1	7.0	8.8	10.1	10.7	10.7	10.1	8.8	7.0	5.1	3.2	1.7	0.6	0.1	0.1
113.1	0.1	0.8	2.2	4.2	6.7	9.3	11.7	13.5	14.4	14.4	13.5	11.7	9.3	6.7	4.2	2.2	0.8	0.1	0.1
159.9	0.1	0.9	2.6	5.1	8.1	11.4	14.5	16.8	18.0	18.0	16.8	14.5	11.4	8.1	5.1	2.6	0.9	0.1	0.1
203.6	0.2	1.1	3.0	5.8	9.4	13.2	16.9	19.7	21.2	21.1	19.6	16.8	13.2	9.4	5.8	3.0	1.1	0.2	0.2
237.6	0.2	1.1	3.2	6.3	10.3	14.6	18.7	21.9	23.6	23.6	21.8	18.6	14.5	10.3	6.3	3.2	1.1	0.2	0.2
256.2	0.2	1.2	3.4	6.6	10.8	15.4	19.7	23.1	25.0	25.0	23.1	19.6	15.3	10.8	6.6	3.4	1.2	0.2	0.2
256.2	0.2	1.2	3.4	6.7	10.9	15.4	19.8	23.3	25.2	25.1	23.2	19.7	15.3	10.8	6.6	3.3	1.2	0.2	0.2
256.2	0.2	1.2	3.3	6.4	10.4	14.8	19.0	22.3	24.1	24.1	22.3	18.9	14.7	10.4	6.4	3.2	1.1	0.2	0.2
256.2	0.2	1.1	3.0	6.0	9.6	13.6	17.4	20.4	22.1	22.1	20.4	17.3	13.6	9.6	5.9	3.0	1.1	0.2	0.2
256.2	0.1	1.0	2.7	5.3	8.5	11.9	15.2	17.7	19.2	19.2	17.7	15.1	11.9	8.4	5.2	2.7	1.0	0.1	0.1
256.2	0.1	0.8	2.3	4.4	7.1	9.9	12.5	14.6	15.8	15.7	14.6	12.5	9.8	7.0	4.4	2.3	0.8	0.1	0.1
256.2	0.1	0.7	1.8	3.5	5.5	7.7	9.7	11.2	12.1	12.1	11.2	9.6	7.6	5.5	3.5	1.8	0.7	0.1	0.1
256.2	0.1	0.5	1.3	2.5	3.9	5.4	6.8	7.8	8.4	8.4	7.8	6.7	5.4	3.9	2.5	1.3	0.5	0.1	0.1
256.2	0.1	0.4	0.8	1.5	2.3	3.2	4.0	4.6	5.0	5.0	4.6	4.0	3.2	2.3	1.5	0.8	0.4	0.1	0.1
256.2	0.1	0.2	0.4	0.7	1.0	1.3	1.6	1.8	2.0	2.0	1.8	1.6	1.3	1.0	0.7	0.4	0.2	0.1	0.1
256.2	2.2	13.7	37.4	72.4	115.8	162.5	206.2	240.3	258.7	258.5	239.7	205.5	161.6	115.0	71.9	37.1	13.6	2.2	2214
2167	0.2	10.8	34.7	69.8	113.1	159.9	203.6	237.6	256.2	256.0	237.1	202.8	159.0	112.3	69.2	34.3	10.7	0.2	

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector:



The Average Illuminance Effective Figure





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	17.7	19.1	18.0	19.3	19.6	17.7	19.1	18.0	19.4	19.6
3H	19.3	20.5	19.6	20.8	21.1	19.3	20.5	19.6	20.8	21.1
4H	19.9	21.1	20.3	21.4	21.7	19.9	21.1	20.3	21.4	21.7
6H	20.4	21.6	20.8	21.9	22.2	20.5	21.6	20.9	21.9	22.2
8H	20.7	21.7	21.0	22.0	22.4	20.7	21.8	21.1	22.1	22.4
12H	20.8	21.8	21.2	22.2	22.5	20.9	21.9	21.3	22.2	22.6
X=4H Y=2H	18.4	19.6	18.7	19.9	20.2	18.4	19.6	18.7	19.9	20.2
3H	20.1	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
4H	20.9	21.8	21.3	22.2	22.6	20.9	21.9	21.3	22.2	22.6
6H	21.6	22.4	22.0	22.8	23.2	21.6	22.4	22.0	22.8	23.2
8H	21.9	22.6	22.3	23.0	23.4	21.9	22.7	22.3	23.1	23.5
12H	22.1	22.8	22.5	23.2	23.6	22.2	22.8	22.6	23.3	23.7
X=8H Y=4H	21.2	22.0	21.7	22.4	22.8	21.3	22.0	21.7	22.4	22.8
6H	22.1	22.7	22.6	23.1	23.6	22.1	22.7	22.6	23.2	23.6
8H	22.5	23.0	22.9	23.5	23.9	22.5	23.1	23.0	23.5	24.0
12H	22.8	23.3	23.3	23.8	24.3	22.9	23.3	23.4	23.8	24.3
X=12H Y=4H	21.3	22.0	21.7	22.4	22.8	21.3	22.0	21.8	22.4	22.8
6H	22.2	22.7	22.7	23.2	23.7	22.2	22.8	22.7	23.2	23.7
8H	22.6	23.1	23.1	23.6	24.1	22.7	23.1	23.1	23.6	24.1
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.3/-0.2				
S=1.5H	+0.4/-0.5					+0.5/-0.6				
S=2.0H	+0.5/-0.9					+0.5/-1.0				

Calculate in accordance with CIE Pub.117. The table is revised with 2216lm (8log(F/F0) = 2.8).

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	0.61	0.69	0.77	0.82	0.89	0.93	0.97	1.01	1.04	
	0.30		0.54	0.62	0.70	0.75	0.83	0.88	0.92	0.97	1.00	
	0.20		0.49	0.57	0.64	0.70	0.78	0.83	0.87	0.93	0.97	
0.50	0.50	0.20	0.60	0.67	0.74	0.79	0.85	0.90	0.93	0.97	0.99	
	0.30		0.53	0.61	0.68	0.73	0.80	0.85	0.89	0.93	0.97	
	0.20		0.48	0.56	0.63	0.69	0.76	0.81	0.85	0.91	0.94	
0.30	0.50	0.20	0.58	0.66	0.72	0.76	0.83	0.87	0.89	0.93	0.96	
	0.30		0.53	0.60	0.67	0.72	0.78	0.83	0.86	0.90	0.93	
	0.20		0.48	0.55	0.63	0.68	0.75	0.80	0.83	0.88	0.91	
0.00	0.00	0.00	0.46	0.53	0.60	0.65	0.71	0.76	0.79	0.84	0.86	
Rating:21W 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 = 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	0.93	0.79	0.67	0.58	0.47	0.39	0.33	0.26	0.21	
	0.30		0.77	0.67	0.58	0.51	0.42	0.36	0.31	0.25	0.20	
	0.20		0.66	0.59	0.52	0.46	0.38	0.33	0.29	0.23	0.19	
0.50	0.50	0.20	0.89	0.76	0.64	0.56	0.45	0.40	0.32	0.25	0.20	
	0.30		0.76	0.66	0.56	0.50	0.41	0.34	0.30	0.23	0.19	
	0.20		0.66	0.58	0.51	0.45	0.37	0.32	0.28	0.22	0.19	
0.30	0.50	0.20	0.87	0.73	0.61	0.53	0.43	0.35	0.30	0.24	0.19	
	0.30		0.74	0.64	0.55	0.48	0.39	0.33	0.29	0.23	0.19	
	0.20		0.65	0.57	0.50	0.44	0.37	0.31	0.27	0.22	0.18	
0.00	0.00	0.00	0.54	0.47	0.40	0.35	0.29	0.24	0.21	0.17	0.14	
Rating:21W 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 = 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	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	
0.50	0.50	0.20	0.15	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.16	
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	
	0.20		0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Rating:21W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												



Zonal Lumen

[illegible]

Inspector:



Zonal Lumen (Continue 1)

cone flux(90°): 1220.26 lm

%lum = 55.1%

%lamp = 55.1%

cone flux(120°): 1750.44 lm

%lum = 79.0%

%lamp = 79.0%



Unit: cd

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

Gamma Plane (°):0.0-90.0:5.0
Test Device: GPM-1600L
Distance: 7.305 m [K=1.0000]
Humidity:
Inspector: