

Report No.: 1

Test Time: 09.12.2019 16:07

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 300 4x40LED 0.3A 15W 5000K opal 1.35mm (40) Griliyato

Luminous Length (mm): 286

Luminous Width (mm): 286

Luminous Height (mm): 40

Voltage: 221.3 V

Current: 0.073 A

Power: 15.25 W

Power Factor: 0.939

Photometric Results

CIE Class: Direct

Measurement Flux: 1692.1 lm

Downward Ratio: 99%

Total Rated Lamp Lumens: 1692.1 lm

Efficiency: 100%

Upward Ratio: 1%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.8, 164.2, 164.7, 164.6

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.4, 111.5, 111.5, 111.5

Luminaire Efficacy Rating (LER): 111.01

Central Intensity: 590.84 cd

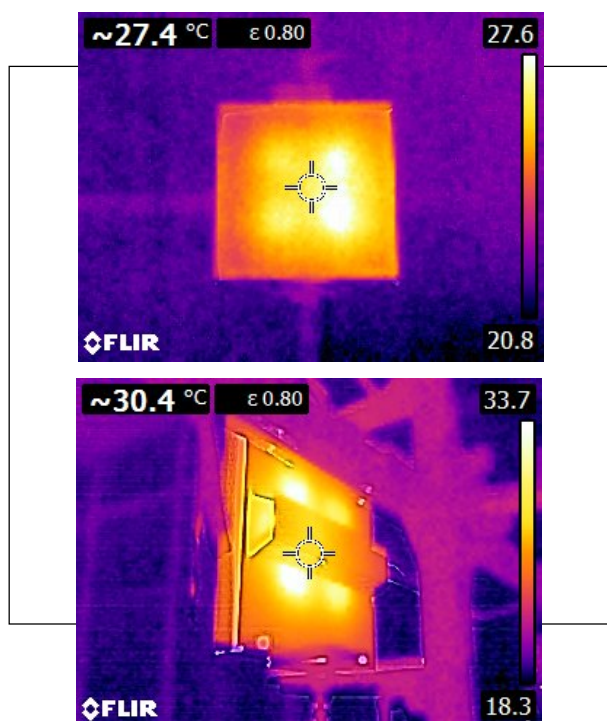
Max. Intensity: 591.35 cd

Pos of Max. Intensity: H180 V2

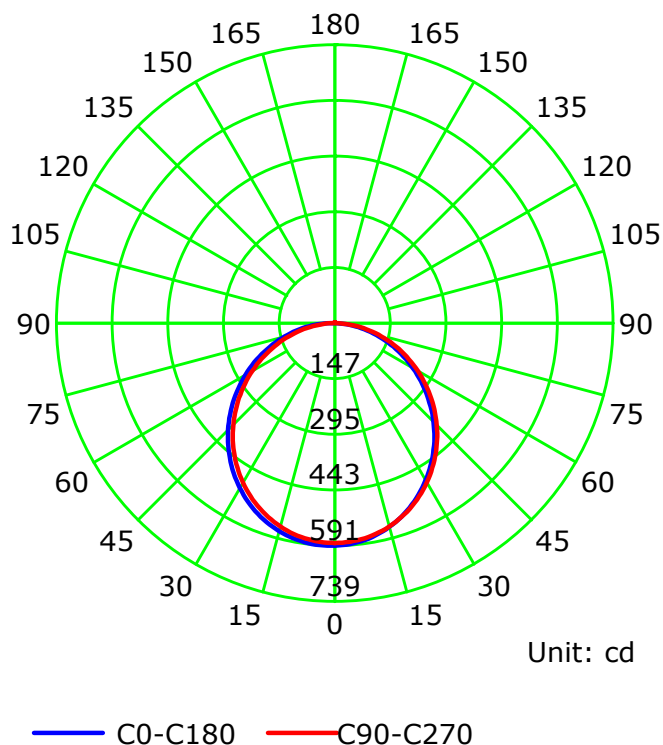
S/MH(C0/C180): 1.24

S/MH(C90/C270): 1.24

Termogramma



Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:1.0

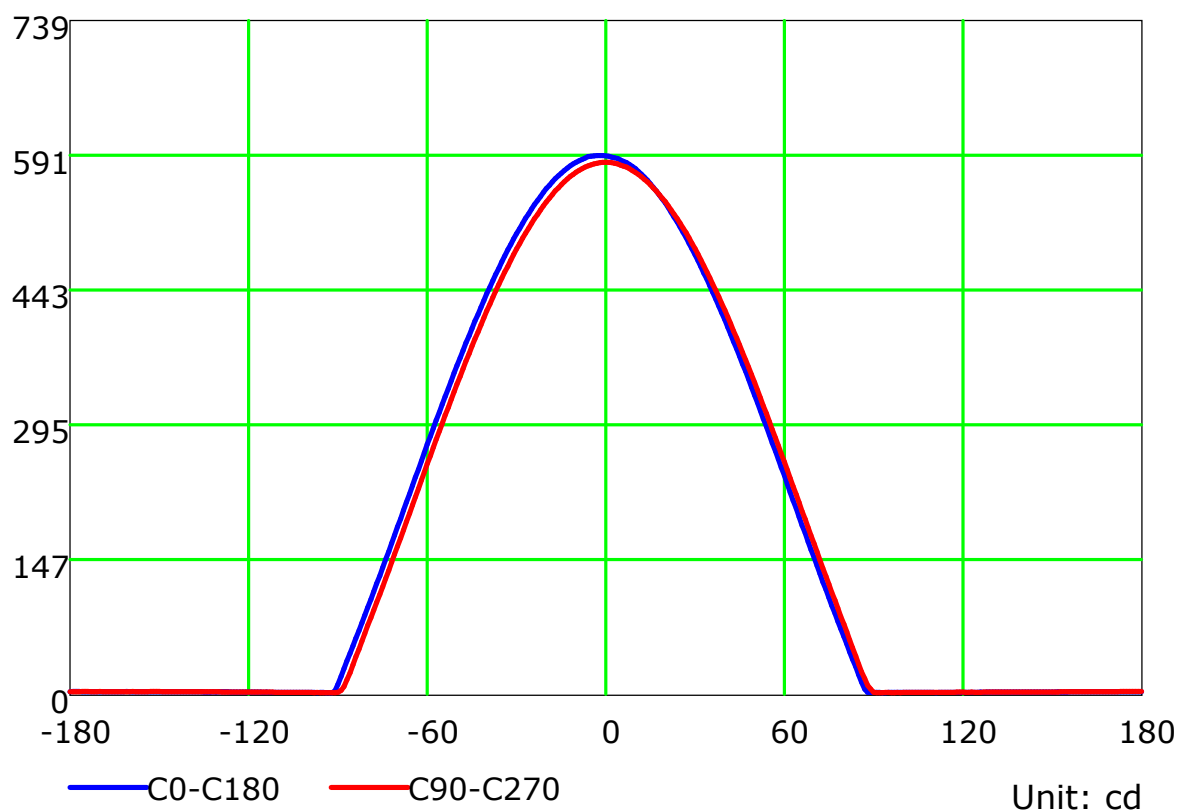
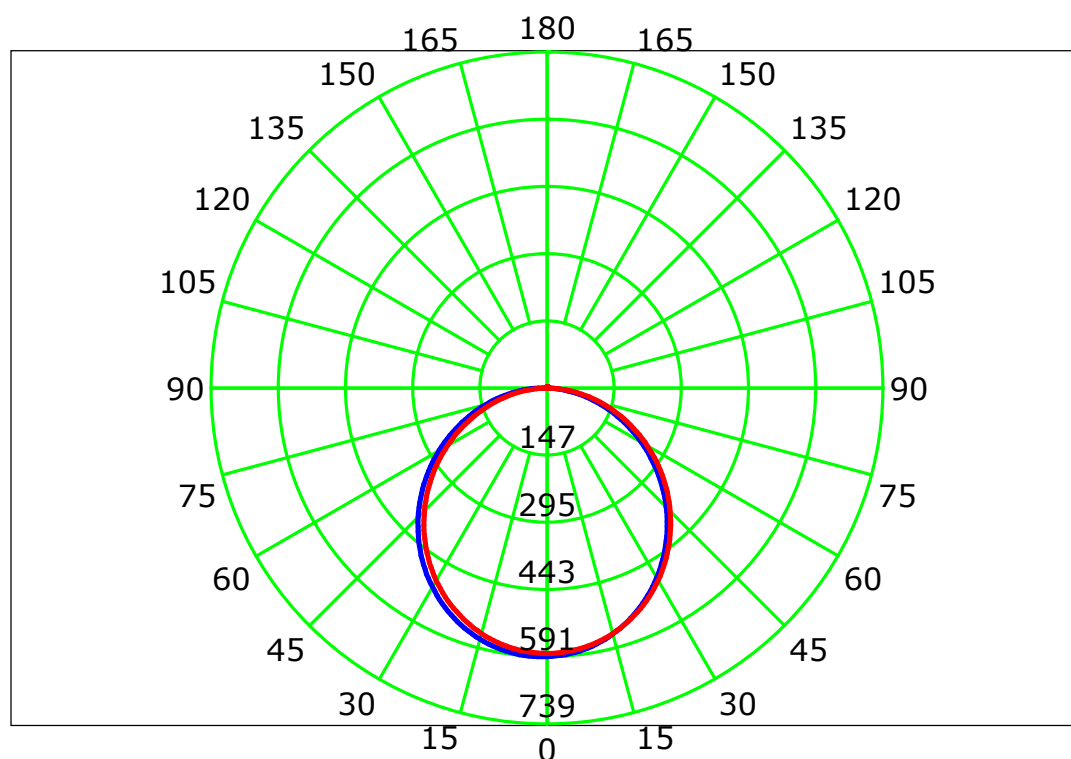
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

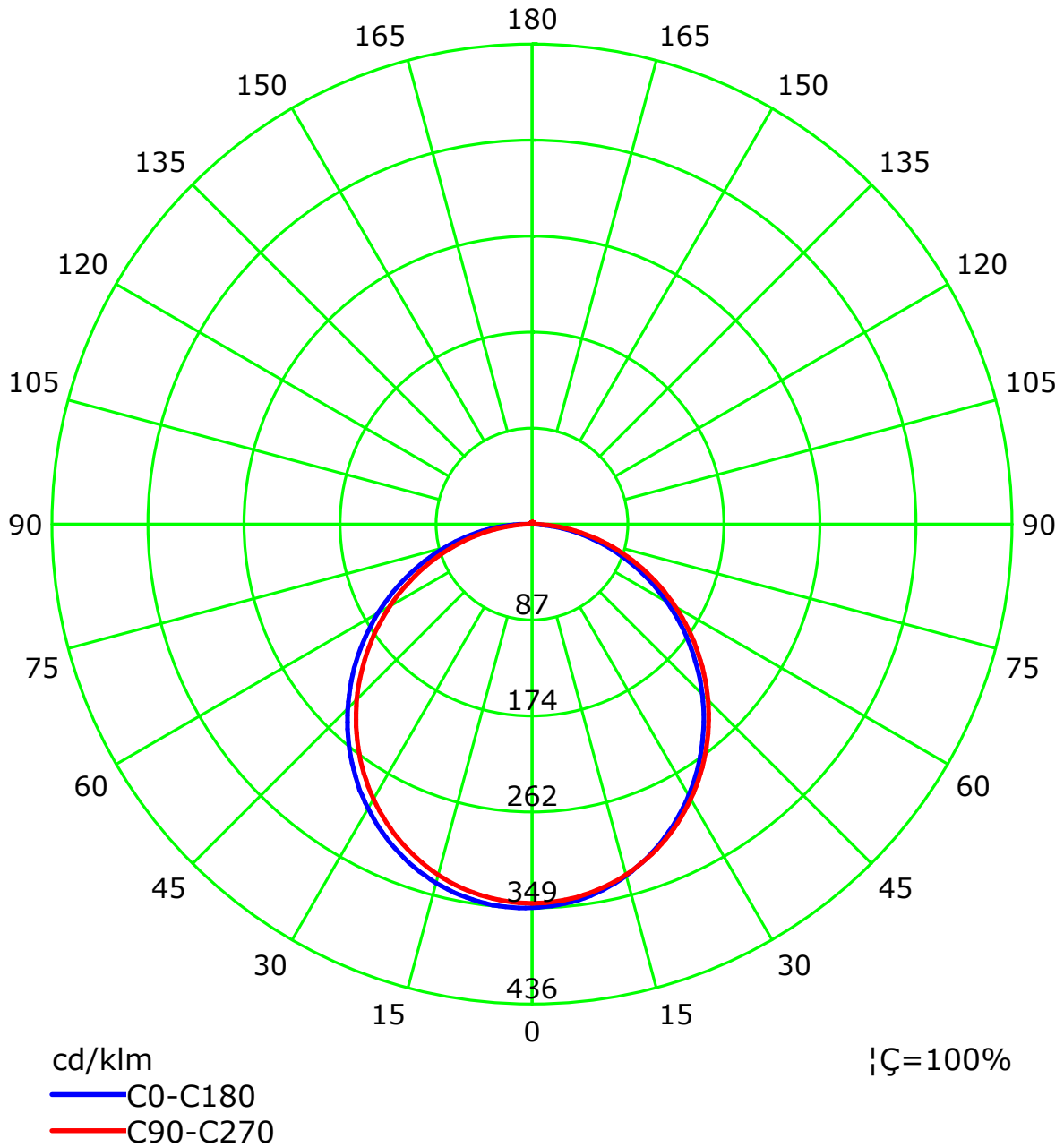
Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

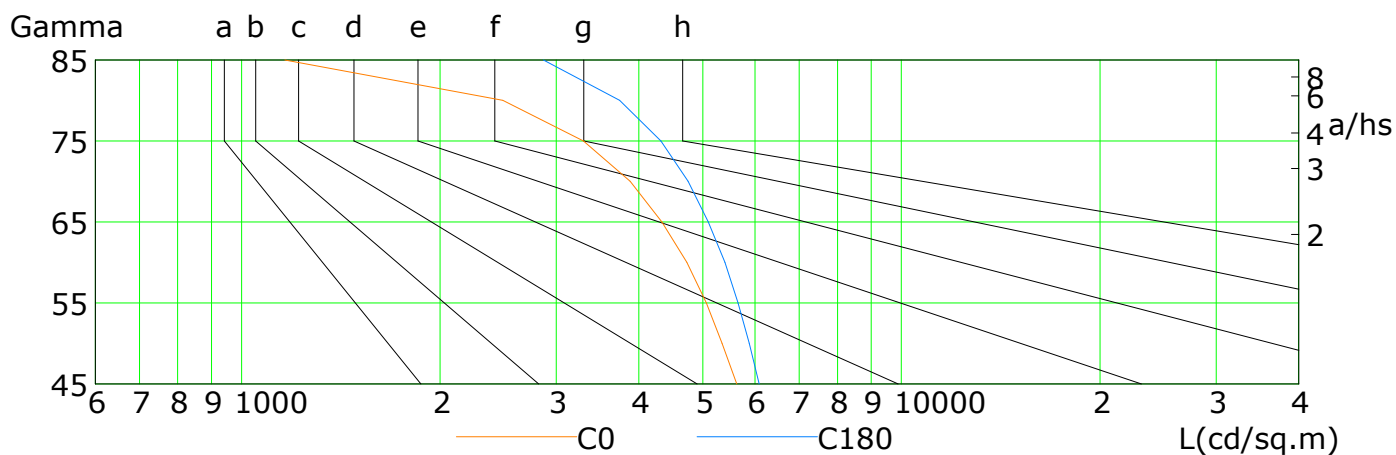
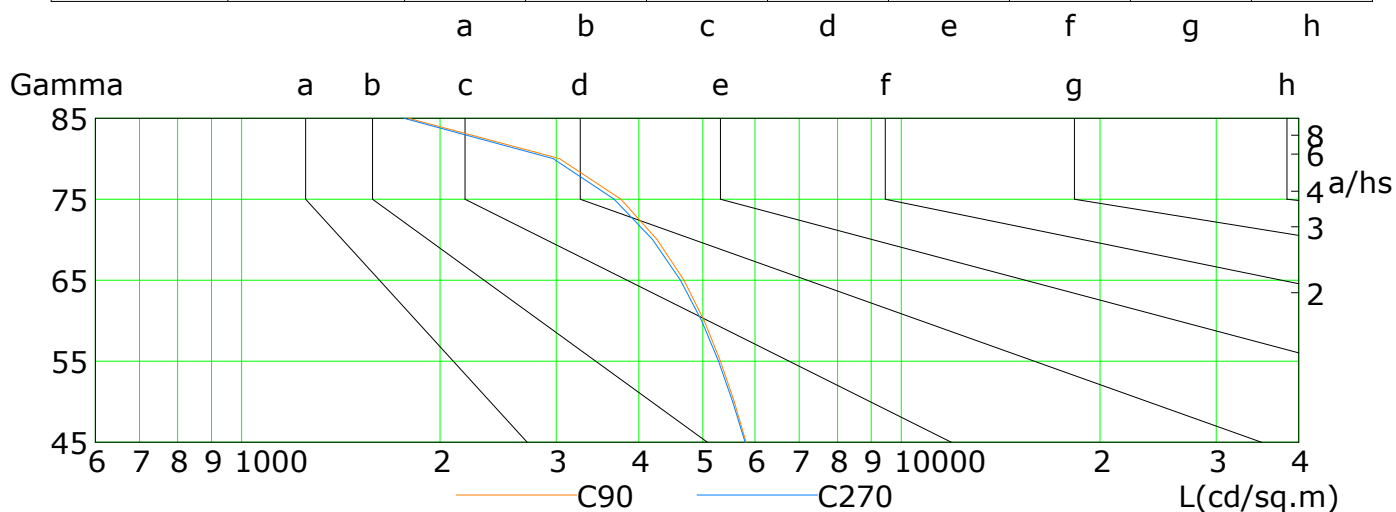
Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Luminous Intensity Distribution Curve(cd/klm)



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

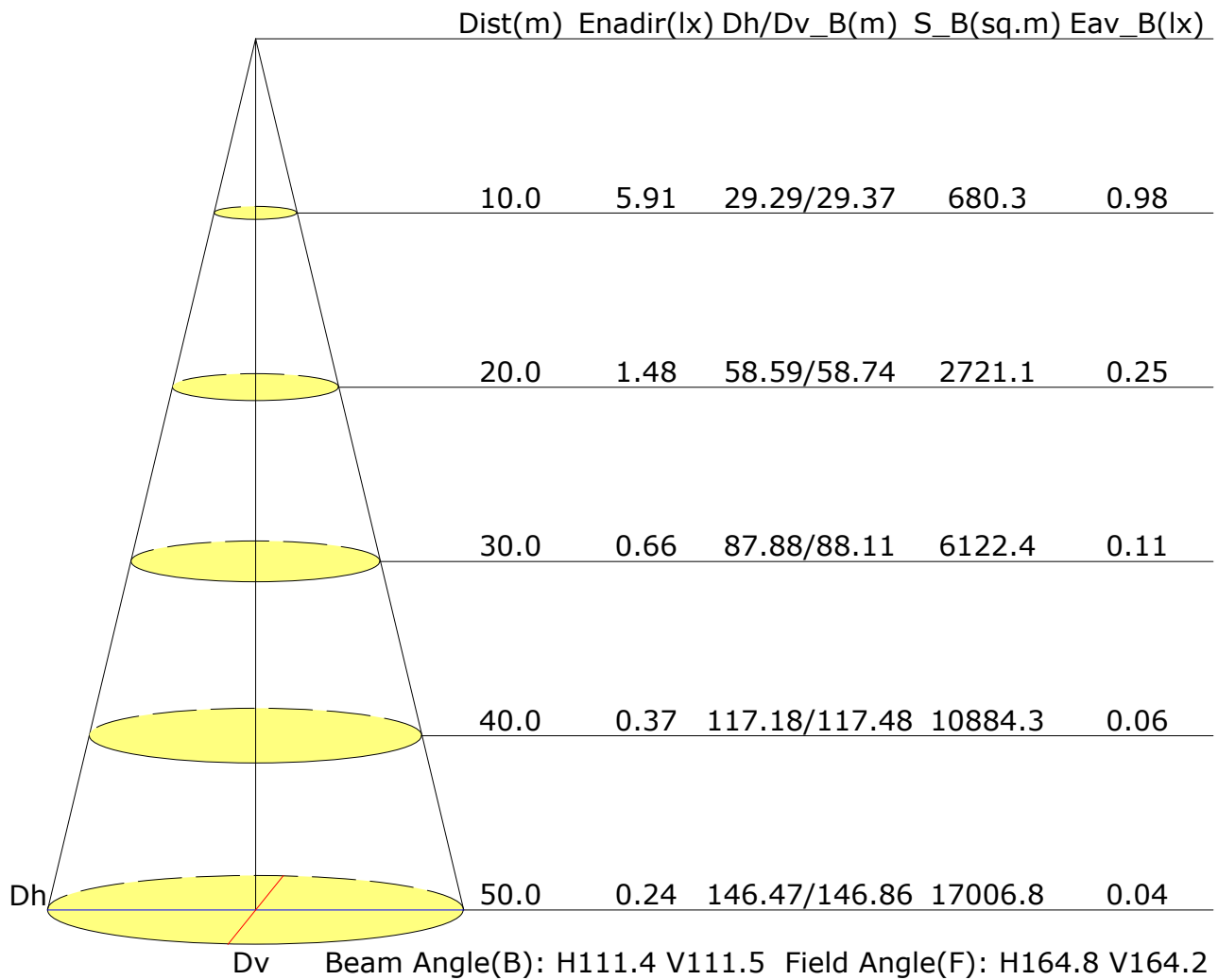


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	5629	5351	5064	4731	4337	3880	3299	2488	1163
C90	5813	5578	5316	5022	4684	4264	3756	3032	1791
C180	6089	5884	5655	5402	5096	4750	4319	3739	2869
C270	5795	5549	5283	4979	4625	4196	3670	2965	1761

C Plane (°):0.0-360.0: 22.5
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 Temperature:
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 Inspector:

Illuminance at a Distance



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	17.8	19.2	18.1	19.5	19.7	18.1	19.5	18.4	19.7	20.0
3H	19.2	20.5	19.6	20.8	21.1	19.6	20.8	19.9	21.1	21.4
4H	19.7	20.9	20.1	21.2	21.6	20.2	21.3	20.5	21.7	22.0
6H	20.1	21.2	20.5	21.5	21.9	20.6	21.7	21.0	22.0	22.4
8H	20.2	21.2	20.6	21.6	21.9	20.7	21.8	21.1	22.1	22.5
12H	20.2	21.2	20.6	21.6	21.9	20.8	21.8	21.2	22.1	22.5
X=4H Y=2H	18.4	19.6	18.8	19.9	20.3	18.6	19.8	19.0	20.1	20.5
3H	20.0	21.0	20.4	21.4	21.7	20.3	21.3	20.7	21.7	22.0
4H	20.6	21.6	21.1	21.9	22.3	21.0	21.9	21.4	22.3	22.7
6H	21.1	21.9	21.5	22.3	22.7	21.5	22.4	22.0	22.8	23.2
8H	21.2	22.0	21.7	22.4	22.8	21.7	22.5	22.2	22.9	23.3
12H	21.3	21.9	21.7	22.4	22.8	21.8	22.5	22.3	22.9	23.4
X=8H Y=4H	20.9	21.6	21.3	22.1	22.5	21.2	22.0	21.7	22.4	22.8
6H	21.4	22.1	21.9	22.5	23.0	21.9	22.5	22.4	22.9	23.4
8H	21.6	22.2	22.1	22.6	23.1	22.1	22.7	22.6	23.1	23.6
12H	21.7	22.2	22.2	22.7	23.2	22.3	22.7	22.8	23.2	23.7
X=12H Y=4H	20.9	21.6	21.4	22.0	22.5	21.2	21.9	21.7	22.3	22.8
6H	21.5	22.0	22.0	22.5	23.0	21.9	22.5	22.4	22.9	23.4
8H	21.7	22.2	22.2	22.7	23.2	22.2	22.6	22.7	23.1	23.7
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.2/-0.2				
S=1.5H	+0.3/-0.5					+0.3/-0.5				
S=2.0H	+0.6/-0.9					+0.6/-0.8				

Calculate in accordance with CIE Pub.117. The table is revised with 1692lm ($8\log(F/F_0) = 1.8$).

C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
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Gamma Plane (°):0.0-180.0:1.0
 Test Device: LSG-1800B
 Distance: 12.677 m
 Humidity:
 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	0.56	0.66	0.73	0.79	0.86	0.91	0.95	1.00	1.03	
	0.30		0.48	0.58	0.66	0.72	0.80	0.85	0.90	0.95	0.99	
	0.20		0.42	0.52	0.60	0.66	0.74	0.81	0.85	0.91	0.95	
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.95	0.98	
	0.30		0.47	0.57	0.64	0.70	0.77	0.83	0.87	0.92	0.95	
	0.20		0.42	0.52	0.59	0.65	0.73	0.79	0.83	0.89	0.92	
0.30	0.50	0.20	0.53	0.62	0.68	0.73	0.80	0.84	0.87	0.91	0.94	
	0.30		0.46	0.56	0.63	0.68	0.75	0.80	0.84	0.89	0.92	
	0.20		0.41	0.51	0.58	0.64	0.71	0.77	0.81	0.86	0.89	
0.00	0.00	0.00	0.39	0.48	0.55	0.60	0.68	0.73	0.76	0.81	0.84	
Rating:15W 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 = 1.25									
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	1.01	0.84	0.71	0.62	0.50	0.42	0.36	0.28	0.23	
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22	
	0.20		0.72	0.62	0.55	0.50	0.41	0.35	0.31	0.25	0.21	
0.50	0.50	0.20	0.97	0.80	0.68	0.60	0.48	0.43	0.34	0.26	0.22	
	0.30		0.82	0.70	0.60	0.53	0.44	0.37	0.32	0.25	0.21	
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.24	0.20	
0.30	0.50	0.20	0.94	0.77	0.66	0.57	0.46	0.38	0.32	0.25	0.21	
	0.30		0.80	0.68	0.59	0.52	0.42	0.35	0.31	0.24	0.20	
	0.20		0.70	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19	
0.00	0.00	0.00	0.60	0.51	0.44	0.39	0.32	0.27	0.23	0.18	0.15	
Rating:15W 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 = 1.25									
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	0.19	0.20	0.20	0.21	0.22	0.22	0.23	0.23	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.18	
0.50	0.50	0.20	0.17	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.19	
	0.20		0.05	0.07	0.08	0.10	0.12	0.13	0.14	0.16	0.17	
0.30	0.50	0.20	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.16	0.17	
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:15W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												