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Report No.: Test Time: 23.06.2020 18:18

Luminaire Property

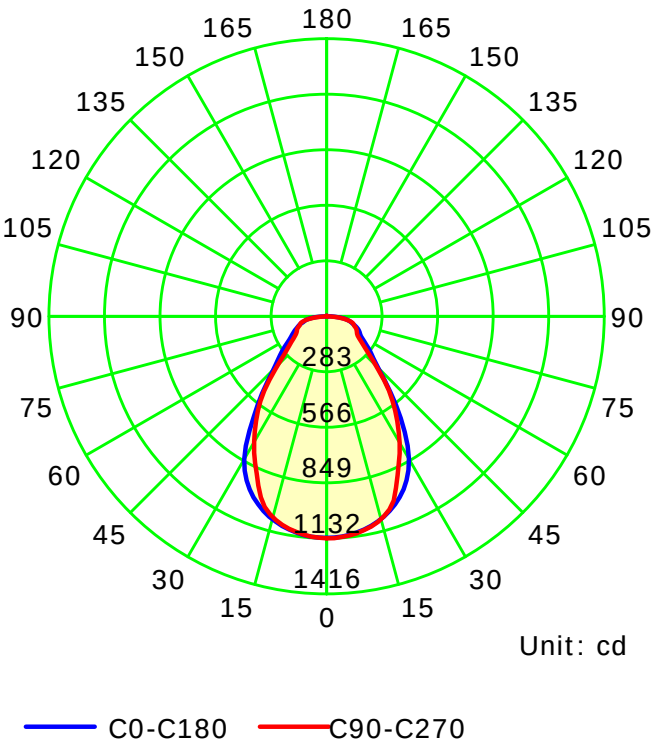
Luminaire Manufacturer:
Luminaire Description: FL 60/1000 17W 4000K микропризма
Number of Lamps: 1 Luminous Length (mm): 950
Luminous Width (mm): 60 Luminous Height (mm): 70
Voltage: 222.3 V Current: 0.081 A
Power: 16.94 W Power Factor: 0.938

Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 2073.6 lm
Measurement Flux: 2073.6 lm Efficiency: 100%
Downward Ratio: 100% Upward Ratio: 0%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 157.9, 158.5, 146.7, 147.0
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 76.5, 74.5, 73.0, 73.4
Luminaire Efficacy Rating (LER): 122.46 Central Intensity: 1130.31 cd
Max. Intensity: 1132.83 cd Pos of Max. Intensity: H67.5 V2
S/MH(C0/C180): 1.13 S/MH(C90/C270): 1.03

Termogramma

Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 22.5 Gamma Plane (°):0.0-180.0:2.0
Test Lab: Test Device: LSG-1800B
Test Type: TYPE C Distance: 12.677 m
Temperature: Humidity:
Operator: Inspector:

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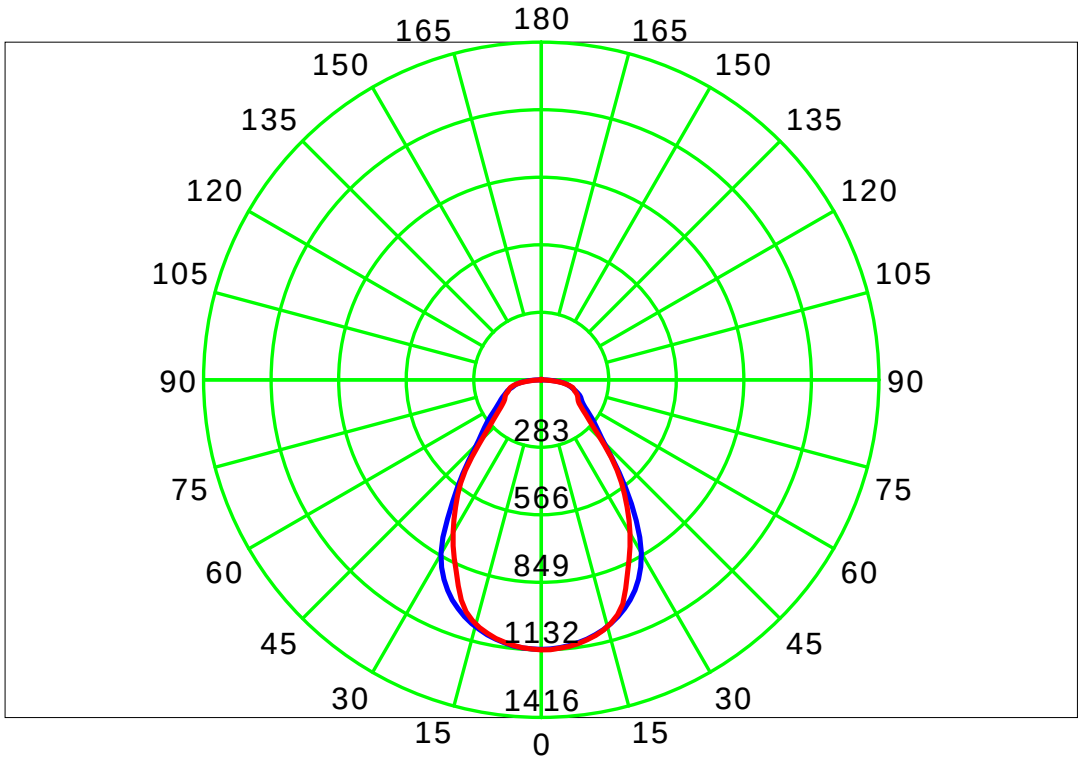
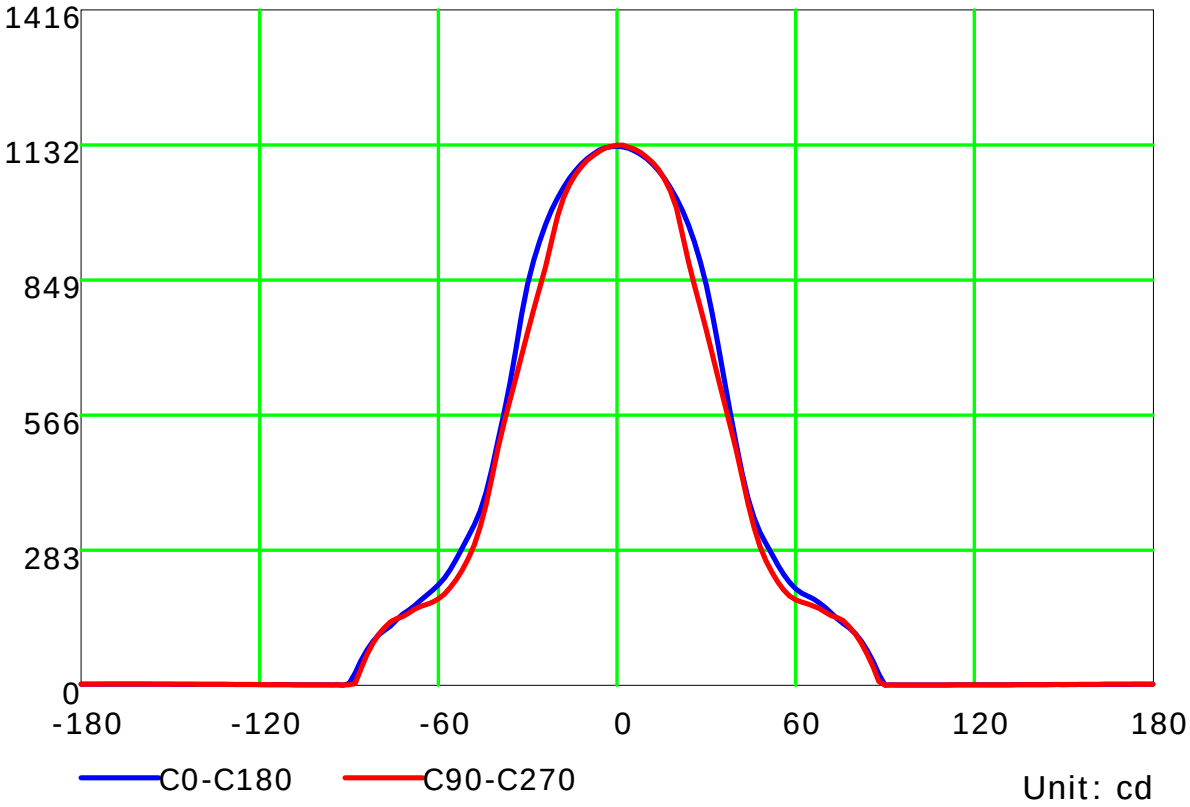
Luminous Intensity Distribution Curve





C Plane (°):0.0-360.0: 22.5
Test Lab:
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Test Device: LSG-1800B
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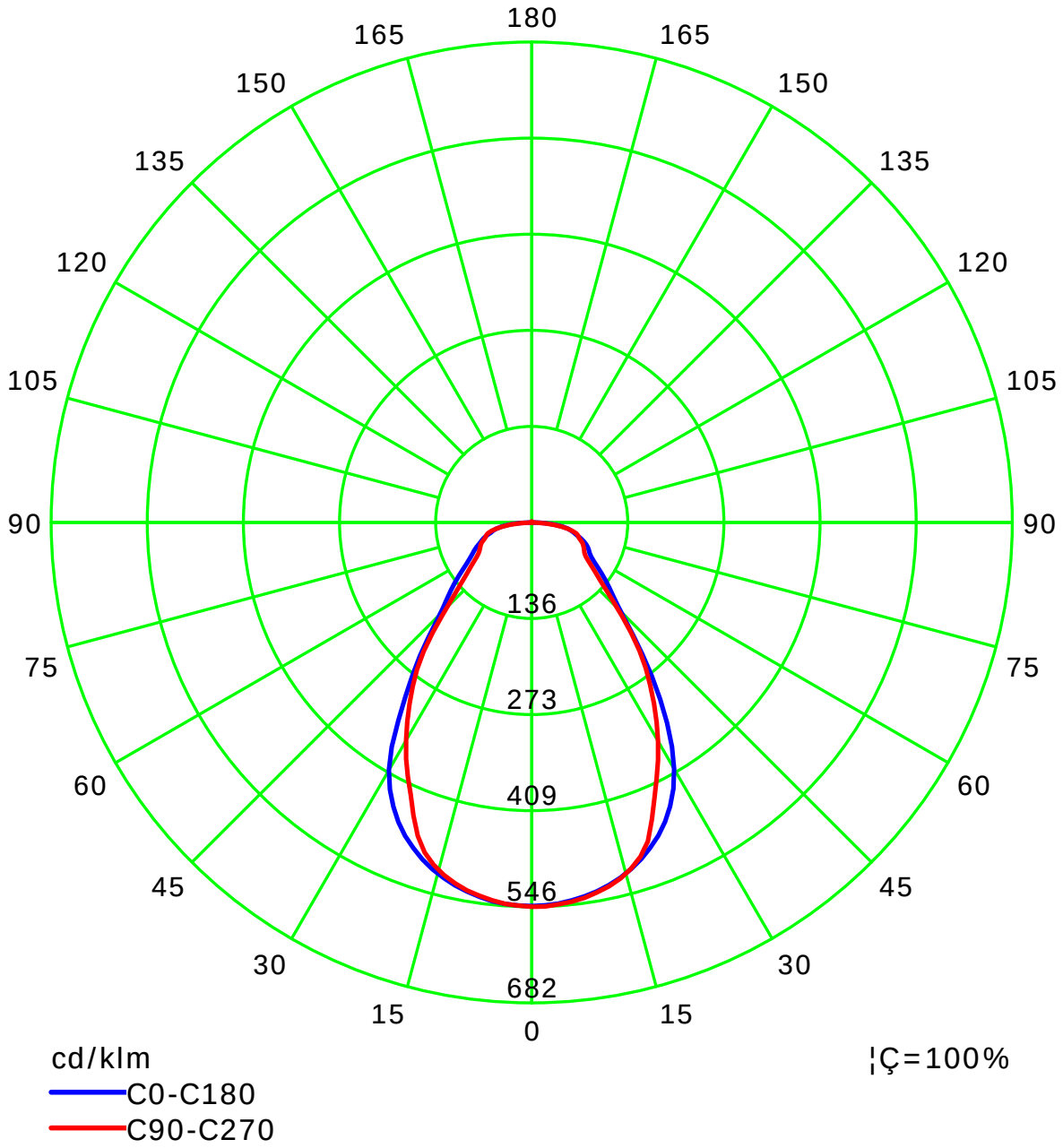
Luminous Intensity Distribution Curve(cd/klm)



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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
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Humidity:
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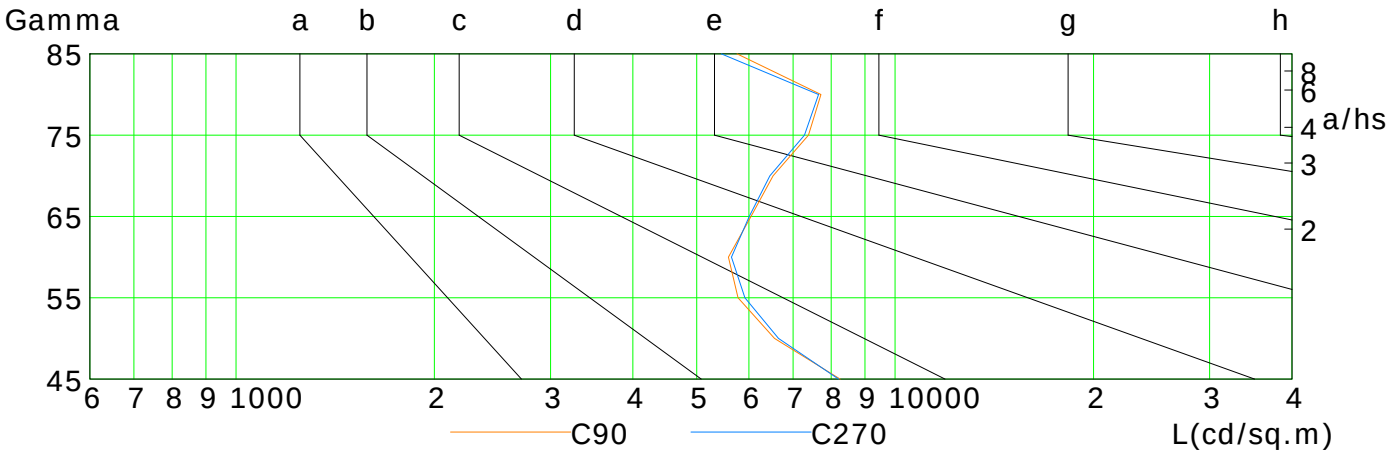
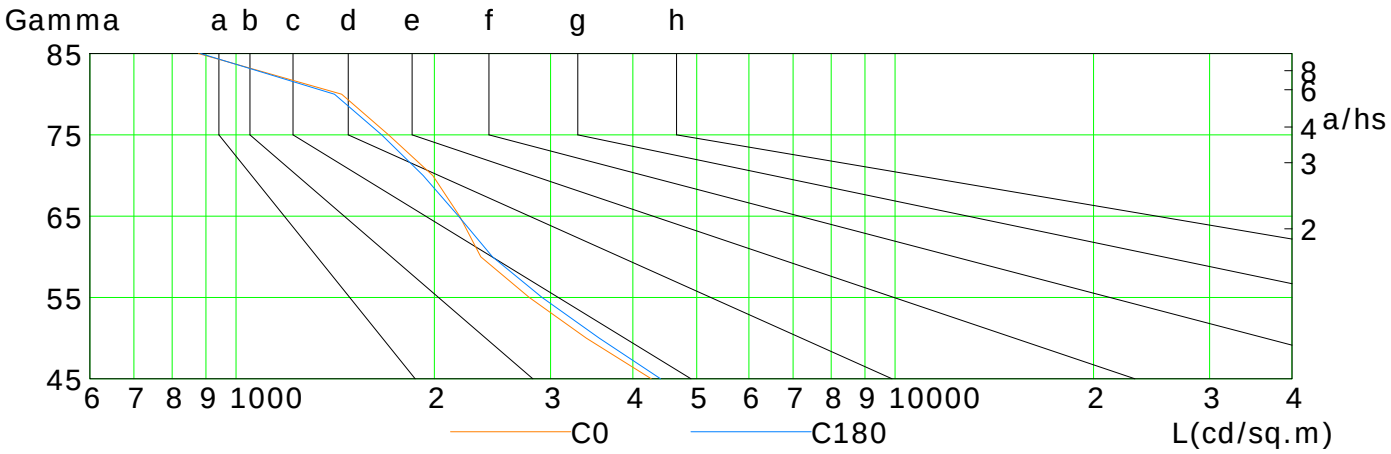
Lum Limit Curve

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	4267	3399	2785	2352	2185	1988	1704	1447	877
C90	8251	6561	5775	5586	6043	6528	7389	7718	5755
C180	4407	3557	2912	2449	2175	1923	1663	1411	884
C270	8208	6653	5918	5644	6006	6458	7285	7653	5450

C Plane (°):0.0-360.0: 22.5
Test Lab:
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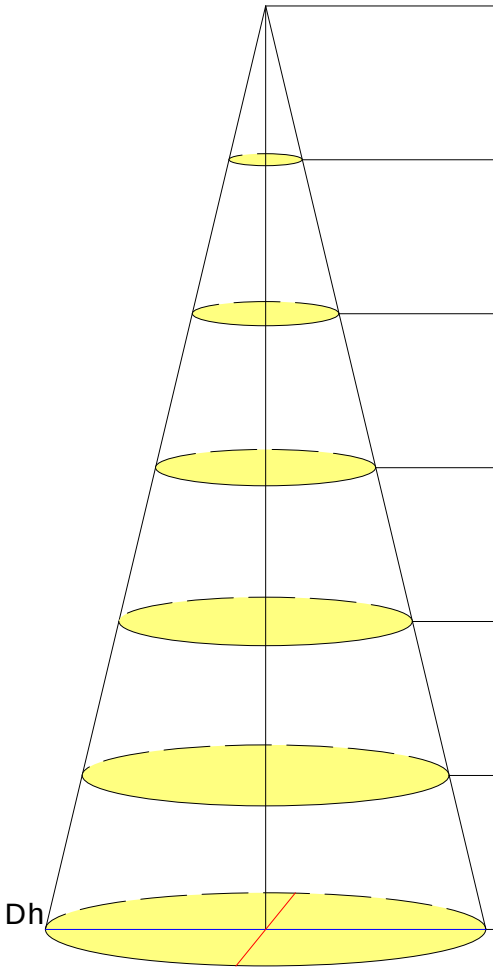
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	45.21	7.88/7.60	45.1	21.45
10.0	11.30	15.76/15.20	180.5	5.36
15.0	5.02	23.64/22.80	406.0	2.38
20.0	2.83	31.51/30.40	721.8	1.34
25.0	1.81	39.39/38.00	1127.8	0.86
30.0	1.26	47.27/45.60	1624.1	0.60

Beam Angle(B): H76.5 V74.5 Field Angle(F): H157.9 V158.5

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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
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	15.6	16.8	15.9	17.1	17.3	16.7	17.9	17.0	18.2	18.4
3H	16.8	17.9	17.1	18.2	18.4	18.4	19.5	18.7	19.8	20.0
4H	17.3	18.4	17.7	18.7	19.0	19.4	20.4	19.7	20.7	21.0
6H	17.8	18.8	18.2	19.1	19.4	20.4	21.4	20.7	21.7	22.0
8H	18.0	19.0	18.4	19.3	19.6	20.8	21.7	21.1	22.1	22.4
12H	18.1	19.0	18.5	19.4	19.7	21.0	21.9	21.4	22.3	22.6
X=4H Y=2H	16.0	17.1	16.3	17.4	17.7	16.9	18.0	17.3	18.3	18.6
3H	17.4	18.3	17.8	18.6	19.0	18.8	19.7	19.2	20.0	20.4
4H	18.1	18.9	18.5	19.3	19.6	19.9	20.7	20.3	21.1	21.5
6H	18.7	19.5	19.1	19.8	20.3	21.1	21.8	21.5	22.2	22.6
8H	19.0	19.6	19.4	20.1	20.5	21.5	22.2	22.0	22.6	23.0
12H	19.1	19.7	19.6	20.2	20.6	21.8	22.4	22.3	22.9	23.3
X=8H Y=4H	18.3	19.0	18.8	19.4	19.8	20.0	20.7	20.5	21.1	21.5
6H	19.1	19.6	19.6	20.1	20.6	21.3	21.8	21.7	22.3	22.7
8H	19.4	19.9	19.9	20.4	20.9	21.8	22.3	22.3	22.7	23.2
12H	19.6	20.1	20.1	20.6	21.1	22.2	22.6	22.7	23.1	23.6
X=12H Y=4H	18.4	19.0	18.8	19.4	19.9	20.0	20.6	20.5	21.0	21.5
6H	19.2	19.7	19.6	20.1	20.6	21.3	21.8	21.8	22.2	22.7
8H	19.5	19.9	20.0	20.4	20.9	21.8	22.2	22.3	22.7	23.2
Variations with the observer position at spacings:										
S=1.0H	+0.3/-0.4					+0.3/-0.3				
S=1.5H	+0.7/-0.9					+0.7/-0.7				
S=2.0H	+1.4/-1.1					+1.3/-1.2				

Calculate in accordance with CIE Pub.117. The table is revised with 2074lm (8log(F/F0) = 2.5).

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

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)											SHR NOM = 1.00
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	0.64	0.73	0.79	0.84	0.90	0.95	0.98	1.02	1.04
	0.30		0.57	0.66	0.73	0.77	0.85	0.90	0.93	0.98	1.01
	0.20		0.52	0.61	0.67	0.72	0.80	0.85	0.89	0.95	0.98
0.50	0.50	0.20	0.62	0.71	0.77	0.81	0.87	0.91	0.94	0.98	1.00
	0.30		0.56	0.65	0.71	0.76	0.82	0.87	0.90	0.95	0.97
	0.20		0.51	0.60	0.67	0.71	0.78	0.83	0.87	0.92	0.95
0.30	0.50	0.20	0.61	0.69	0.75	0.79	0.84	0.88	0.91	0.94	0.96
	0.30		0.55	0.64	0.70	0.74	0.80	0.84	0.87	0.91	0.94
	0.20		0.51	0.60	0.66	0.70	0.77	0.81	0.85	0.89	0.92
0.00	0.00	0.00	0.49	0.57	0.63	0.67	0.73	0.77	0.81	0.85	0.87

Rating:17W 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: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Wall)

Utilisation Factors UF(W)											SHR NOM = 1.00
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	0.89	0.74	0.63	0.55	0.44	0.37	0.32	0.25	0.20
	0.30		0.74	0.63	0.55	0.49	0.40	0.34	0.29	0.23	0.19
	0.20		0.64	0.55	0.49	0.44	0.37	0.31	0.27	0.22	0.19
0.50	0.50	0.20	0.86	0.71	0.60	0.53	0.42	0.39	0.30	0.24	0.19
	0.30		0.72	0.61	0.53	0.47	0.39	0.33	0.28	0.22	0.19
	0.20		0.63	0.54	0.48	0.43	0.36	0.30	0.27	0.21	0.18
0.30	0.50	0.20	0.83	0.68	0.58	0.50	0.40	0.33	0.29	0.22	0.18
	0.30		0.71	0.60	0.52	0.46	0.37	0.31	0.27	0.21	0.18
	0.20		0.62	0.53	0.47	0.42	0.35	0.29	0.26	0.20	0.17
0.00	0.00	0.00	0.51	0.43	0.37	0.33	0.27	0.22	0.19	0.15	0.13

Rating:17W 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: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

Gamma Plane (°):0.0-180.0:2.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
Inspector:

Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.00								
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	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	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	0.17
0.50	0.50	0.20	0.15	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	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	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.10	0.11	0.13	0.14	0.15	0.16
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Rating:17W 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: 22.5
Test Lab:
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Test Device: LSG-1800B
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