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Report No.: 1 Test Time: 02.12.2019 14:14

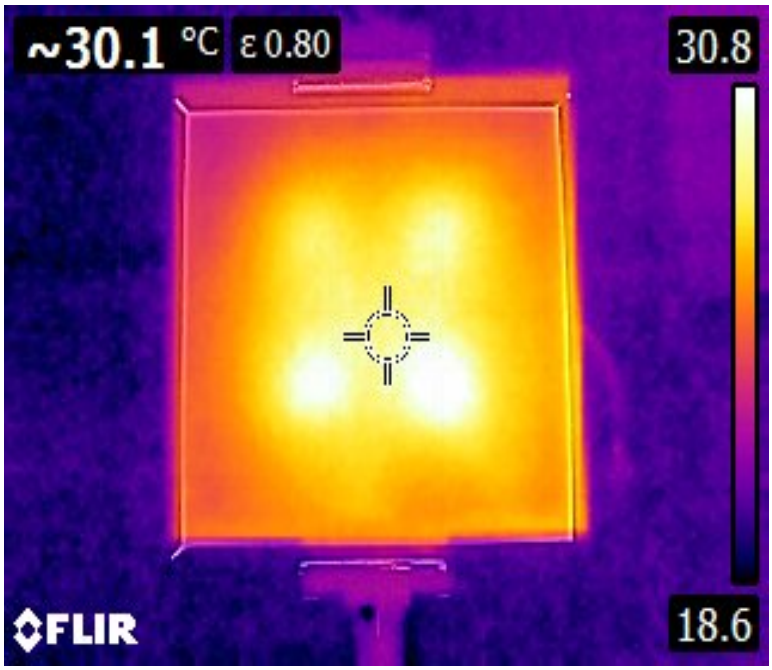
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FG 300 40LED 0,3A 30W 5000K opal 1,35mm (40) Griliyato
Luminous Length (mm): 286 Luminous Width (mm): 286
Luminous Height (mm): 40 Voltage: 221.4 V
Current: 0.142 A Power: 30.55 W
Power Factor: 0.967

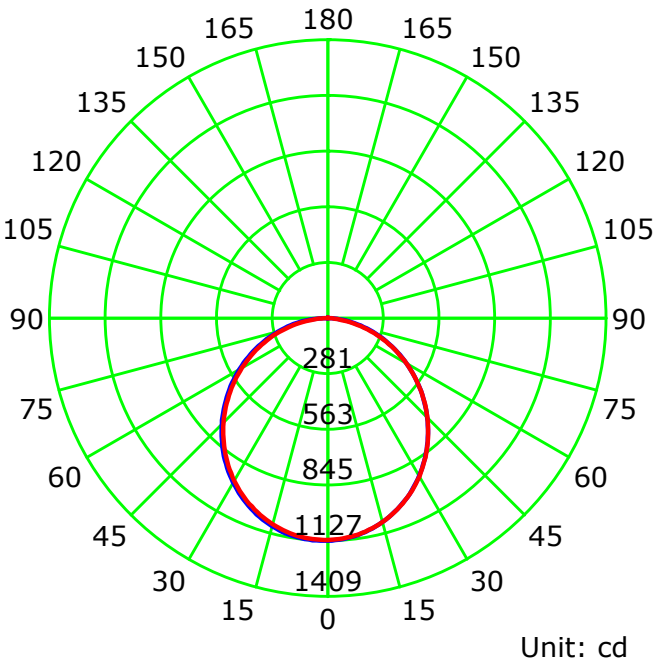
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 3216.1 lm
Measurement Flux: 3216.1 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 164.7, 161.3, 163.1, 163.2
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 111.2, 110.6, 111.1, 111.0
Luminaire Efficacy Rating (LER): 105.32 Central Intensity: 1127.58 cd
Max. Intensity: 1127.94 cd Pos of Max. Intensity: H180 V1
S/MH(C0/C180): 1.24 S/MH(C90/C270): 1.24

Picture Of Luminaire



Luminous Intensity Distribution Curve



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

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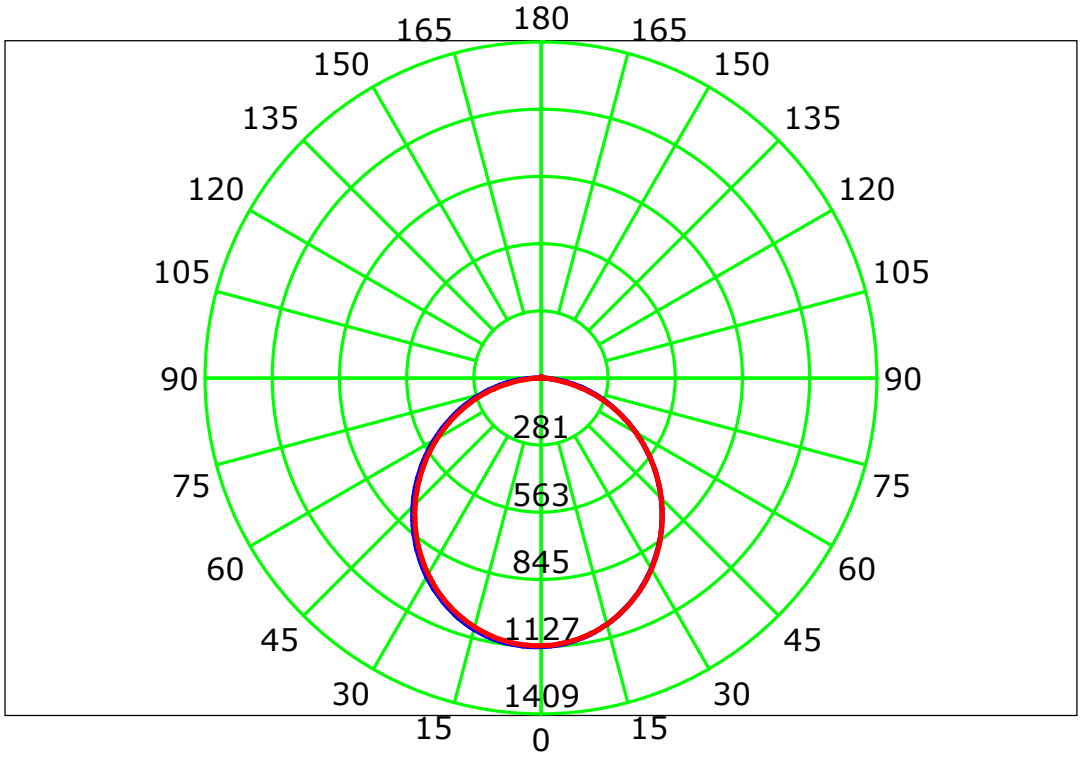
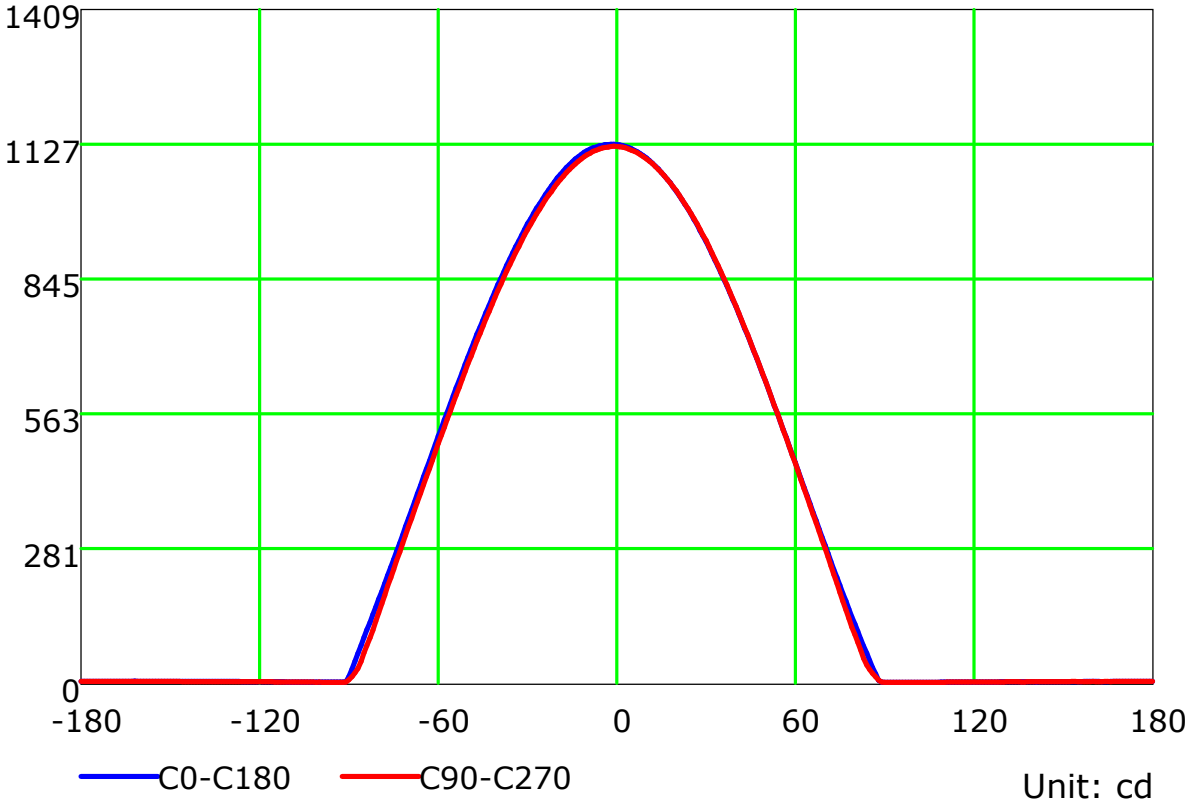
Luminous Intensity Distribution Curve

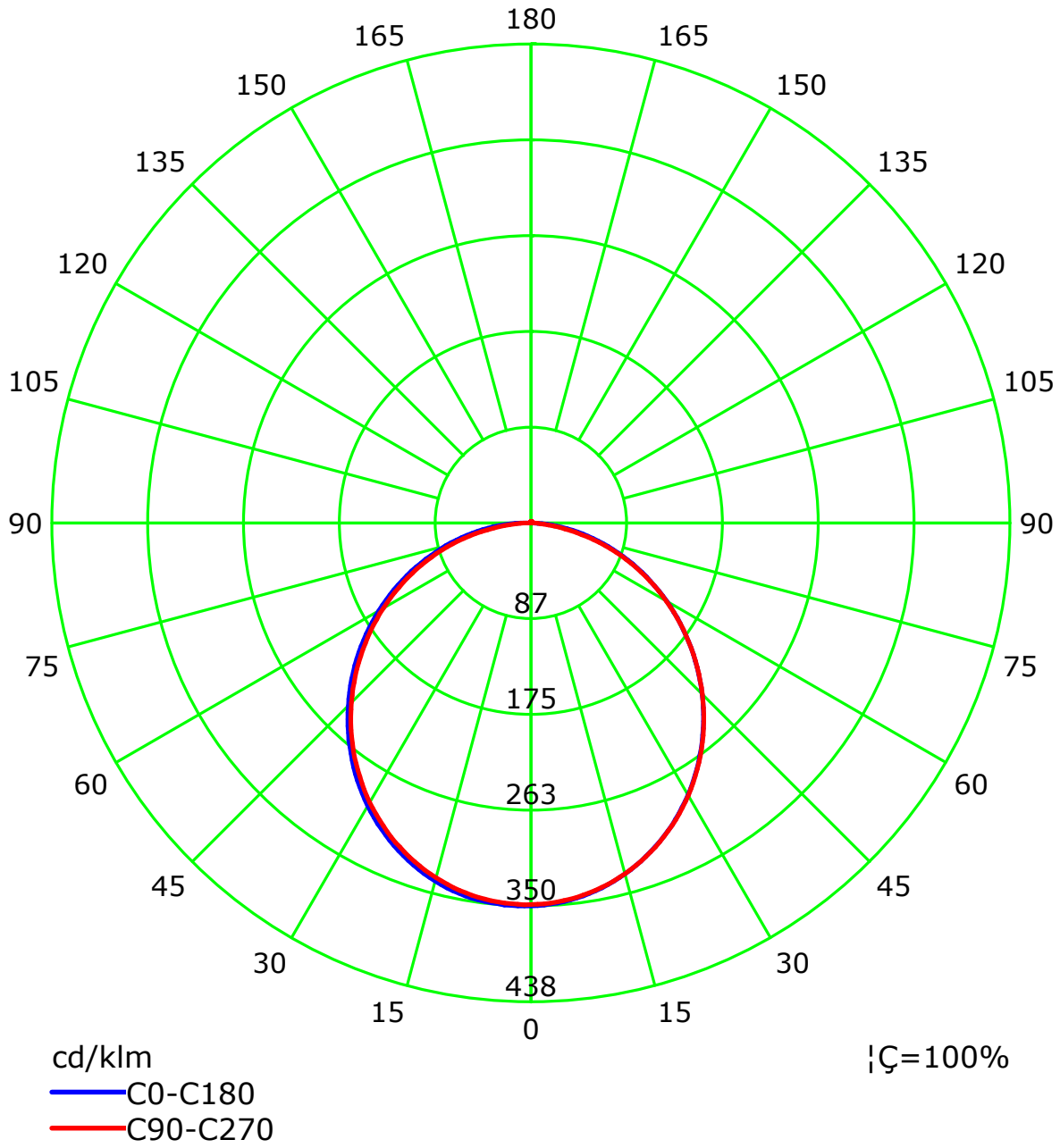




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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

Luminous Intensity Distribution Curve(cd/klm)



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
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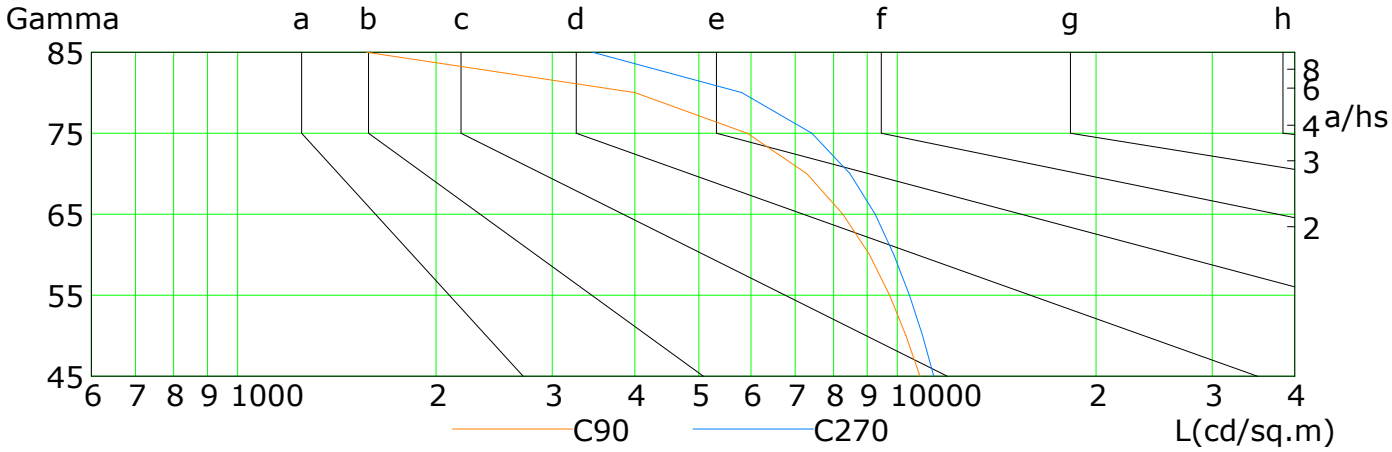
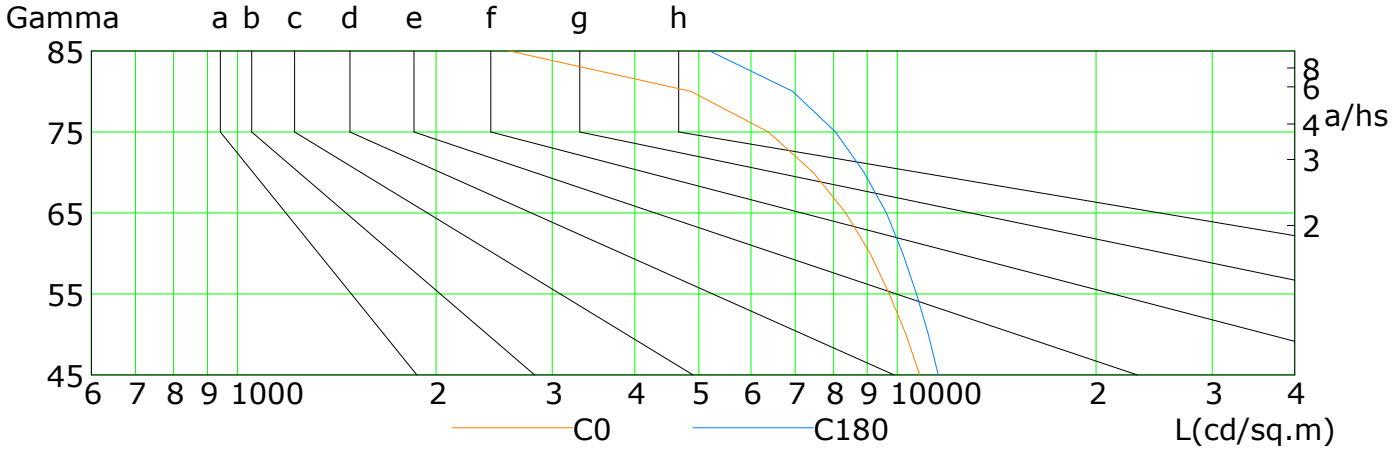
Lum Limit Curve

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	10811	10297	9726	9087	8354	7456	6373	4866	2583
C90	10821	10306	9734	9066	8270	7290	5921	4001	1569
C180	11537	11136	10690	10185	9625	8904	8061	6938	5196
C270	11347	10913	10432	9875	9250	8472	7419	5809	3450

C Plane (°):0.0-360.0: 22.5
Test Lab:
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Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
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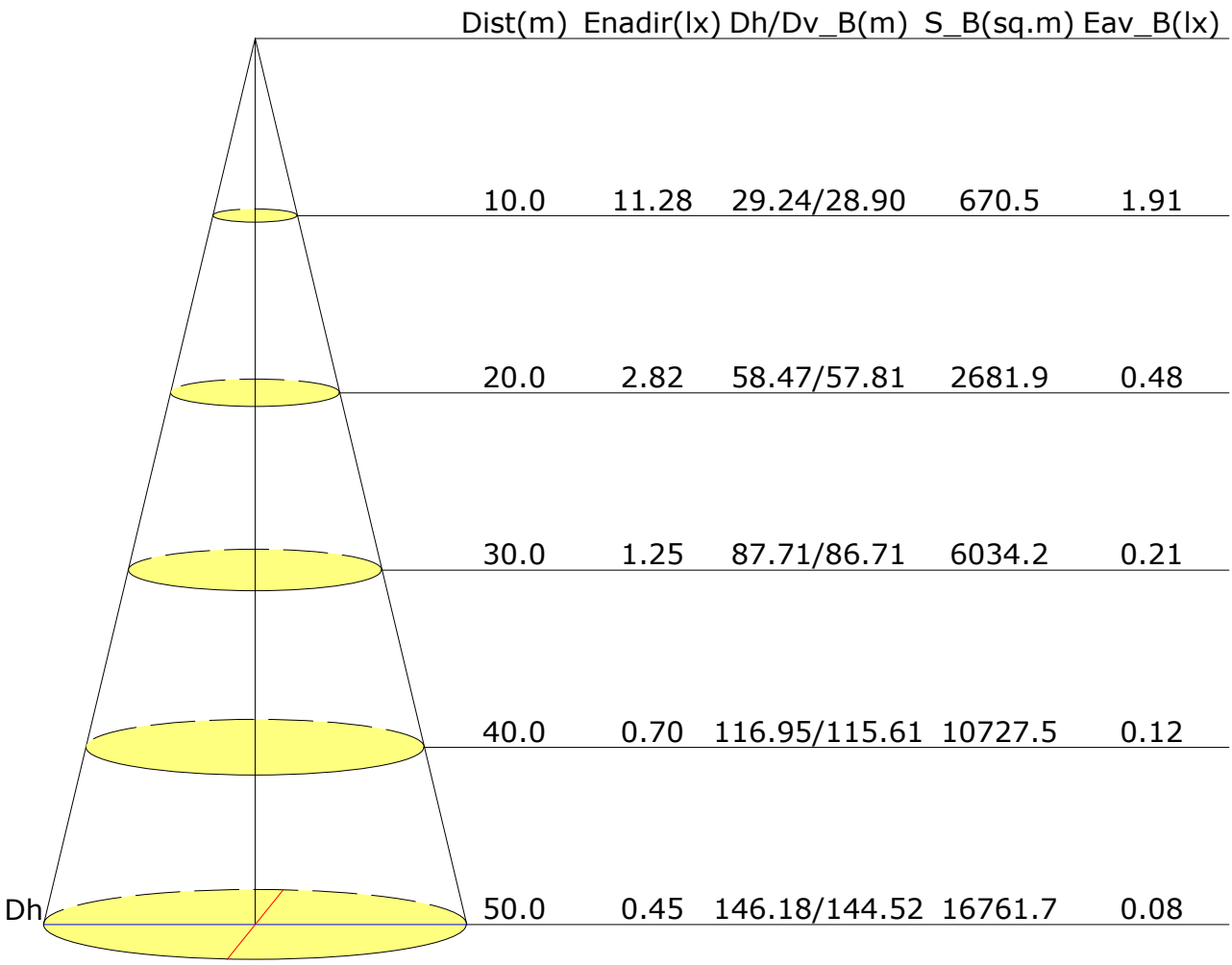
Illuminance at a Distance



Beam Angle(B): H111.2 V110.6 Field Angle(F): H164.7 V161.3

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:

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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	20.2	21.6	20.5	21.8	22.1	20.3	21.7	20.6	22.0	22.2
3H	21.6	22.8	21.9	23.1	23.4	21.8	23.0	22.1	23.3	23.6
4H	22.1	23.3	22.4	23.6	23.9	22.3	23.5	22.7	23.8	24.1
6H	22.4	23.5	22.8	23.9	24.2	22.6	23.8	23.0	24.1	24.4
8H	22.5	23.6	22.9	23.9	24.3	22.7	23.8	23.1	24.1	24.5
12H	22.6	23.6	22.9	23.9	24.3	22.8	23.8	23.1	24.1	24.5
X=4H Y=2H	20.8	22.0	21.1	22.3	22.6	20.9	22.1	21.2	22.4	22.7
3H	22.3	23.4	22.7	23.7	24.1	22.5	23.5	22.9	23.9	24.2
4H	23.0	23.9	23.4	24.3	24.6	23.1	24.1	23.6	24.4	24.8
6H	23.4	24.2	23.8	24.6	25.0	23.6	24.4	24.0	24.8	25.2
8H	23.5	24.3	24.0	24.7	25.1	23.7	24.5	24.1	24.9	25.3
12H	23.6	24.3	24.1	24.7	25.2	23.8	24.4	24.2	24.9	25.3
X=8H Y=4H	23.2	23.9	23.6	24.4	24.8	23.4	24.1	23.8	24.5	25.0
6H	23.8	24.4	24.2	24.8	25.3	23.9	24.5	24.4	25.0	25.4
8H	23.9	24.5	24.4	24.9	25.4	24.1	24.6	24.6	25.1	25.6
12H	24.0	24.5	24.5	25.0	25.5	24.1	24.6	24.7	25.1	25.6
X=12H Y=4H	23.2	23.9	23.7	24.3	24.8	23.4	24.0	23.8	24.5	24.9
6H	23.8	24.3	24.3	24.8	25.3	23.9	24.5	24.4	24.9	25.4
8H	24.0	24.5	24.5	24.9	25.5	24.1	24.6	24.6	25.1	25.6
Variations with the observer position at spacings:										
S=1.0H	+0.2/-0.2					+0.1/-0.1				
S=1.5H	+0.3/-0.5					+0.3/-0.4				
S=2.0H	+0.6/-0.9					+0.6/-0.9				

Calculate in accordance with CIE Pub.117. The table is revised with 3216lm (8log(F/F0) = 4.1).

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:

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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	0.74	0.79	0.87	0.92	0.95	1.00	1.03
	0.30		0.48	0.59	0.66	0.72	0.80	0.86	0.90	0.96	0.99
	0.20		0.42	0.53	0.60	0.66	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.54	0.64	0.71	0.76	0.83	0.88	0.91	0.96	0.98
	0.30		0.47	0.57	0.65	0.70	0.78	0.83	0.87	0.92	0.95
	0.20		0.42	0.52	0.60	0.65	0.73	0.79	0.83	0.89	0.93
0.30	0.50	0.20	0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.94
	0.30		0.47	0.56	0.63	0.68	0.76	0.81	0.84	0.89	0.92
	0.20		0.42	0.52	0.59	0.64	0.72	0.77	0.81	0.86	0.90
0.00	0.00	0.00	0.39	0.49	0.56	0.61	0.68	0.73	0.77	0.82	0.85

Rating:31W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980

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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	1.00	0.83	0.71	0.62	0.50	0.41	0.35	0.27	0.22
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.30	0.23	0.20
0.30	0.50	0.20	0.94	0.77	0.65	0.57	0.45	0.38	0.32	0.25	0.20
	0.30		0.80	0.68	0.58	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.70	0.60	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	0.31	0.26	0.23	0.18	0.15

Rating:31W 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 (°):0.0-180.0:1.0
Test Device: LSG-1800B
Distance: 12.677 m
Humidity:
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	0.19	0.20	0.21	0.21	0.22	0.22	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	0.08	0.10	0.12	0.13	0.14	0.16	0.17
0.50	0.50	0.20	0.16	0.18	0.18	0.19	0.20	0.20	0.21	0.21	0.22
	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	0.09	0.11	0.13	0.14	0.16	0.17
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.18
	0.20		0.05	0.07	0.08	0.09	0.11	0.13	0.14	0.15	0.16
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:31W Photometrically tested without ceiling board.

Multiply UF values by service correction factors

Calculate in accordance with CIBSE Technical Memorandum NO.5 1980