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Report No.: 1 Test Time: 17.01.2020 15:22

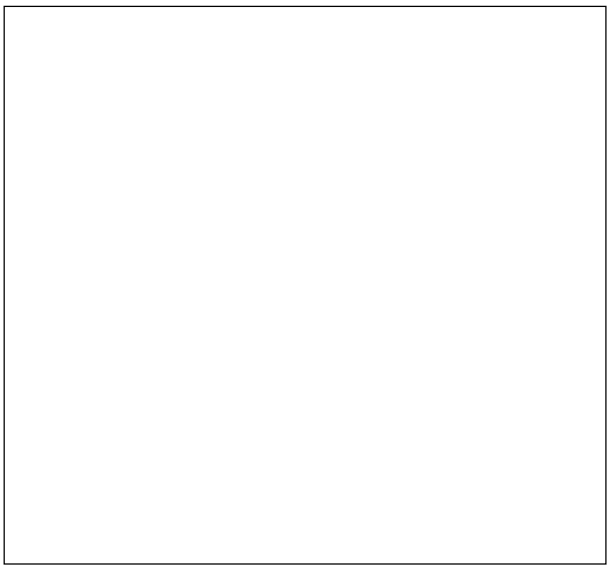
Luminaire Property

Luminaire Manufacturer:
Luminaire Description: FG 100 DALI 44LED 400W 5000K 60x150gr.
Luminous Length (mm): 440 mm Luminous Width (mm): 205 mm
Luminous Height (mm): 338 mm Voltage: 221.1 V
Current: 1.740 A Power: 398.53 W
Power Factor: 0.982

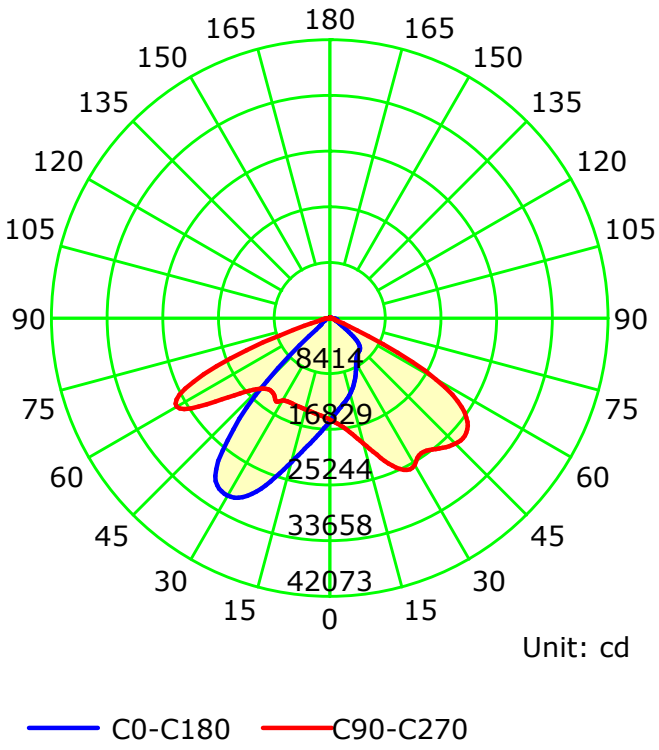
Photometric Results

CIE Class: Direct Total Rated Lamp Lumens: 58278.3 lm
Measurement Flux: 58278.3 lm Efficiency: 100%
Downward Ratio: 99% Upward Ratio: 1%
Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 104.9, 141.7, 126.7, 125.4
Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 44.3, 131.2, 82.4, 58.1
Luminaire Efficacy Rating (LER): 146.28 Central Intensity: 15562.03 cd
Max. Intensity: 33658.99 cd Pos of Max. Intensity: H135 V35
S/MH(C0/C180): 1.61 S/MH(C90/C270): 1.94

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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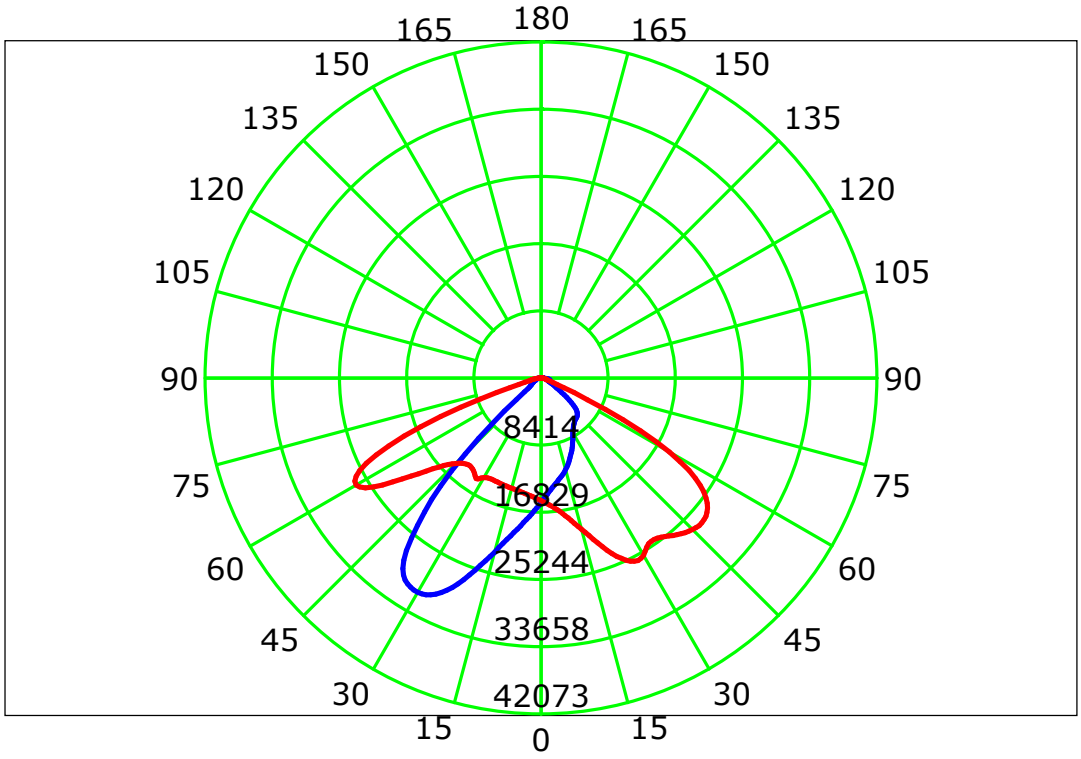
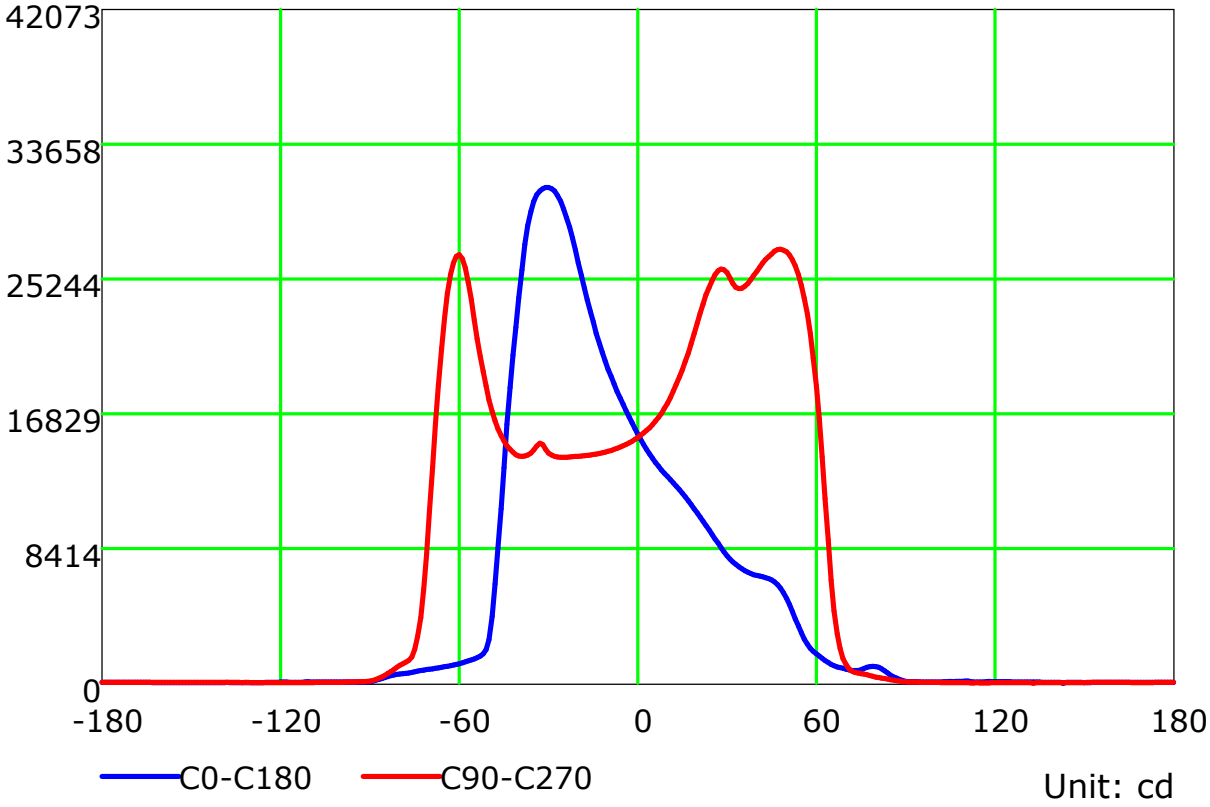
Luminous Intensity Distribution Curve

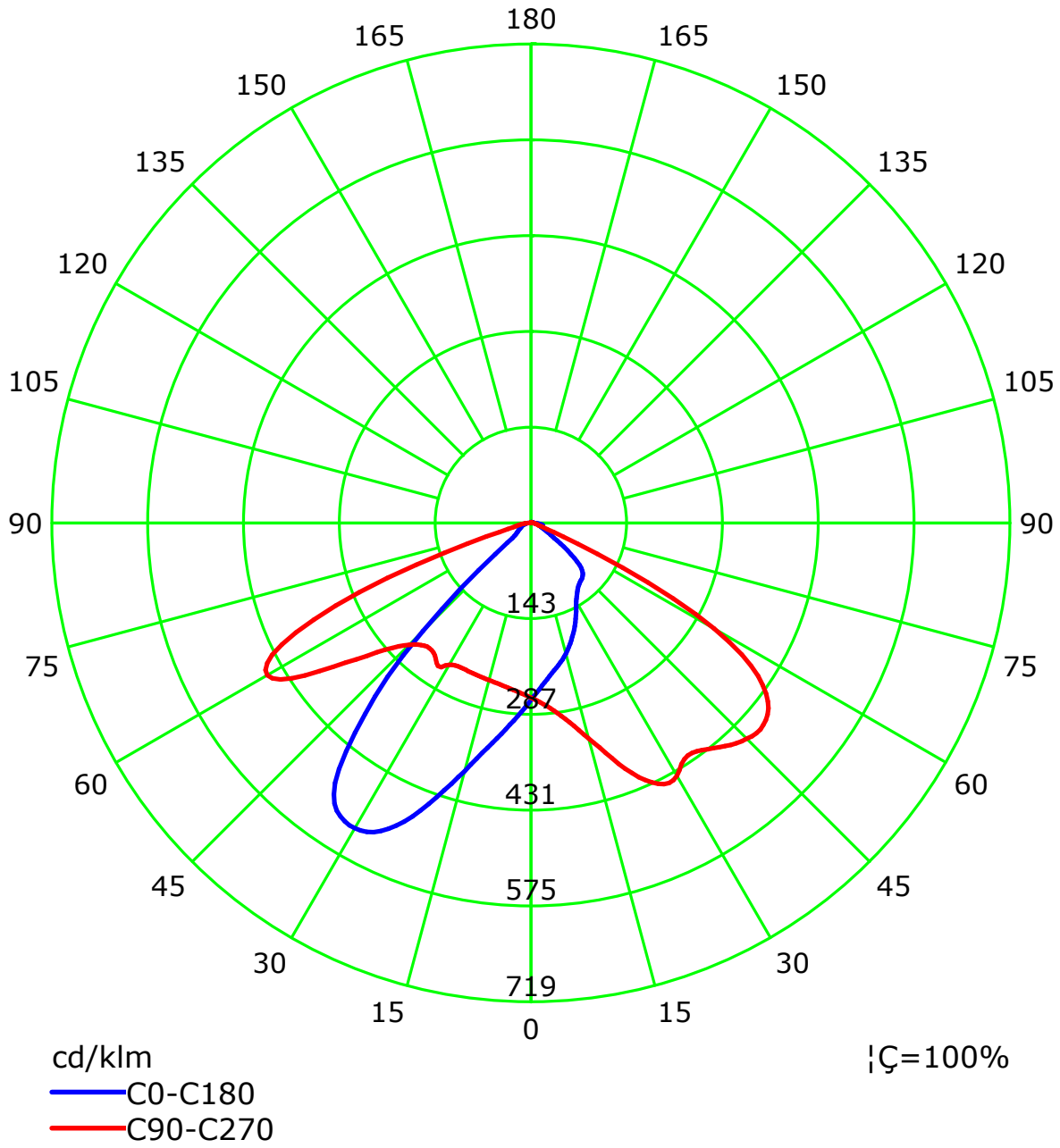




C Plane (°):0.0-360.0: 22.5
Test Lab:
Test Type: TYPE C
Temperature:
Operator:

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:
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Gamma Plane (°):0.0-180.0:1.0
Test Device: LSG-1800B
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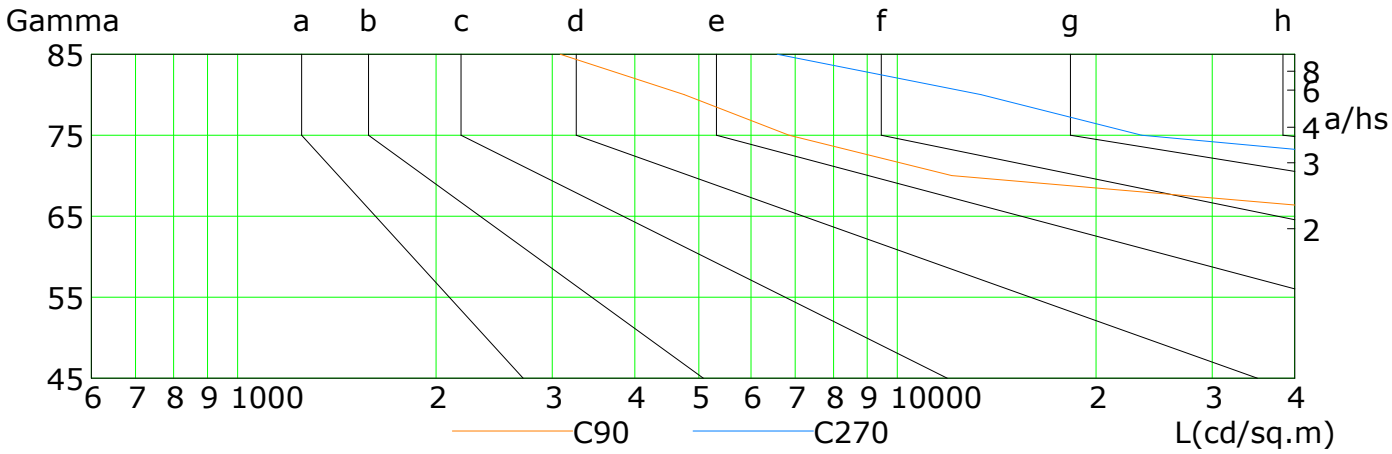
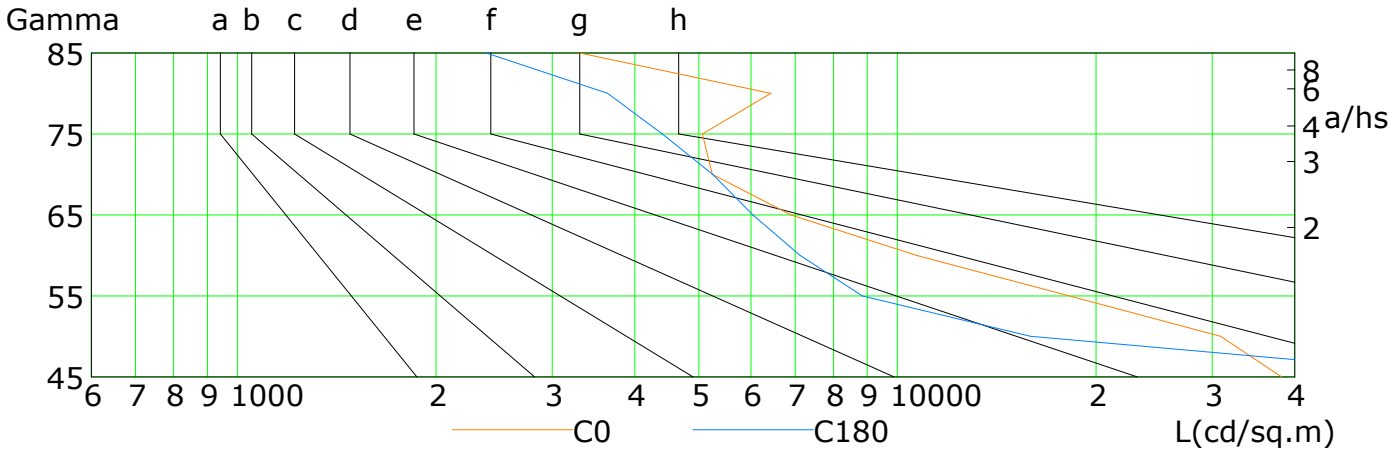
Lum Limit Curve

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	38235	30881	18223	10678	6895	5239	5061	6431	3301
C90	237772	242625	229174	176811	63959	12084	6850	4753	3085
C180	79645	15903	8846	7117	6039	5248	4404	3638	2382
C270	134200	159287	209184	254668	225766	111851	23478	13375	6573

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

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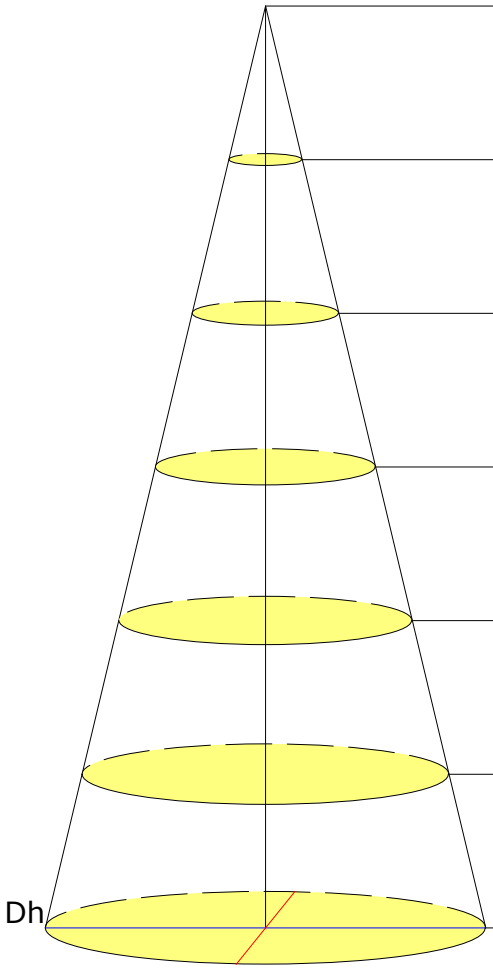
Illuminance at a Distance



Dist(m)	Enadir(lx)	Dh/Dv_B(m)	S_B(sq.m)	Eav_B(lx)
5.0	622.48	4.07/22.05	183.2	132.16
10.0	155.62	8.13/44.10	733.0	33.04
15.0	69.16	12.20/66.15	1649.2	14.68
20.0	38.91	16.26/88.20	2932.0	8.26
25.0	24.90	20.33/110.26	4581.2	5.29
30.0	17.29	24.40/132.31	6596.9	3.67

Beam Angle(B): H44.3 V131.2 Field Angle(F): H104.9 V141.7

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	20.8	22.1	21.1	22.4	22.6	30.8	32.1	31.1	32.3	32.6
3H	20.9	22.0	21.2	22.3	22.6	31.8	32.9	32.1	33.2	33.5
4H	20.9	22.0	21.3	22.3	22.6	31.7	32.8	32.1	33.1	33.5
6H	21.1	22.1	21.4	22.4	22.7	31.7	32.7	32.0	33.0	33.4
8H	21.2	22.1	21.5	22.5	22.8	31.6	32.6	32.0	33.0	33.3
12H	21.2	22.1	21.6	22.5	22.8	31.6	32.5	32.0	32.9	33.2
X=4H Y=2H	22.2	23.3	22.6	23.6	23.9	30.6	31.7	30.9	32.0	32.3
3H	22.3	23.2	22.7	23.6	23.9	31.6	32.6	32.0	32.9	33.3
4H	22.3	23.2	22.7	23.5	23.9	31.6	32.5	32.0	32.8	33.2
6H	22.5	23.2	22.9	23.6	24.0	31.6	32.3	32.0	32.7	33.1
8H	22.6	23.3	23.0	23.7	24.1	31.5	32.2	32.0	32.6	33.1
12H	22.6	23.2	23.1	23.7	24.1	31.5	32.1	32.0	32.6	33.0
X=8H Y=4H	22.4	23.1	22.9	23.5	24.0	31.5	32.2	32.0	32.6	33.0
6H	22.6	23.2	23.1	23.6	24.1	31.5	32.0	32.0	32.5	32.9
8H	22.8	23.2	23.3	23.7	24.2	31.5	31.9	32.0	32.4	32.9
12H	22.8	23.3	23.4	23.7	24.3	31.4	31.8	31.9	32.3	32.8
X=12H Y=4H	22.4	23.0	22.9	23.4	23.9	31.5	32.1	32.0	32.5	33.0
6H	22.6	23.1	23.1	23.6	24.1	31.5	31.9	31.9	32.4	32.9
8H	22.8	23.2	23.3	23.6	24.2	31.4	31.8	31.9	32.3	32.8
Variations with the observer position at spacings:										
S=1.0H	+0.6/-1.3					+0.7/-0.8				
S=1.5H	+1.6/-3.9					+2.5/-2.7				
S=2.0H	+2.4/-5.7					+4.3/-6.0				

Calculate in accordance with CIE Pub.117. The table is revised with 58278lm (8log(F/F0) = 14.1).

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
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Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.75								
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	NA	0.75	0.82	0.87	0.94	0.98	1.01	1.04	1.06
	0.30		NA	0.69	0.76	0.81	0.89	0.93	0.97	1.01	1.04
	0.20		NA	0.64	0.71	0.77	0.85	0.90	0.93	0.98	1.01
0.50	0.50	0.20	NA	0.73	0.80	0.85	0.91	0.94	0.97	1.00	1.02
	0.30		NA	0.68	0.75	0.80	0.87	0.91	0.94	0.97	1.00
	0.20		NA	0.63	0.70	0.76	0.83	0.88	0.91	0.95	0.98
0.30	0.50	0.20	NA	0.71	0.78	0.82	0.88	0.91	0.93	0.96	0.98
	0.30		NA	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.96
	0.20		NA	0.63	0.69	0.75	0.81	0.86	0.88	0.92	0.95
0.00	0.00	0.00	NA	0.60	0.67	0.72	0.78	0.82	0.84	0.88	0.90

Rating:399W 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:

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Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.75								
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	NA	0.69	0.58	0.50	0.38	0.32	0.27	0.21	0.17
	0.30		NA	0.59	0.51	0.44	0.35	0.29	0.25	0.20	0.16
	0.20		NA	0.52	0.45	0.39	0.32	0.27	0.23	0.18	0.15
0.50	0.50	0.20	NA	0.66	0.55	0.47	0.36	0.34	0.25	0.19	0.16
	0.30		NA	0.58	0.49	0.42	0.33	0.28	0.24	0.18	0.15
	0.20		NA	0.51	0.44	0.38	0.31	0.26	0.22	0.18	0.15
0.30	0.50	0.20	NA	0.63	0.53	0.45	0.34	0.28	0.24	0.18	0.15
	0.30		NA	0.56	0.47	0.41	0.32	0.26	0.23	0.17	0.14
	0.20		NA	0.50	0.43	0.37	0.30	0.25	0.21	0.17	0.14
0.00	0.00	0.00	0.99	0.39	0.33	0.28	0.21	0.18	0.15	0.12	0.09

Rating:399W 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:
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Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.75								
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	NA	0.17	0.18	0.19	0.20	0.20	0.21	0.22	0.22
	0.30		NA	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20
	0.20		NA	0.08	0.09	0.11	0.13	0.14	0.15	0.17	0.18
0.50	0.50	0.20	NA	0.17	0.17	0.18	0.19	0.20	0.20	0.21	0.21
	0.30		NA	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18
0.30	0.50	0.20	NA	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		NA	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		NA	0.07	0.09	0.10	0.12	0.14	0.15	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:399W 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: