

Report No.:

Test Time: 25.03.2020 22:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FL 58 L 105LED 46W 5000K 20-90 gr

Number of Lamps: 1

Luminous Width (mm): 75

Voltage: 229.2 V

Power: 45.30 W

Luminous Length (mm): 1500

Luminous Height (mm): 60

Current: 0.202 A

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Measurement Flux: 6236.4 lm

Downward Ratio: 99%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 152.3, 141.6, 137.2, 138.5

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 79.7, 46.0, 59.1, 60.4

Luminaire Efficacy Rating (LER): 137.72

Max. Intensity: 4013.56 cd

S/MH(C0/C180): 1.07

Total Rated Lamp Lumens: 6236.4 lm

Efficiency: 100%

Upward Ratio: 1%

Central Intensity: 2231.82 cd

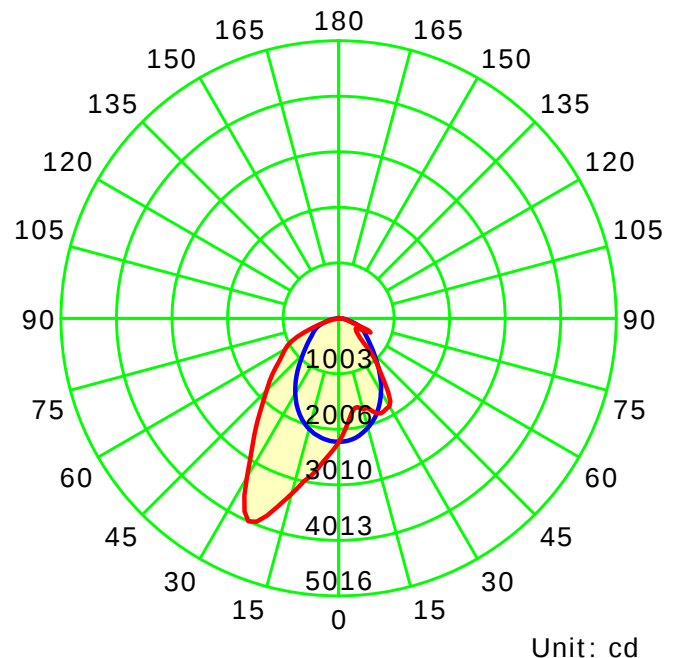
Pos of Max. Intensity: H270 V24

S/MH(C90/C270): 1.42

Picture Of Luminaire



Luminous Intensity Distribution Curve



— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

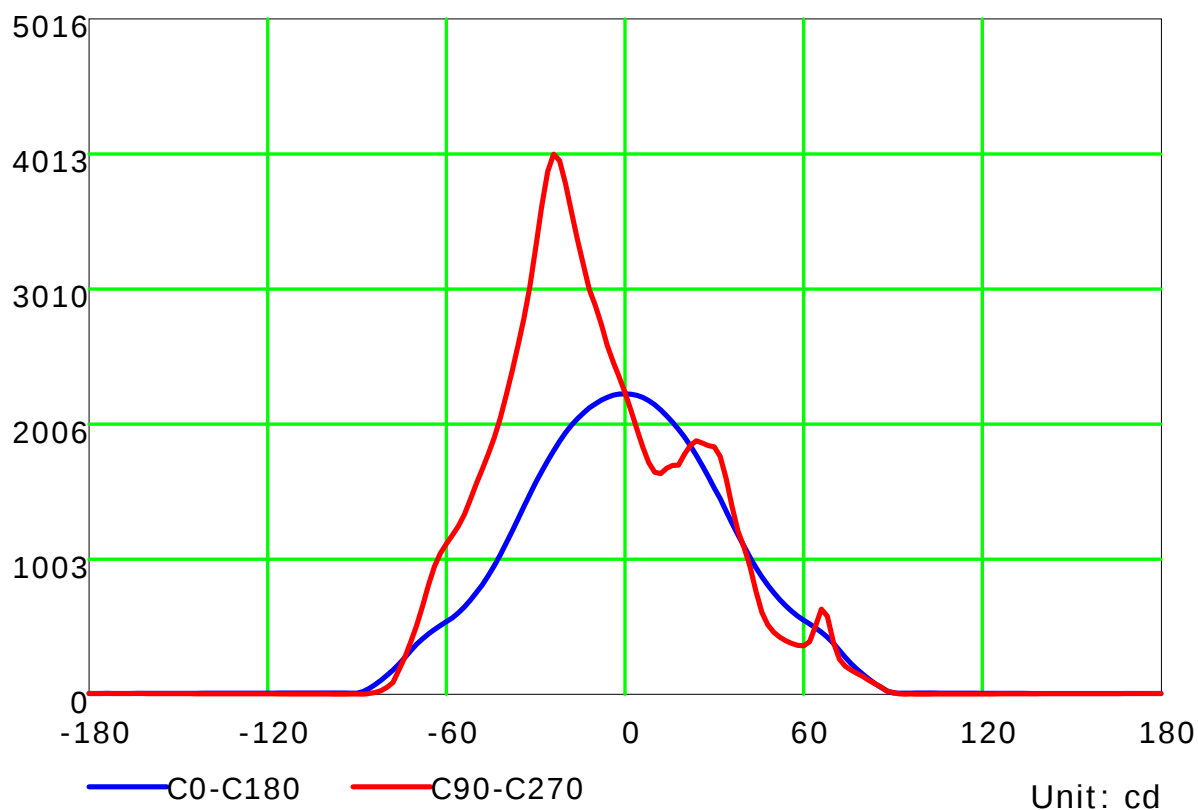
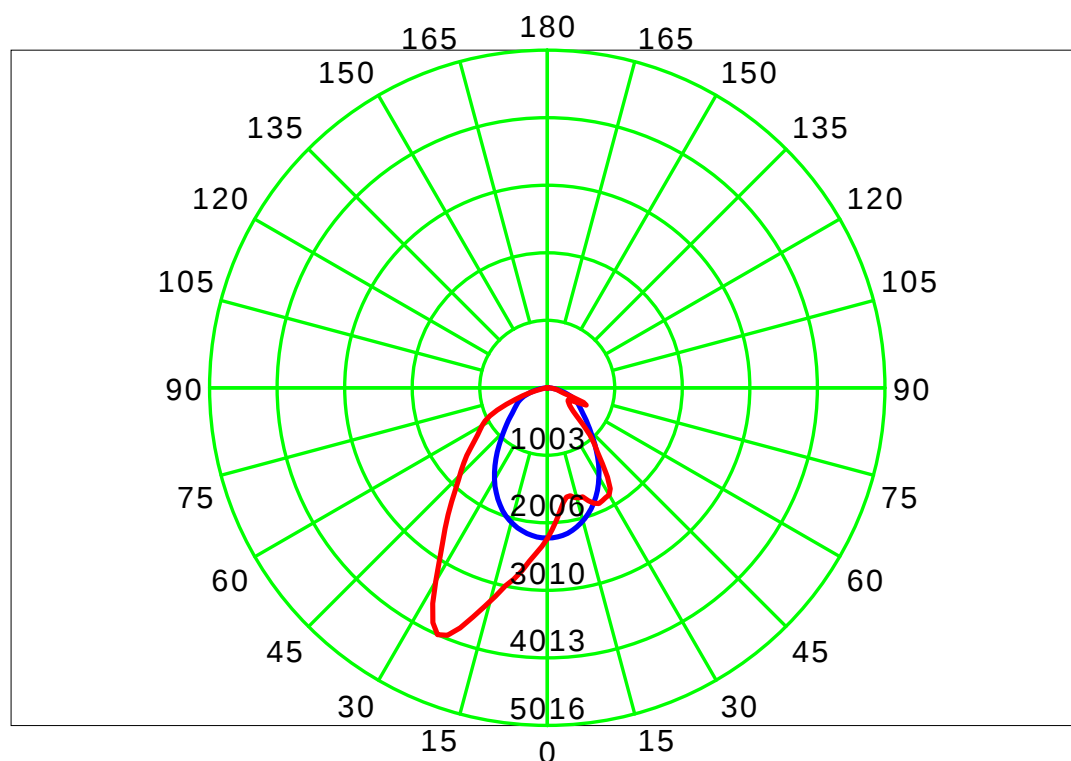
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve



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Test Lab:

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Temperature:

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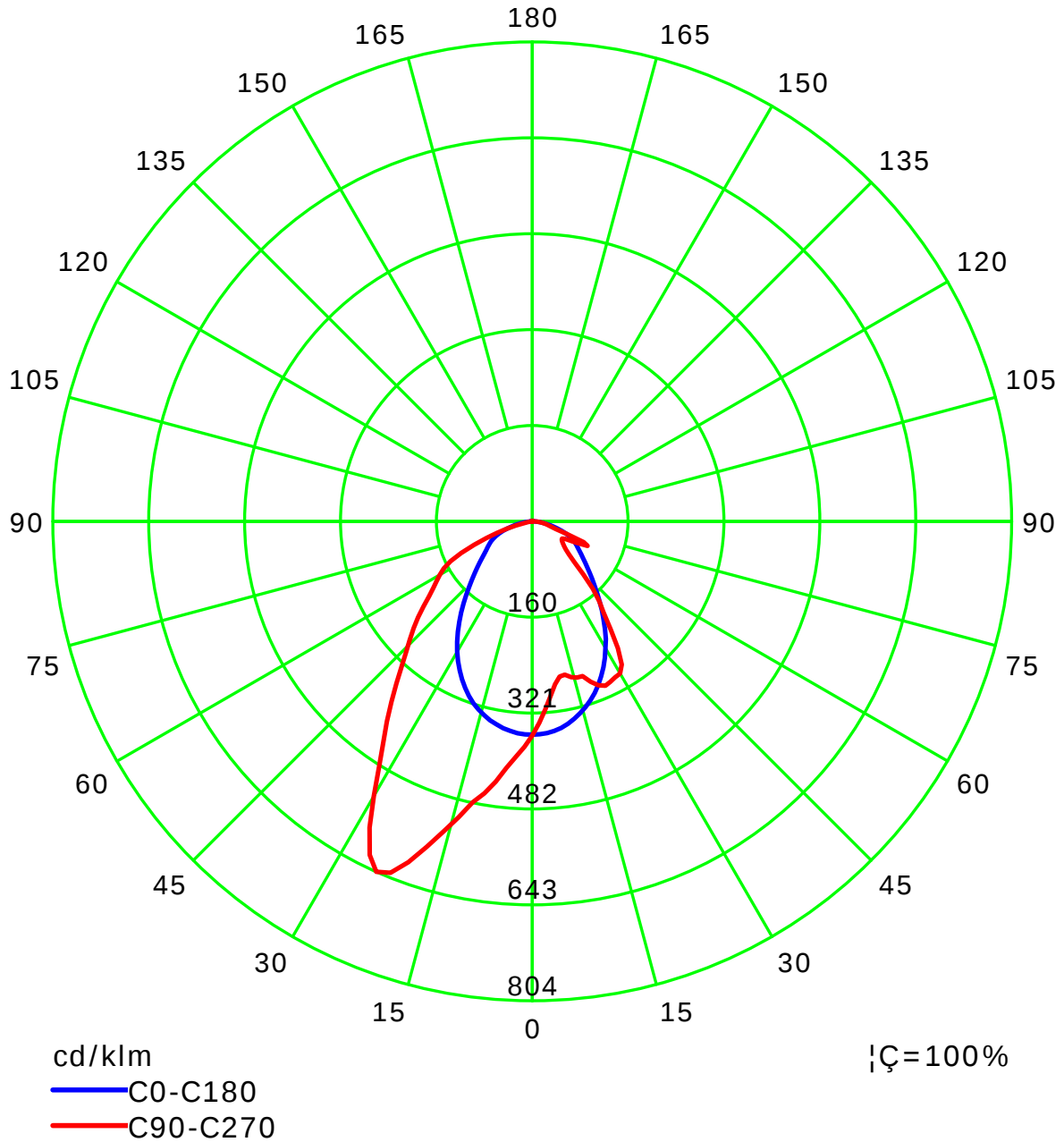
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Luminous Intensity Distribution Curve(cd / klm)



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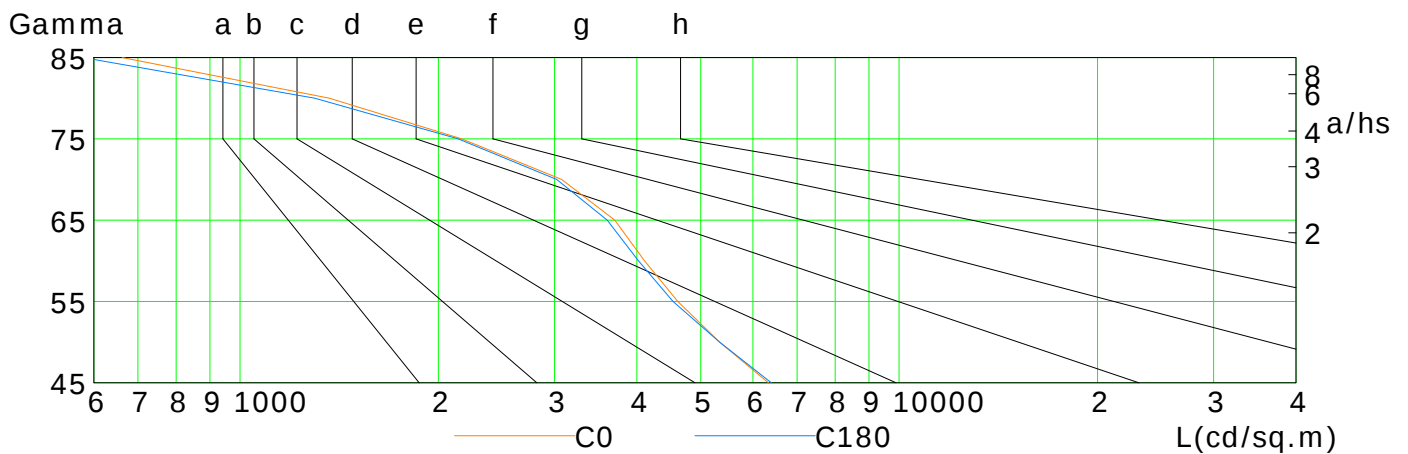
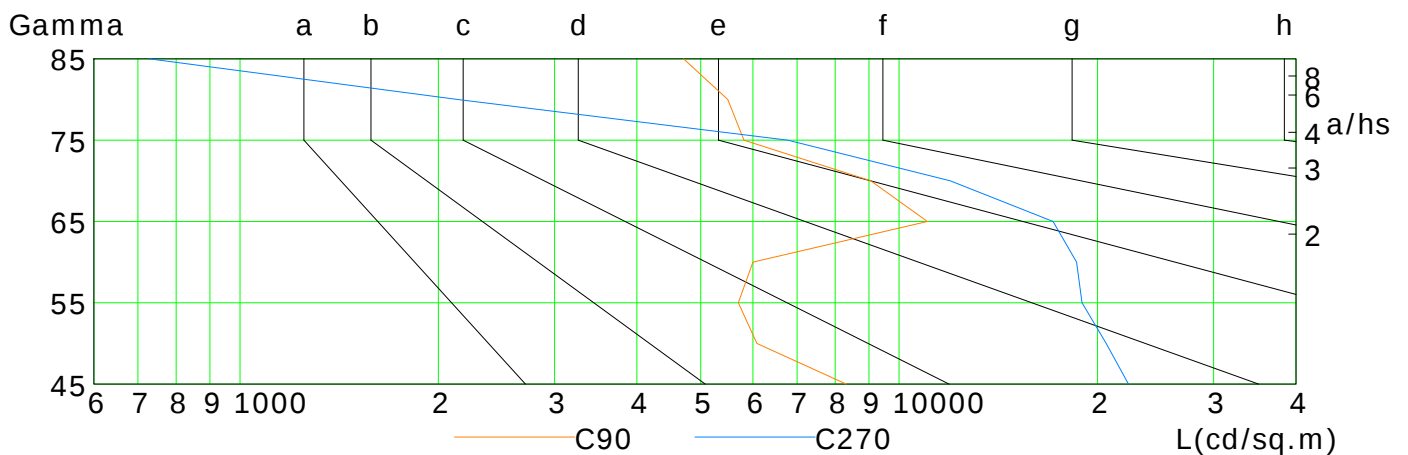
Humidity:

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	6335	5342	4615	4109	3703	3078	2169	1366	663
C90	8313	6085	5701	6000	11038	9053	5815	5496	4711
C180	6400	5340	4538	4023	3607	3025	2143	1299	579
C270	22278	20615	18947	18588	17121	11955	6779	2140	729

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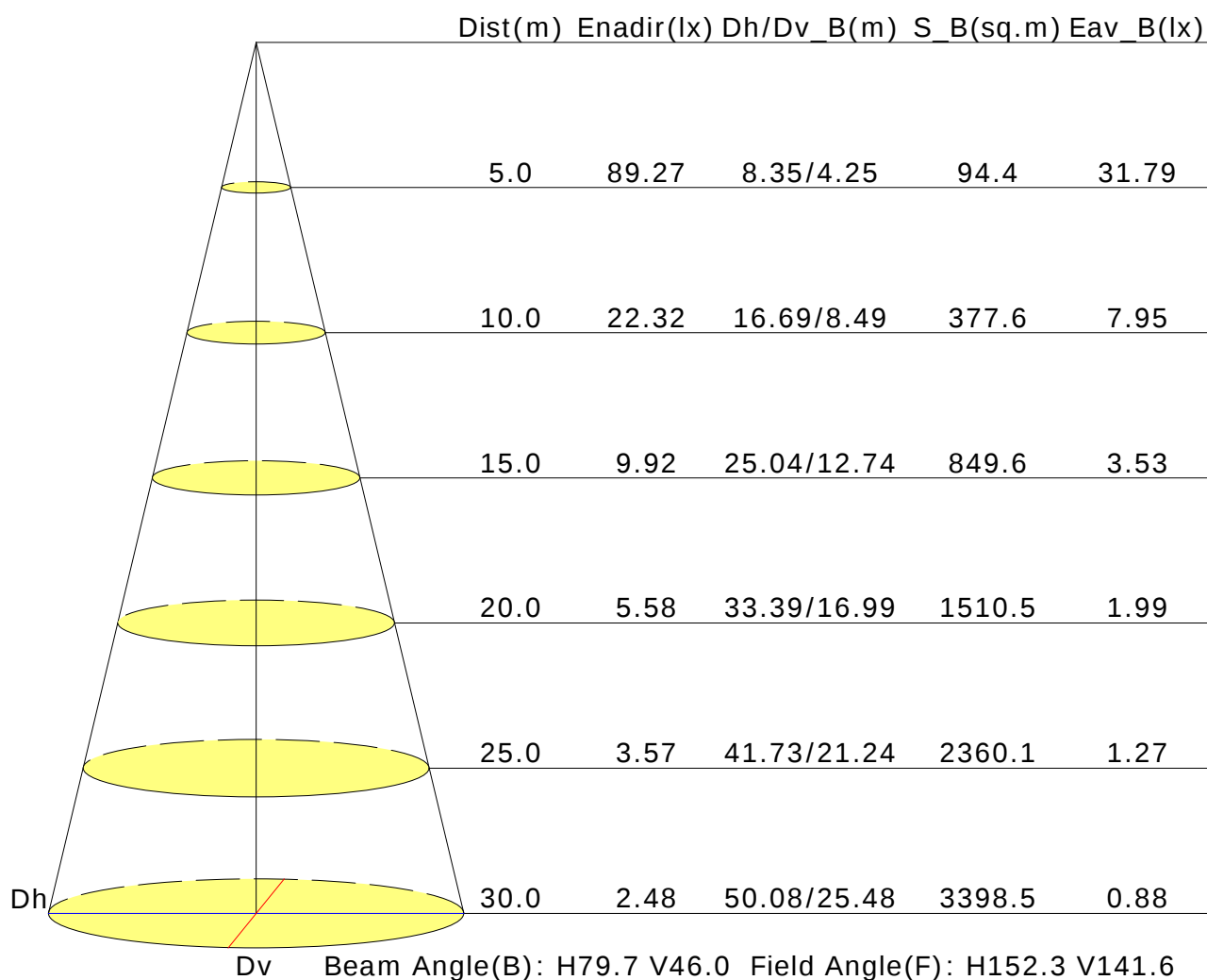
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

Illuminance at a Distance



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	19.5	20.8	19.8	21.0	21.3	21.0	22.3	21.3	22.5	22.8
3H	20.1	21.3	20.5	21.6	21.9	22.3	23.5	22.7	23.8	24.1
4H	20.3	21.4	20.7	21.7	22.0	22.5	23.6	22.9	23.9	24.2
6H	20.4	21.4	20.8	21.7	22.1	22.6	23.6	23.0	23.9	24.3
8H	20.4	21.4	20.8	21.7	22.1	22.6	23.6	23.0	23.9	24.2
12H	20.4	21.3	20.8	21.7	22.0	22.6	23.5	23.0	23.9	24.2
X=4H Y=2H	20.0	21.1	20.4	21.4	21.7	21.2	22.4	21.6	22.7	23.0
3H	20.8	21.8	21.2	22.1	22.5	22.7	23.7	23.1	24.0	24.4
4H	21.1	22.0	21.5	22.3	22.7	23.0	23.9	23.4	24.2	24.6
6H	21.3	22.0	21.7	22.4	22.8	23.1	23.9	23.5	24.2	24.7
8H	21.3	22.0	21.8	22.4	22.9	23.1	23.8	23.6	24.2	24.7
12H	21.3	21.9	21.8	22.4	22.8	23.1	23.7	23.6	24.2	24.6
X=8H Y=4H	21.3	22.0	21.8	22.4	22.9	23.1	23.8	23.5	24.2	24.6
6H	21.6	22.1	22.1	22.6	23.1	23.2	23.8	23.7	24.2	24.7
8H	21.7	22.1	22.1	22.6	23.1	23.2	23.7	23.7	24.2	24.7
12H	21.7	22.1	22.2	22.6	23.1	23.3	23.7	23.8	24.2	24.7
X=12H Y=4H	21.3	21.9	21.8	22.4	22.8	23.1	23.7	23.5	24.1	24.6
6H	21.6	22.1	22.1	22.5	23.0	23.2	23.7	23.7	24.1	24.6
8H	21.7	22.1	22.2	22.6	23.1	23.2	23.7	23.7	24.1	24.7
Variations with the observer position at spacings:										
S=1.0H	+0.6/-0.7					+0.4/-0.5				
S=1.5H	+1.0/-1.4					+1.0/-1.3				
S=2.0H	+1.3/-1.7					+1.3/-1.8				

Calculate in accordance with CIE Pub.117. The table is revised with 6236lm ($8\log(F/F_0) = 6.4$).

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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	0.61	0.71	0.78	0.83	0.90	0.95	0.98	1.02	1.05	
	0.30		0.54	0.64	0.72	0.77	0.85	0.90	0.94	0.98	1.02	
	0.20		0.49	0.59	0.66	0.72	0.80	0.86	0.90	0.95	0.99	
0.50	0.50	0.20	0.60	0.69	0.76	0.81	0.87	0.91	0.94	0.98	1.01	
	0.30		0.53	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
	0.20		0.48	0.58	0.66	0.71	0.78	0.84	0.87	0.92	0.96	
0.30	0.50	0.20	0.58	0.68	0.74	0.78	0.84	0.88	0.91	0.94	0.97	
	0.30		0.53	0.62	0.69	0.74	0.80	0.85	0.88	0.92	0.95	
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93	
0.00	0.00	0.00	0.46	0.55	0.62	0.67	0.73	0.78	0.81	0.85	0.88	
Rating:45W 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	0.92	0.75	0.64	0.55	0.44	0.36	0.31	0.24	0.19	
	0.30		0.77	0.65	0.56	0.49	0.40	0.33	0.29	0.22	0.18	
	0.20		0.66	0.56	0.49	0.44	0.36	0.31	0.27	0.21	0.18	
0.50	0.50	0.20	0.89	0.72	0.61	0.53	0.42	0.38	0.29	0.22	0.18	
	0.30		0.75	0.63	0.54	0.47	0.38	0.32	0.27	0.21	0.18	
	0.20		0.65	0.55	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.30	0.50	0.20	0.86	0.69	0.58	0.50	0.40	0.33	0.28	0.21	0.17	
	0.30		0.74	0.61	0.52	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.64	0.54	0.47	0.42	0.34	0.29	0.25	0.19	0.16	
0.00	0.00	0.00	0.54	0.44	0.38	0.33	0.26	0.22	0.19	0.14	0.12	
Rating:45W 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	0.16	0.18	0.18	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	0.18	0.19	0.20	
	0.20		0.05	0.07	0.09	0.10	0.12	0.14	0.15	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.21	0.21	
	0.30		0.10	0.11	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.05	0.07	0.09	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	0.19	0.19	0.19	0.20	0.20	
	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	0.10	0.12	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:45W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												