

Report No.:

Test Time: 26.03.2020 23:21

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 50 (900) 3x39LED 42W 5000K прозрачный с линзой 90 гр. DALI

Luminous Length (mm): 945

Luminous Width (mm): 55

Luminous Height (mm): 80

Voltage: 229.7 V

Current: 0.184 A

Power: 41.33 W

Power Factor: 0.978

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 5585.0 lm

Measurement Flux: 5585 lm

Efficiency: 100%

Downward Ratio: 100%

Upward Ratio: 0%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 150.6, 124.0, 136.7, 136.9

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 106.1, 86.0, 97.1, 97.2

Luminaire Efficacy Rating (LER): 135.18

Central Intensity: 2377.92 cd

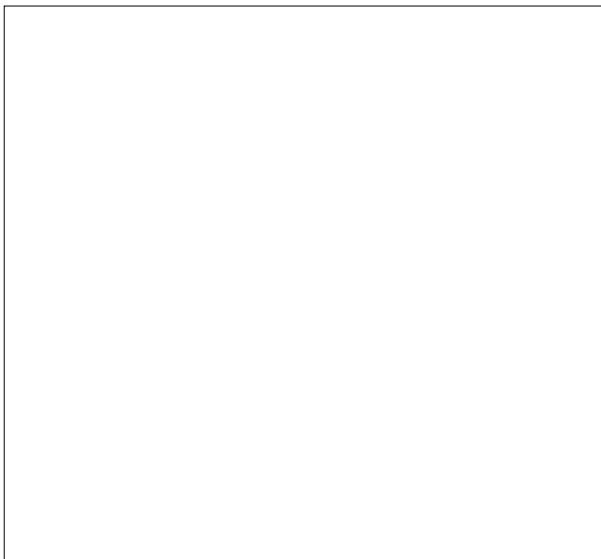
Max. Intensity: 2565.4 cd

Pos of Max. Intensity: H90 V18

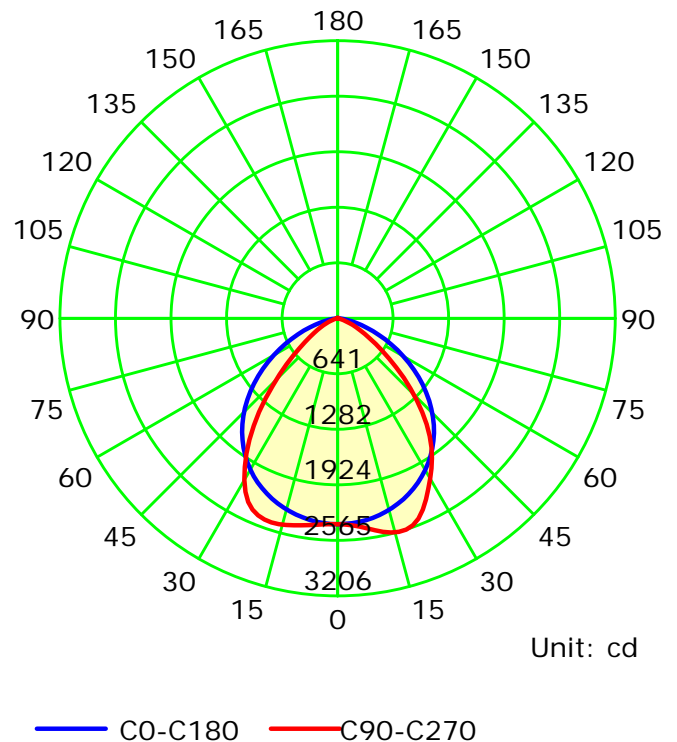
S/MH(C0/C180): 1.26

S/MH(C90/C270): 1.28

Picture Of Luminaire



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

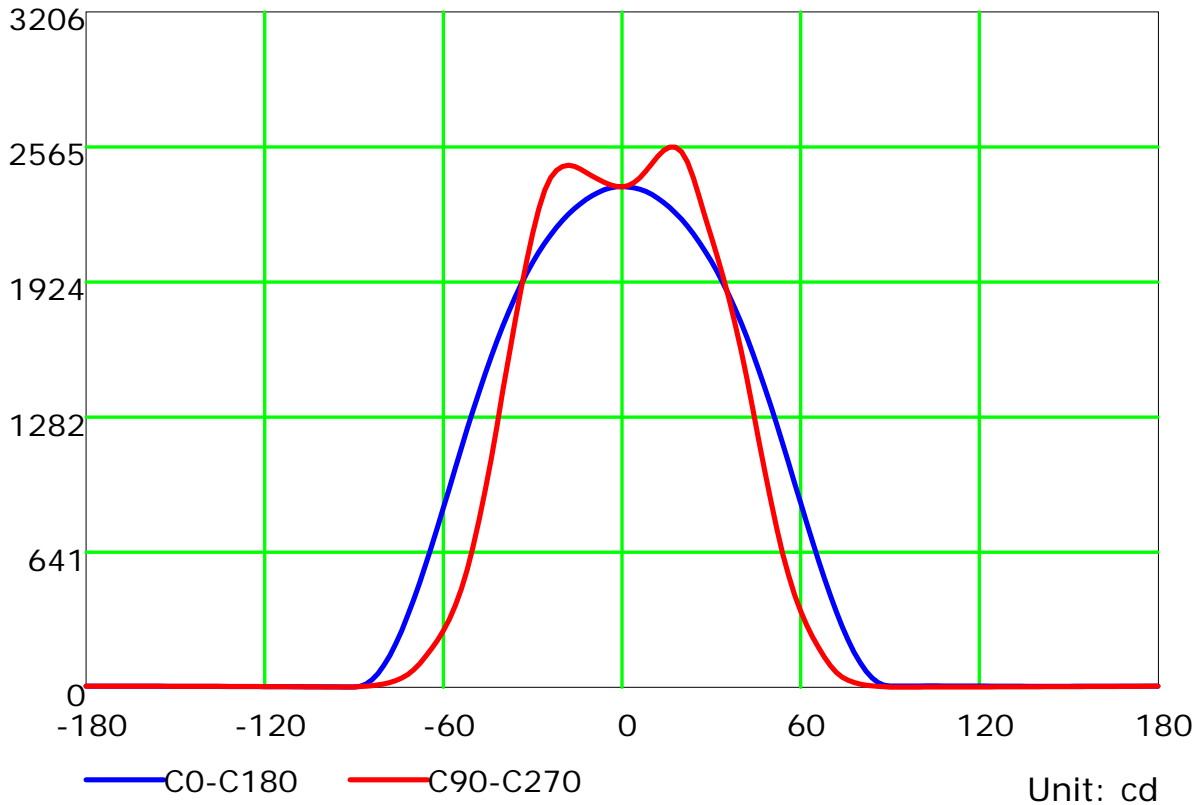
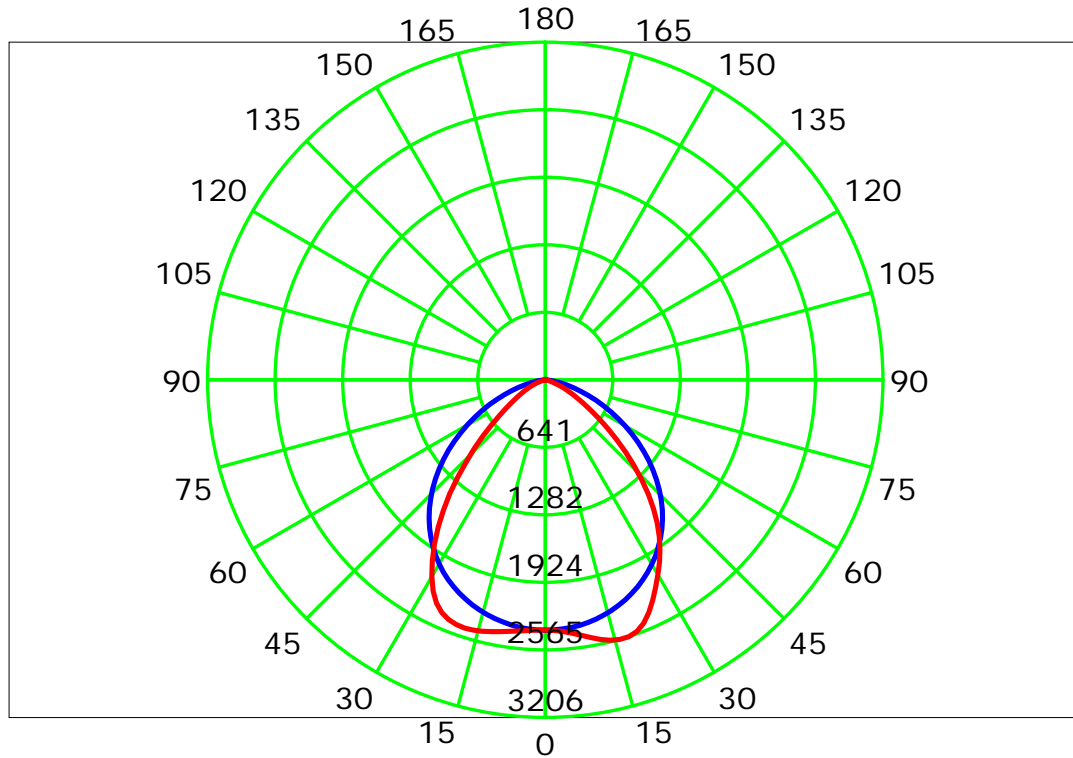
Temperature:

Humidity:

Operator:

Inspector:

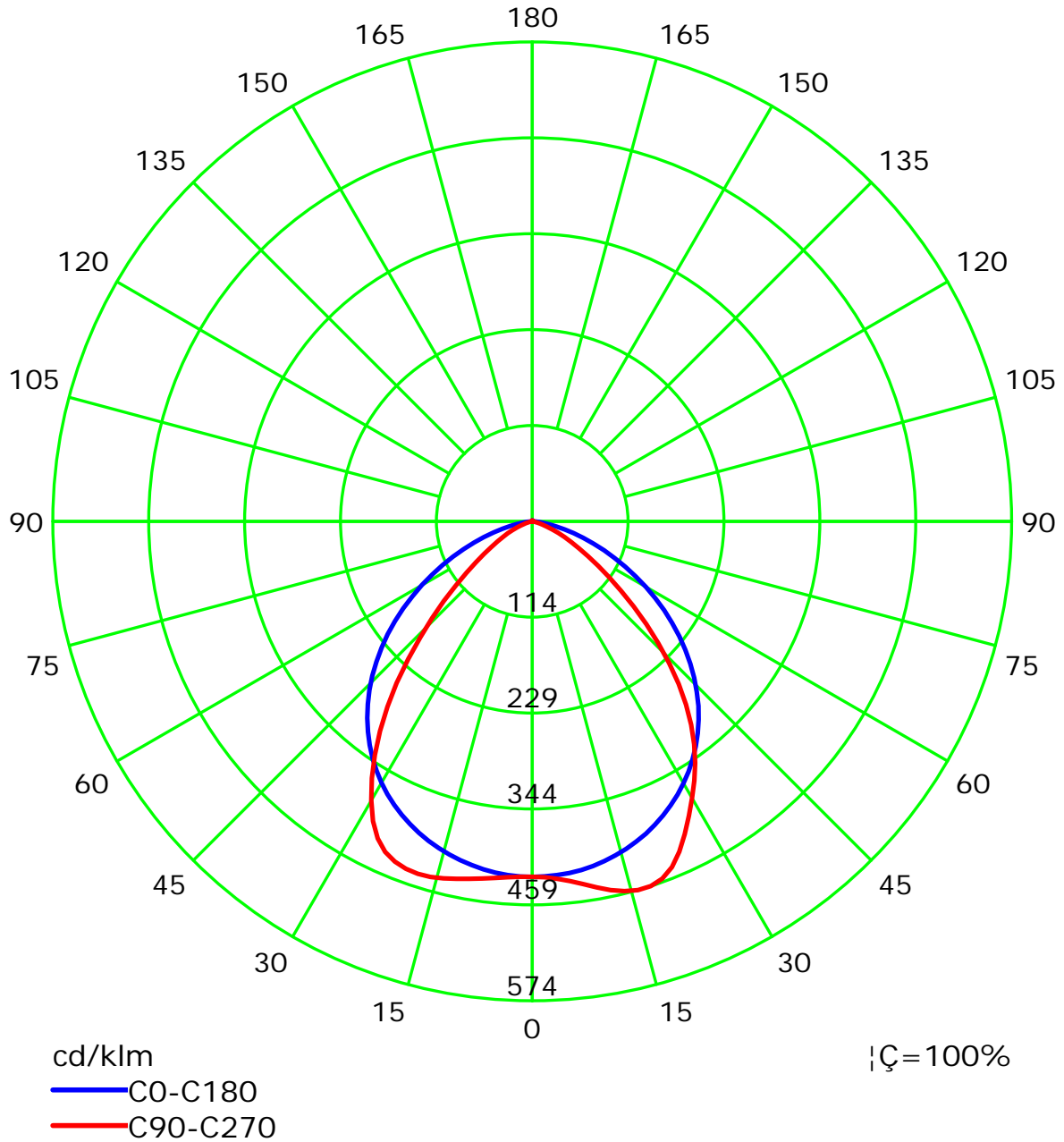
Luminous Intensity Distribution Curve



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

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

Luminous Intensity Distribution Curve(cd/klm)

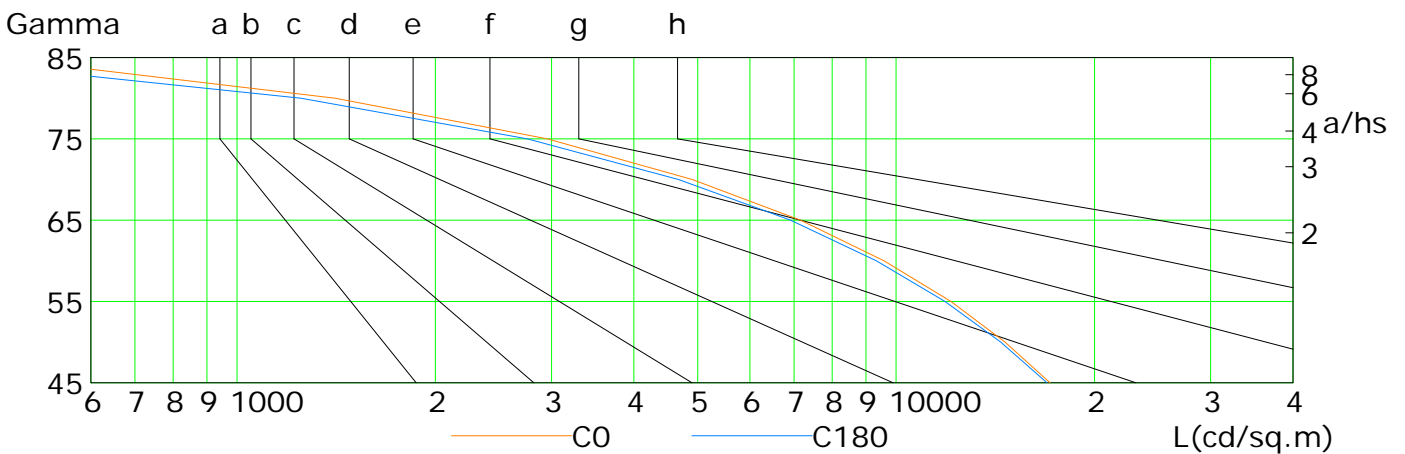
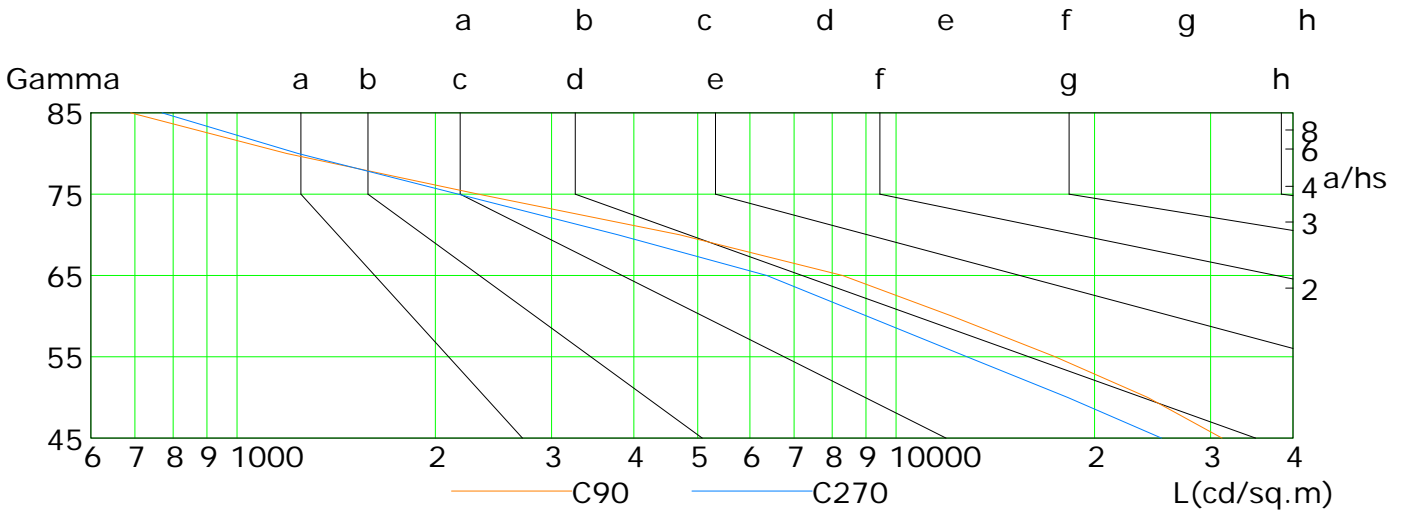


C Plane (°):0.0-360.0: 22.5
 Test Lab:
 Test Type: TYPE C
 Temperature:
 Operator:

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

Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
		a	b	c	d	e	f	g	h
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	17123	14630	12109	9584	7161	4906	2957	1409	426
C90	31212	24075	17428	12153	8288	4695	2324	1190	690
C180	16940	14415	11864	9330	6916	4675	2758	1250	321
C270	25261	18205	12805	9031	6363	3784	2166	1238	770

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

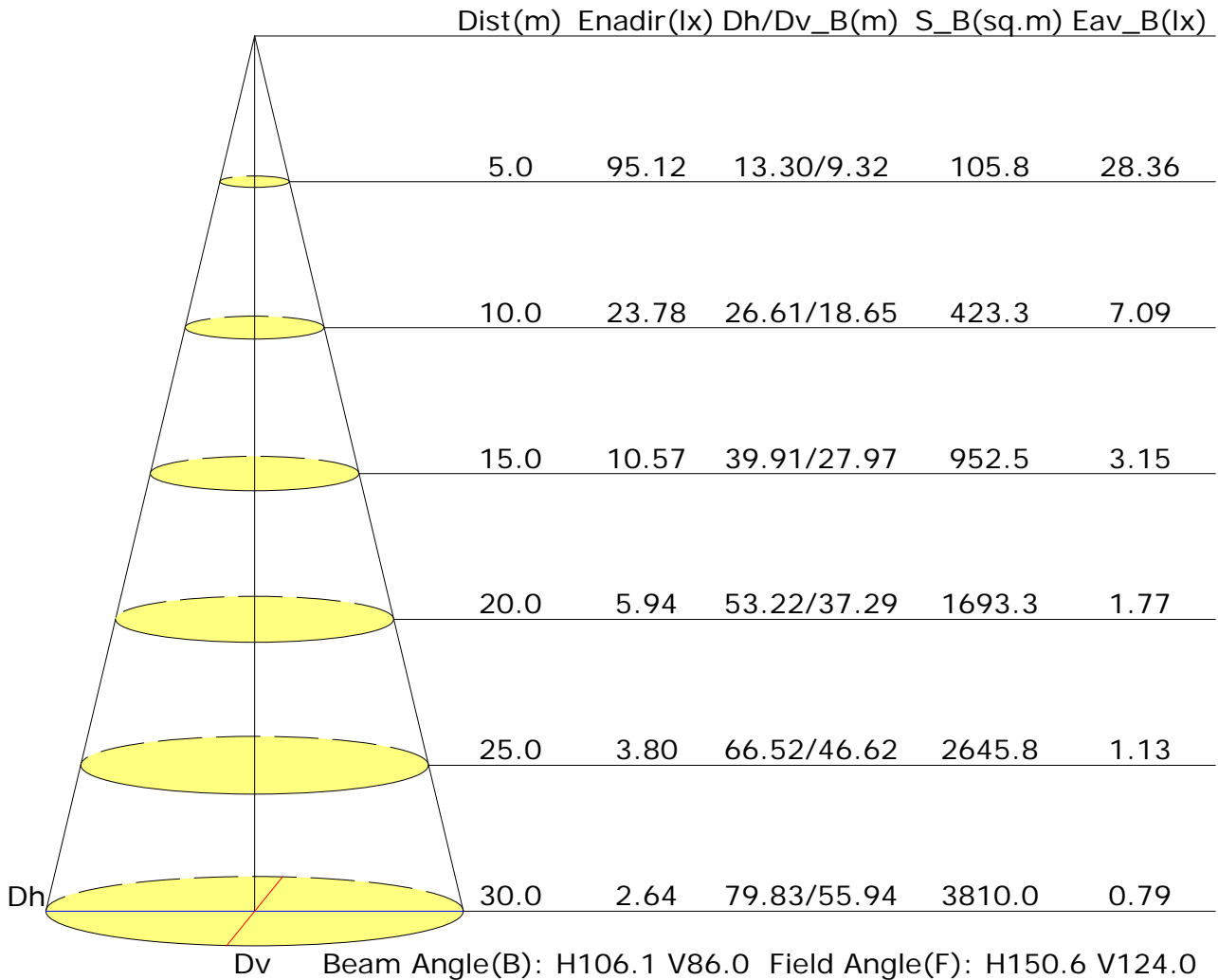
Test Device: LSG-1800B

Distance: 12.677 m

Humidity:

Inspector:

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	21.6	22.8	21.9	23.0	23.3	20.3	21.5	20.6	21.8	22.0
3H	22.2	23.3	22.5	23.5	23.8	20.4	21.5	20.7	21.8	22.1
4H	22.3	23.3	22.6	23.6	23.9	20.4	21.4	20.7	21.7	22.0
6H	22.3	23.2	22.6	23.5	23.9	20.3	21.3	20.7	21.6	21.9
8H	22.3	23.2	22.6	23.5	23.8	20.3	21.2	20.6	21.5	21.8
12H	22.2	23.1	22.6	23.4	23.8	20.2	21.1	20.6	21.4	21.8
X=4H Y=2H	21.6	22.7	22.0	23.0	23.3	20.5	21.6	20.9	21.8	22.1
3H	22.3	23.2	22.7	23.5	23.9	20.7	21.5	21.0	21.9	22.2
4H	22.5	23.3	22.9	23.6	24.0	20.6	21.4	21.0	21.8	22.2
6H	22.5	23.2	23.0	23.6	24.0	20.6	21.3	21.0	21.7	22.1
8H	22.5	23.2	23.0	23.6	24.0	20.6	21.2	21.0	21.6	22.0
12H	22.5	23.1	23.0	23.5	23.9	20.5	21.1	21.0	21.5	22.0
X=8H Y=4H	22.4	23.0	22.9	23.5	23.9	20.6	21.3	21.1	21.7	22.1
6H	22.5	23.0	23.0	23.4	23.9	20.6	21.1	21.0	21.5	22.0
8H	22.5	22.9	23.0	23.4	23.9	20.5	21.0	21.0	21.4	21.9
12H	22.5	22.8	23.0	23.3	23.8	20.5	20.9	21.0	21.4	21.9
X=12H Y=4H	22.4	22.9	22.8	23.4	23.8	20.6	21.2	21.0	21.6	22.0
6H	22.5	22.9	22.9	23.4	23.8	20.6	21.0	21.0	21.5	21.9
8H	22.5	22.8	23.0	23.3	23.8	20.5	20.9	21.0	21.4	21.9
Variations with the observer position at spacings:										
S=1.0H	+0.5/-0.6					+0.7/-1.7				
S=1.5H	+0.8/-1.5					+2.1/-3.5				
S=2.0H	+1.9/-2.8					+3.7/-5.5				

Calculate in accordance with CIE Pub.117. The table is revised with 5585lm ($8\log(F/F_0) = 6.0$).

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	0.65	0.75	0.82	0.87	0.93	0.98	1.00	1.04	1.06	
	0.30		0.58	0.69	0.76	0.81	0.88	0.93	0.96	1.01	1.04	
	0.20		0.53	0.64	0.71	0.77	0.84	0.89	0.93	0.98	1.01	
0.50	0.50	0.20	0.64	0.73	0.80	0.84	0.90	0.94	0.97	1.00	1.02	
	0.30		0.58	0.68	0.75	0.79	0.86	0.90	0.93	0.97	1.00	
	0.20		0.53	0.63	0.70	0.75	0.82	0.87	0.91	0.95	0.98	
0.30	0.50	0.20	0.62	0.72	0.78	0.82	0.87	0.91	0.93	0.96	0.98	
	0.30		0.57	0.67	0.73	0.78	0.84	0.88	0.91	0.94	0.97	
	0.20		0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95	
0.00	0.00	0.00	0.51	0.60	0.67	0.71	0.78	0.82	0.84	0.88	0.90	
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>												

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	0.87	0.70	0.58	0.50	0.39	0.32	0.27	0.21	0.17
	0.30		0.72	0.60	0.51	0.44	0.36	0.30	0.25	0.20	0.16
	0.20		0.62	0.52	0.45	0.40	0.32	0.27	0.24	0.19	0.15
0.50	0.50	0.20	0.83	0.67	0.55	0.48	0.37	0.34	0.26	0.20	0.16
	0.30		0.70	0.58	0.49	0.43	0.34	0.28	0.24	0.19	0.15
	0.20		0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15
0.30	0.50	0.20	0.81	0.64	0.53	0.45	0.35	0.29	0.24	0.18	0.15
	0.30		0.69	0.56	0.47	0.41	0.33	0.27	0.23	0.18	0.14
	0.20		0.60	0.50	0.43	0.38	0.30	0.25	0.22	0.17	0.14
0.00	0.00	0.00	0.49	0.39	0.33	0.28	0.22	0.18	0.15	0.12	0.10
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											

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	0.17	0.18	0.18	0.19	0.20	0.21	0.21	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	0.14	0.15	0.17	0.18
0.50	0.50	0.20	0.15	0.16	0.17	0.18	0.19	0.19	0.20	0.20	0.21
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.15	0.16	0.17
0.30	0.50	0.20	0.15	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.16	0.18	0.18
	0.20		0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.16	0.17
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<p>Rating: 41W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980</p>											