

Report No.:

Test Time: 10.12.2020 14:24

Luminaire Property

Luminaire Manufacturer:

Luminaire Description: FG 55 48LED 0,35A 2x55W 4000K prozrachnoe steclo

Number of Lamps: 1

Lumens per Lamp: 15260.6 lm

Luminous Length (mm): 55 mm

Luminous Width (mm): 1245 mm

Luminous Height (mm): 90 mm

Voltage: 221.3 V

Current: 0.477 A

Power: 103.55 W

Power Factor: 0.979

Photometric Results

CIE Class: Direct

Total Rated Lamp Lumens: 15260.6 lm

Measurement Flux: 15260.6 lm

Efficiency: 100.00%

Downward Ratio: 99.54%

Upward Ratio: 0.46%

Field Angle(C0/C180,C90/C270,C45/C225,C135/315): 156.4, 158.9, 160.5, 153.8

Beam Angle(C0/C180,C90/C270,C45/C225,C135/315): 114.6, 121.7, 122.7, 121.8

Luminaire Efficacy Rating (LER): 147.42

Central Intensity: 5249.94 cd

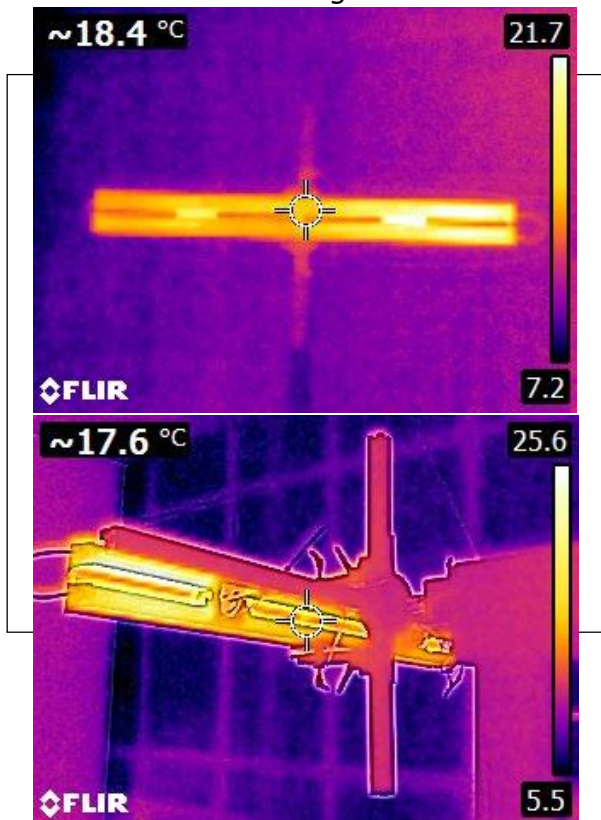
Max. Intensity: 5285.09 cd

Pos of Max. Intensity: H270 V4

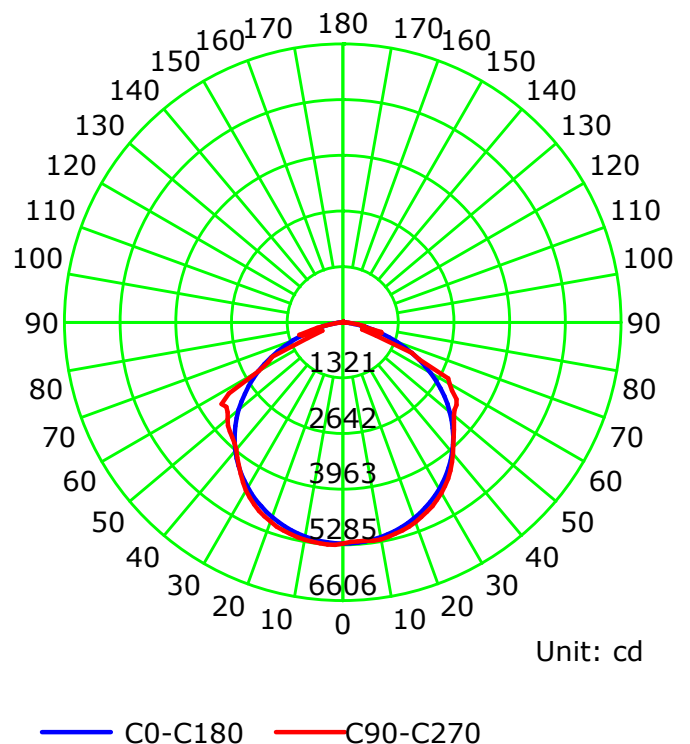
S/MH(C0/C180): 1.29

S/MH(C90/C270): 1.30

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: 12.682 m

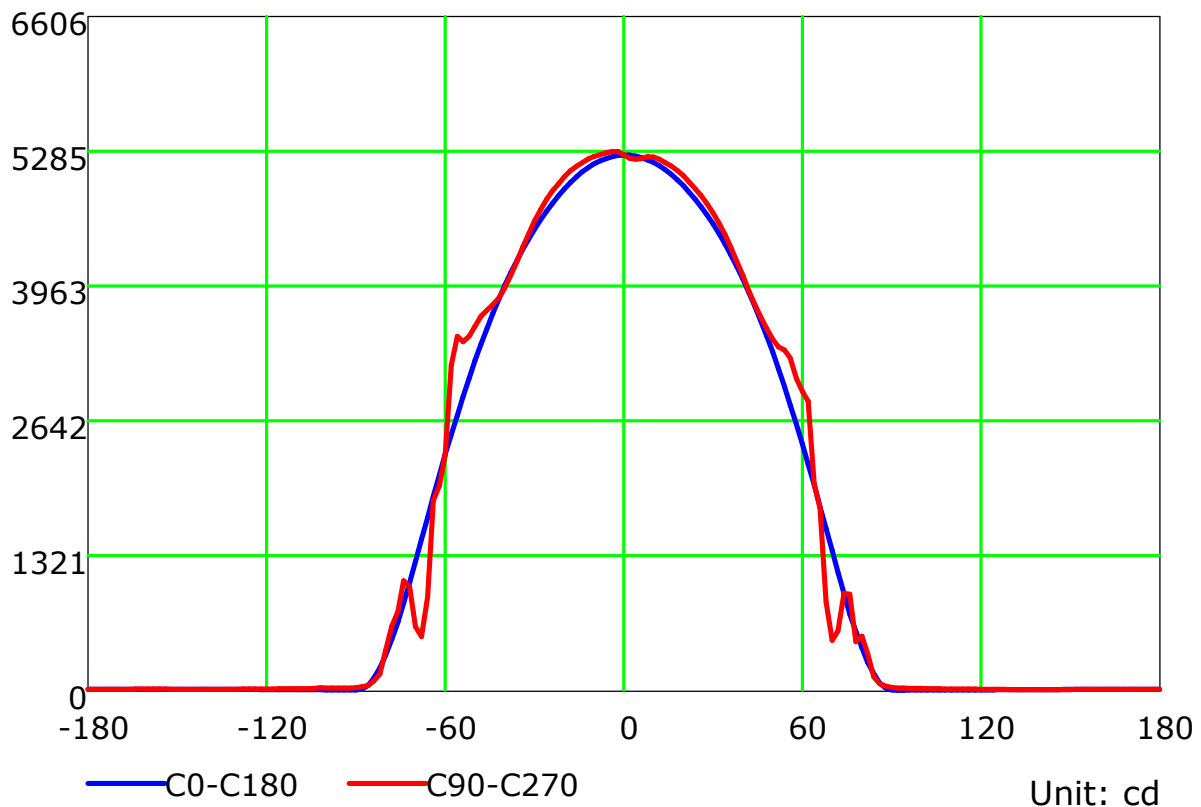
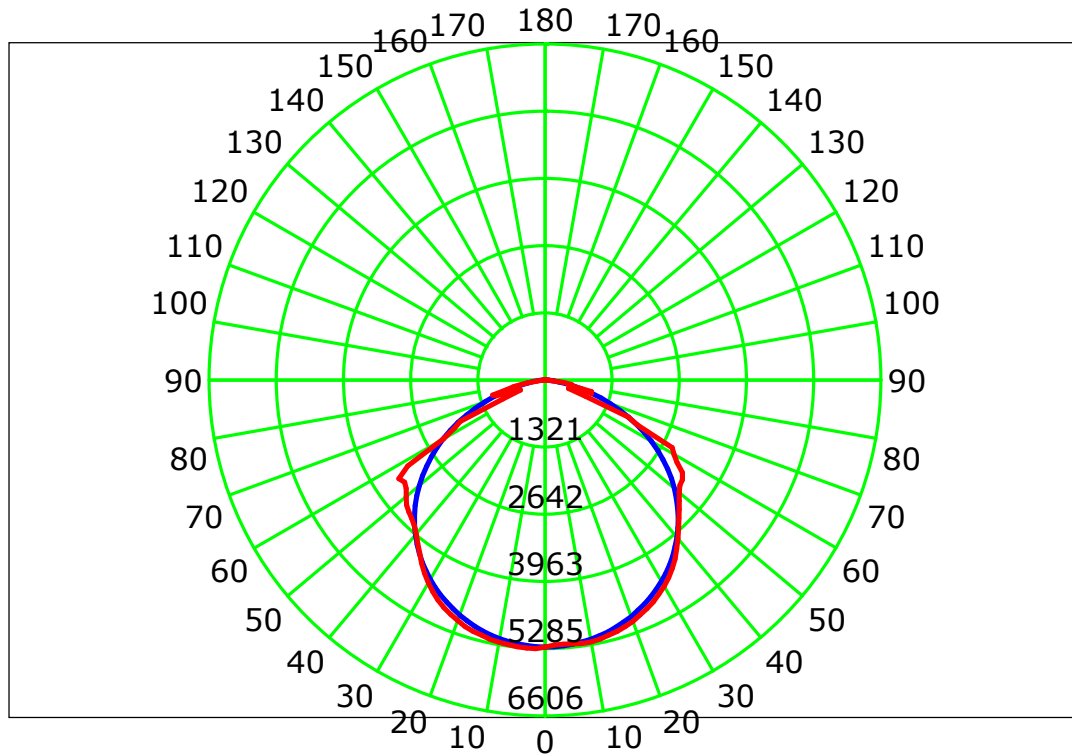
Temperature:

Humidity:

Operator:

Inspector:

Luminous Intensity Distribution Curve



Unit: cd

C Plane (°):0.0-360.0: 22.5

Test Lab:

Test Type: TYPE C

Temperature:

Operator:

Gamma Plane (°):0.0-180.0:2.0

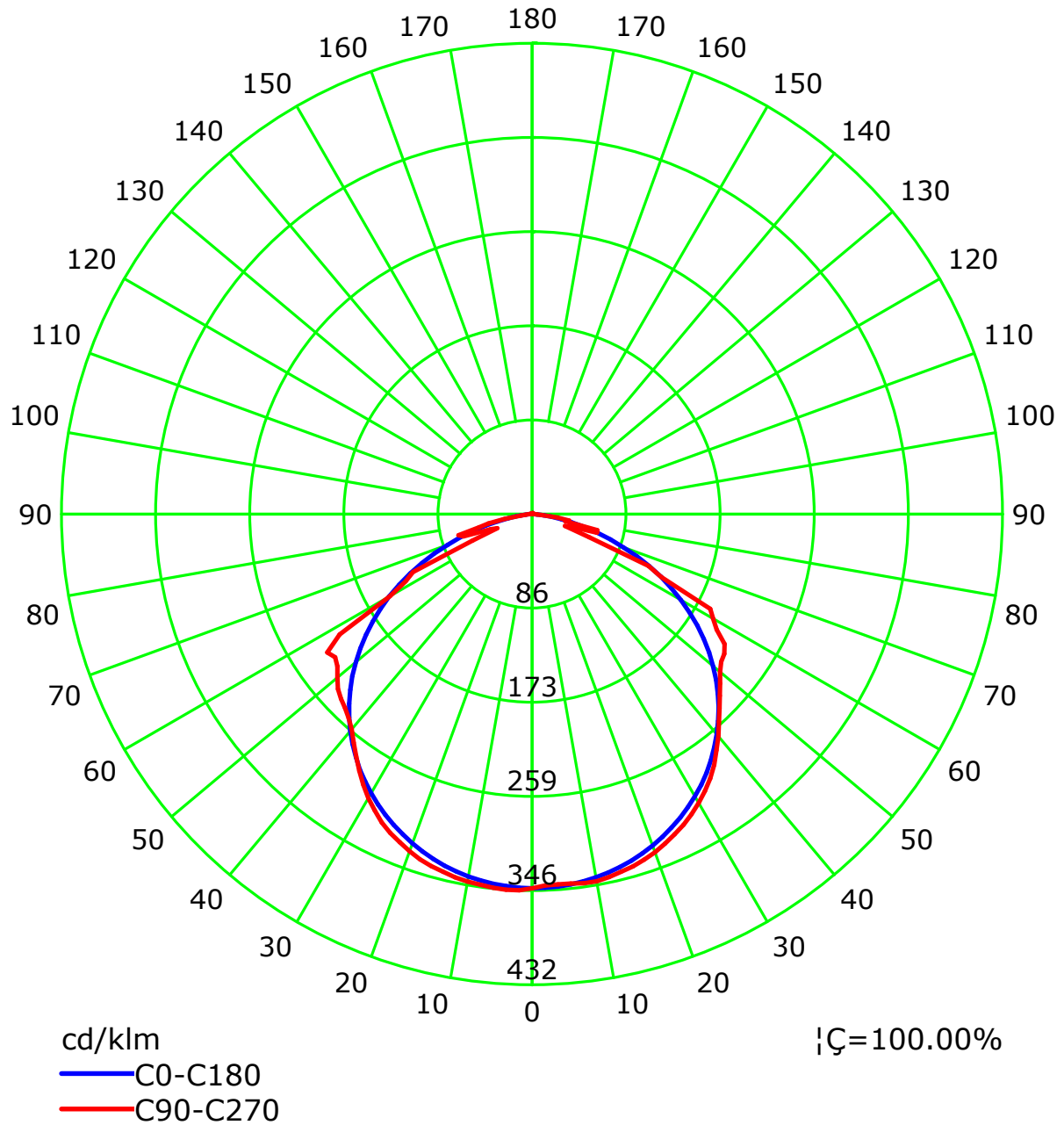
Test Device: LSG-1800B

Distance: 12.682 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: 12.682 m

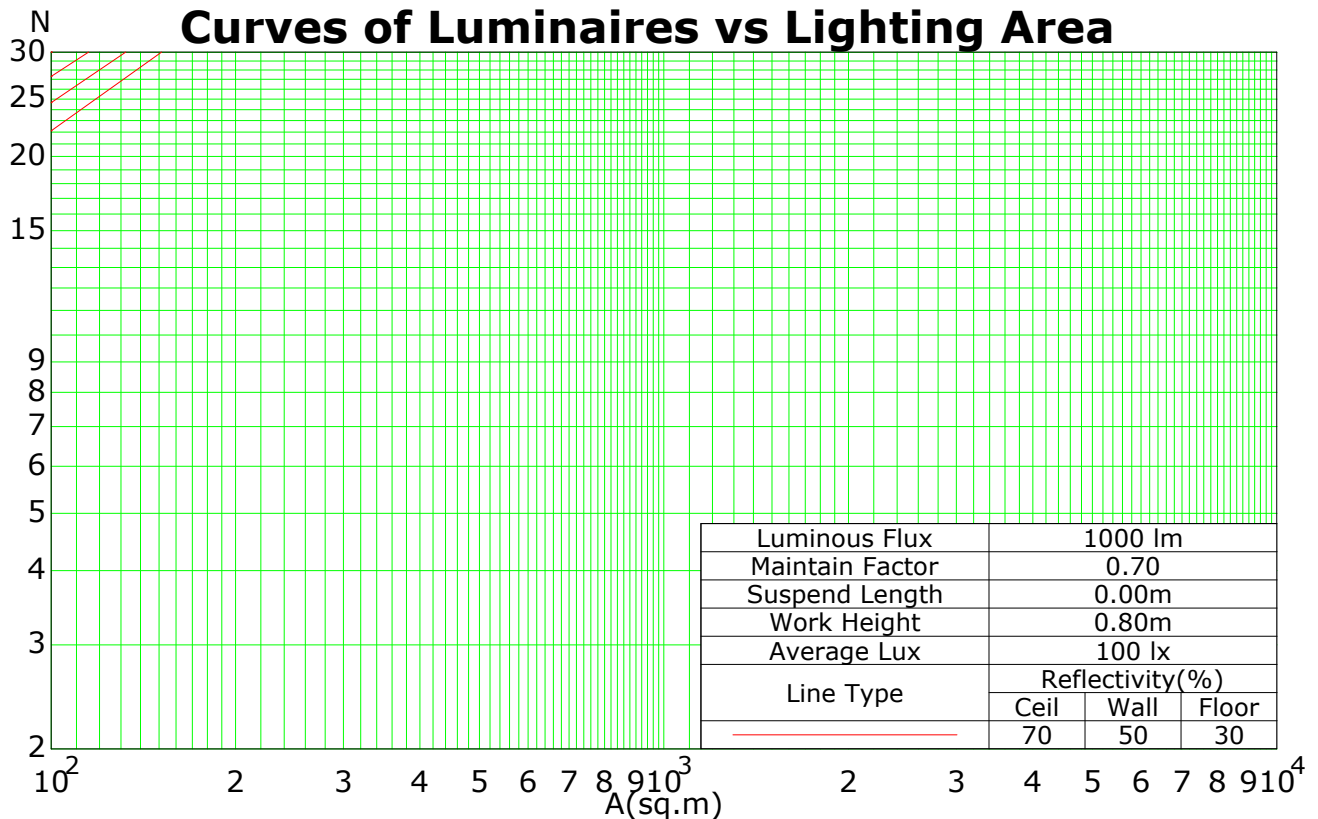
Humidity:

Inspector:

Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	90	88	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

Spacing Criteria (0-180): 1.29
 Spacing Criteria (90-270): 1.30
 Spacing Criteria (Diagonal): 1.41



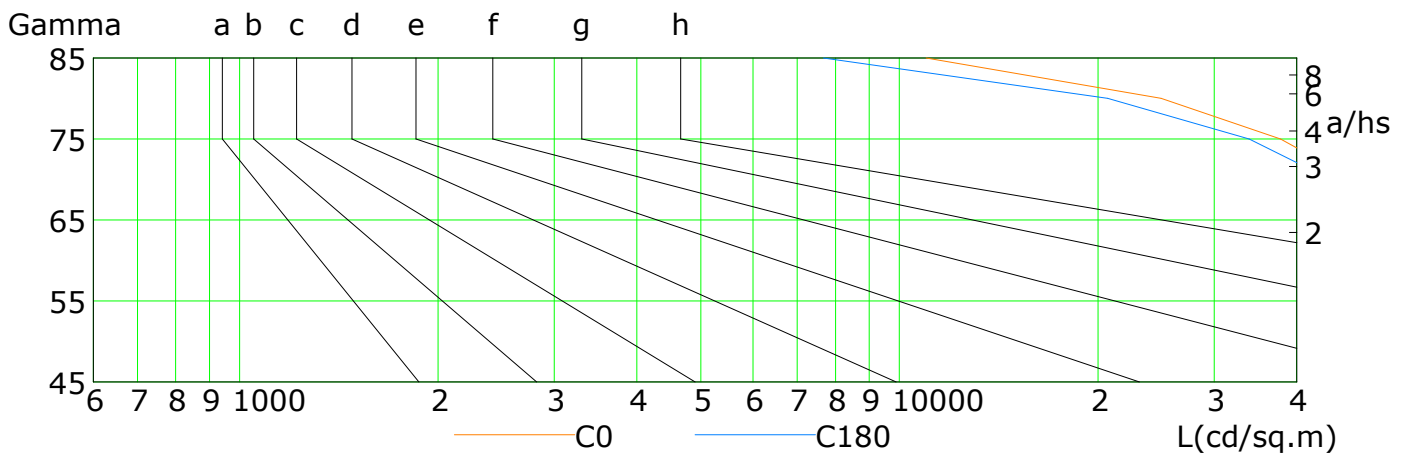
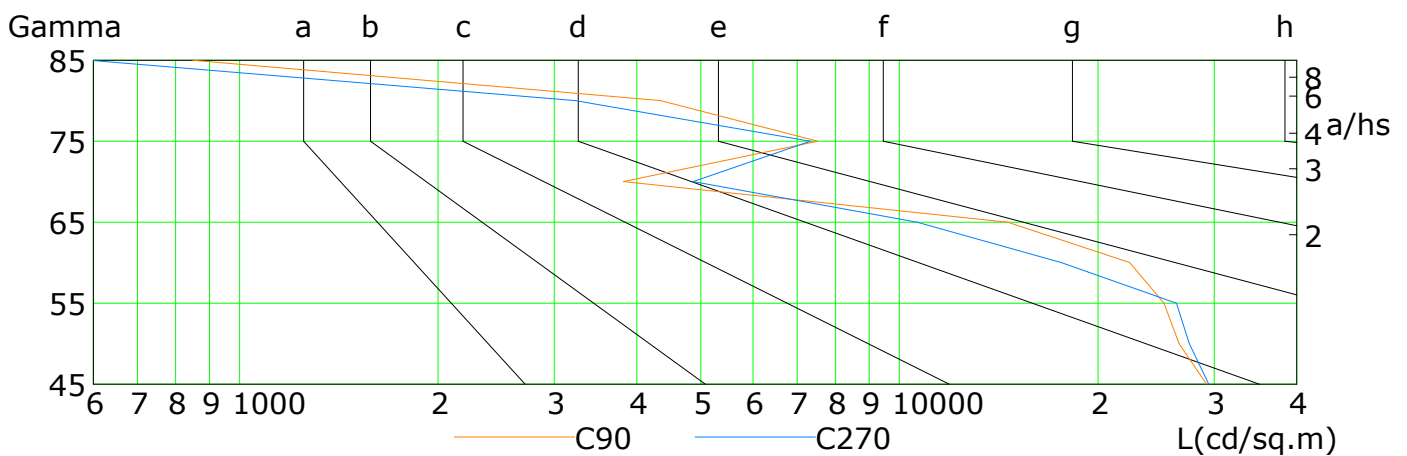
C Plane (°):0.0-360.0: 22.5
 Test Lab:
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Gamma Plane (°):0.0-180.0:2.0
 Test Device: LSG-1800B
 Distance: 12.682 m
 Humidity:
 Inspector:

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	71267	69460	66668	62687	57081	48891	37813	24925	10985
C90	29201	26531	25175	22350	14598	3816	7523	4343	850
C180	69841	67622	64380	60181	53834	45001	33882	20684	7675
C270	29427	27490	26291	17589	10641	4870	7327	3225	597

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: 12.682 m

Humidity:

Inspector:

Zonal Lumen

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-2.0	5249.6	20.1	20.1	0.13	0.13
2.0-4.0	5244.4	60.2	80.3	0.39	0.53
4.0-6.0	5235.8	100.1	180.4	0.66	1.18
6.0-8.0	5224.9	139.6	320.0	0.92	2.10
8.0-10.0	5211.1	178.8	498.8	1.17	3.27
10.0-12.0	5190.5	217.2	716.0	1.42	4.69
12.0-14.0	5160.9	254.6	970.6	1.67	6.36
14.0-16.0	5124.3	290.9	1261.5	1.91	8.27
16.0-18.0	5081.5	325.8	1587.3	2.14	10.40
18.0-20.0	5031.3	359.2	1946.6	2.35	12.76
20.0-22.0	4974.0	390.9	2337.5	2.56	15.32
22.0-24.0	4910.5	420.8	2758.3	2.76	18.07
24.0-26.0	4840.2	448.6	3206.9	2.94	21.01
26.0-28.0	4761.6	474.1	3681.0	3.11	24.12
28.0-30.0	4673.6	496.9	4177.9	3.26	27.38
30.0-32.0	4577.0	517.0	4694.9	3.39	30.76
32.0-34.0	4472.7	534.3	5229.1	3.50	34.27
34.0-36.0	4359.4	548.4	5777.5	3.59	37.86
36.0-38.0	4237.2	559.3	6336.8	3.66	41.52
38.0-40.0	4108.2	567.0	6903.8	3.72	45.24
40.0-42.0	3974.0	571.8	7475.6	3.75	48.99
42.0-44.0	3837.3	573.9	8049.5	3.76	52.75
44.0-46.0	3700.7	573.9	8623.4	3.76	56.51
46.0-48.0	3564.7	571.8	9195.2	3.75	60.25
48.0-50.0	3426.6	567.2	9762.4	3.72	63.97
50.0-52.0	3285.1	559.9	10322.3	3.67	67.64
52.0-54.0	3147.5	551.3	10873.6	3.61	71.25
54.0-56.0	3022.9	543.1	11416.6	3.56	74.81
56.0-58.0	2895.5	532.6	11949.2	3.49	78.30
58.0-60.0	2700.3	507.6	12456.8	3.33	81.63
60.0-62.0	2453.6	470.6	12927.5	3.08	84.71
62.0-64.0	2217.0	433.2	13360.7	2.84	87.55
64.0-66.0	1901.9	378.0	13738.8	2.48	90.03
66.0-68.0	1507.5	304.3	14043.1	1.99	92.02
68.0-70.0	1164.6	238.5	14281.5	1.56	93.58
70.0-72.0	935.2	193.9	14475.5	1.27	94.86

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: 12.682 m

Humidity:

Inspector:

Zonal Lumen (Continue 1)

Gamma [°]	I _{mean} [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-74.0	823.6	172.7	14648.2	1.13	95.99
74.0-76.0	740.2	156.8	14805.0	1.03	97.01
76.0-78.0	600.2	128.3	14933.3	0.84	97.86
78.0-80.0	450.6	97.0	15030.3	0.64	98.49
80.0-82.0	324.3	70.3	15100.5	0.46	98.95
82.0-84.0	204.1	44.4	15145.0	0.29	99.24
84.0-86.0	114.4	25.0	15170.0	0.16	99.41
86.0-88.0	60.8	13.3	15183.3	0.09	99.49
88.0-90.0	30.1	6.6	15189.9	0.04	99.54
90.0-92.0	18.3	4.0	15193.9	0.03	99.56
92.0-94.0	16.2	3.5	15197.4	0.02	99.59
94.0-96.0	15.4	3.4	15200.8	0.02	99.61
96.0-98.0	14.6	3.2	15204.0	0.02	99.63
98.0-100.0	14.1	3.0	15207.0	0.02	99.65
100.0-102.0	13.4	2.9	15209.9	0.02	99.67
102.0-104.0	12.2	2.6	15212.5	0.02	99.68
104.0-106.0	10.9	2.3	15214.8	0.02	99.70
106.0-108.0	10.2	2.1	15217.0	0.01	99.71
108.0-110.0	9.8	2.0	15219.0	0.01	99.73
110.0-112.0	9.7	2.0	15221.0	0.01	99.74
112.0-114.0	9.9	2.0	15223.0	0.01	99.75
114.0-116.0	10.0	2.0	15225.0	0.01	99.77
116.0-118.0	9.7	1.9	15226.9	0.01	99.78
118.0-120.0	9.4	1.8	15228.7	0.01	99.79
120.0-122.0	9.3	1.7	15230.4	0.01	99.80
122.0-124.0	9.1	1.7	15232.1	0.01	99.81
124.0-126.0	9.0	1.6	15233.7	0.01	99.82
126.0-128.0	9.0	1.6	15235.3	0.01	99.83
128.0-130.0	9.0	1.5	15236.8	0.01	99.84
130.0-132.0	9.0	1.5	15238.3	0.01	99.85
132.0-134.0	9.1	1.5	15239.7	0.01	99.86
134.0-136.0	9.2	1.4	15241.2	0.01	99.87
136.0-138.0	9.4	1.4	15242.6	0.01	99.88
138.0-140.0	9.7	1.4	15244.0	0.01	99.89
140.0-142.0	9.9	1.4	15245.3	0.01	99.90
142.0-144.0	10.2	1.3	15246.7	0.01	99.91

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: 12.682 m

Humidity:

Inspector:

Zonal Lumen (Continue 2)

[illegible]

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: 12.682 m

Humidity:

Inspector: