Product Info

Luminaire Category : **LED**
Luminaire : **20991LEDDCS**
Manufacturer :
Number of Lamps : **1** Lumens per Lamp : **907 lm**
Luminous Length : **100 mm** Luminous Width : **100 mm** Luminous Height : **0 mm**

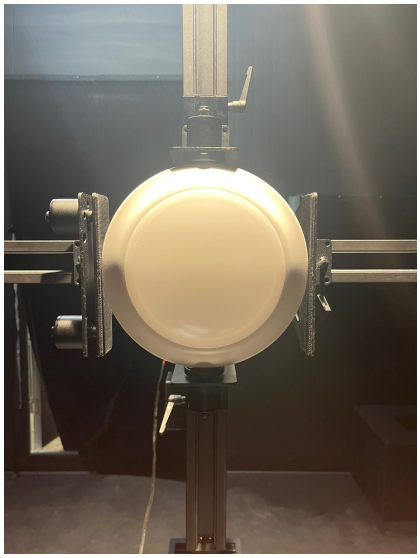
Electric Parameters

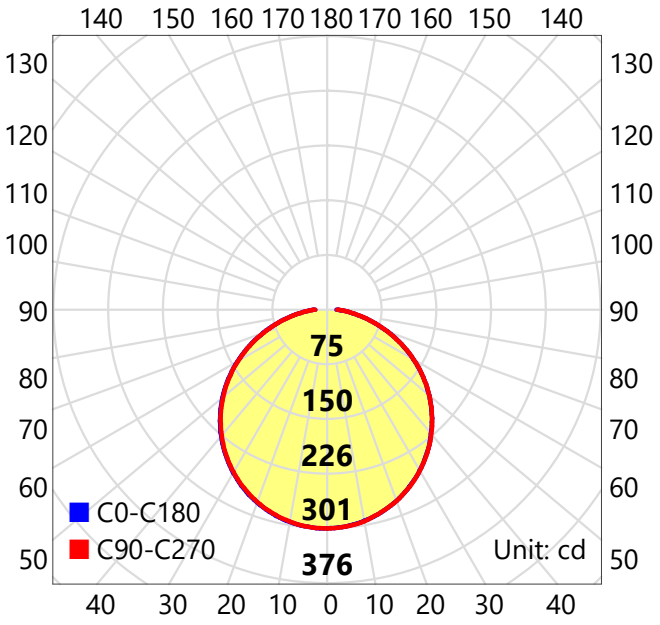
Voltage : **119.60 V** Current : **0.1170 A** Power : **12.68 W** Power Factor : **0.906** Frequency : **60.15 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **906.8 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **300.67 cd**
Central Intensity : **300.47 cd**
Luminaire Efficacy Rating (LER) : **72**
Conical Flux (90°) : **465.06 lm (51.3%)**
Beam Angle (C0-C180,C90-C270) : **115.7 °, 115.6 °**
Field Angle (C0-C180,C90-C270) : **168.4 °, 168.7 °**

Total Rated Lamp Lumens : **906.8 lm**
Efficiency : **100.00 %**
Downward Ratio : **100.00 %**
Position Of Maximum Intensity : **C270° γ1°**
S/MH(C0-C180,C90-C270) : **1.27, 1.27**
Energy Efficiency Class : **G (EU 2019/2015 ηTM:72lm/W)**
Conical Flux (120°) : **689.86 lm (76.1%)**
Beam Angle (C45-C225,C135-C315) : **115.6 °, 115.7 °**
Field Angle (C45-C225,C135-C315) : **168.7 °, 168.5 °**

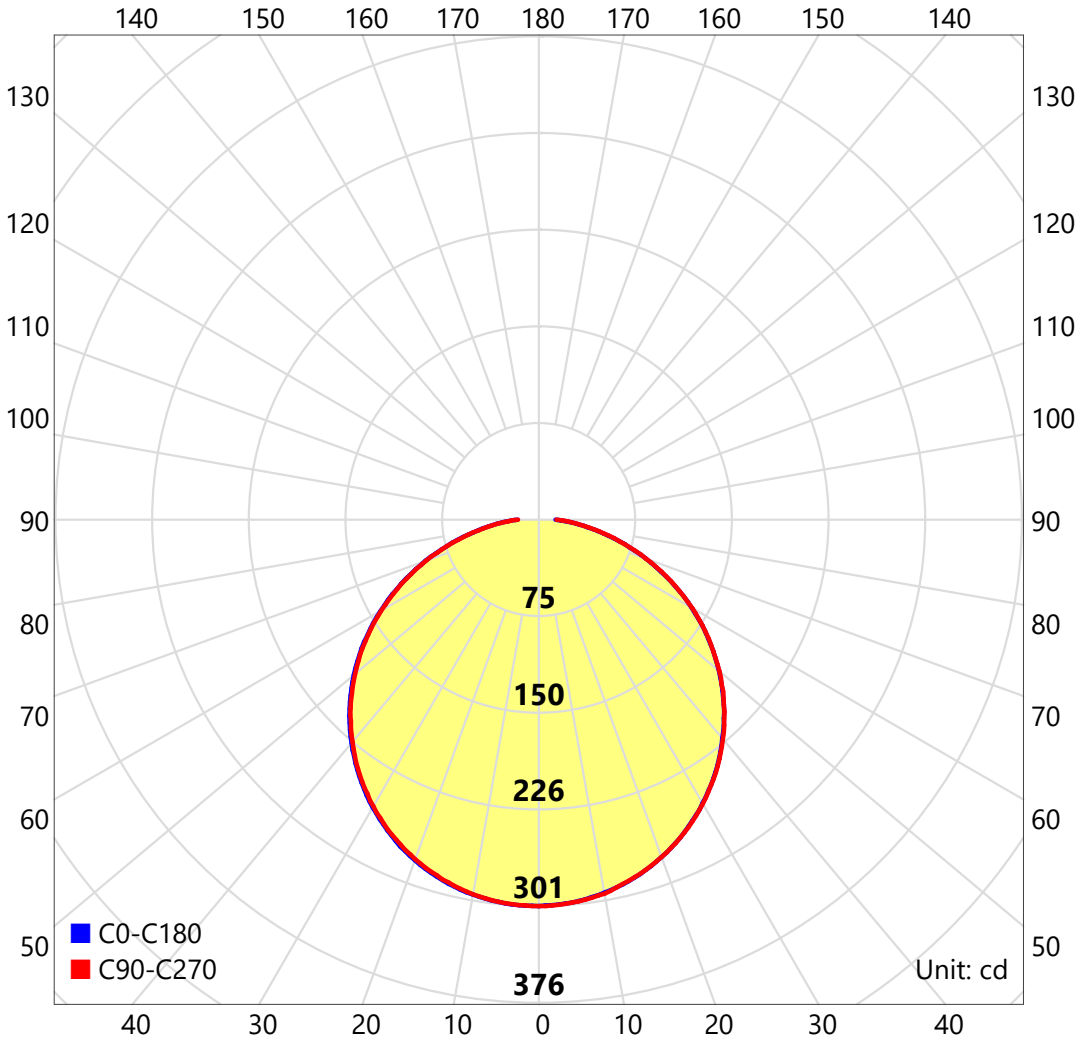


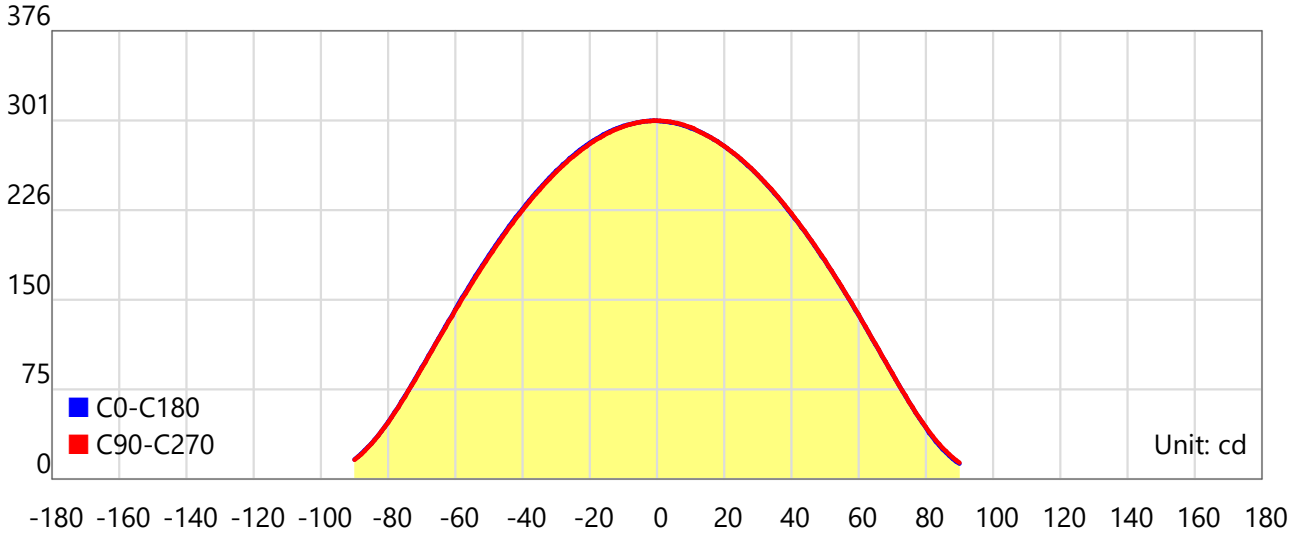


Average Beam Angle (50%): 115.6°

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

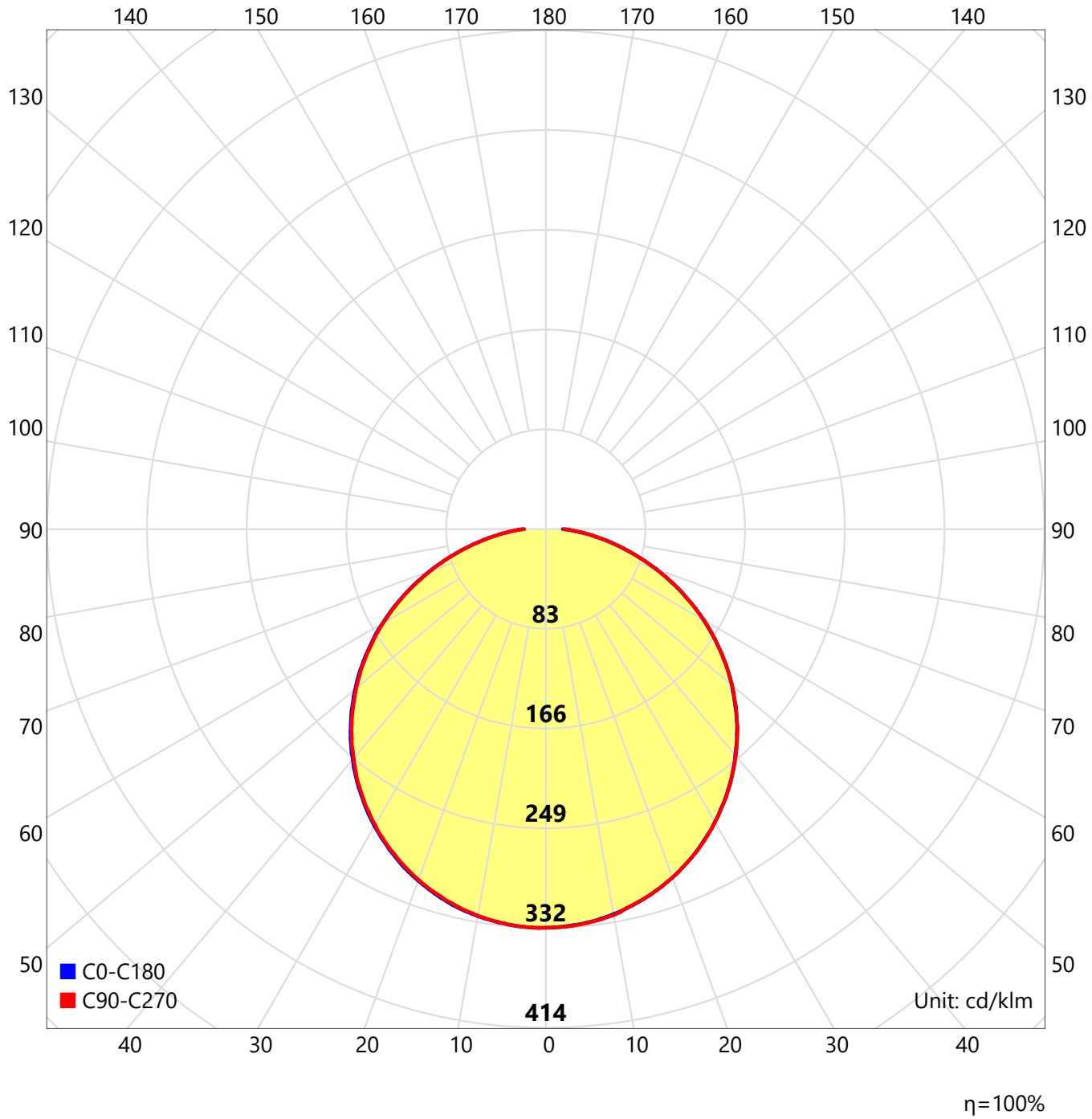
Light Distribution Curve





Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Light Distribution Curve (cd/klm)



η=100%

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

UGR

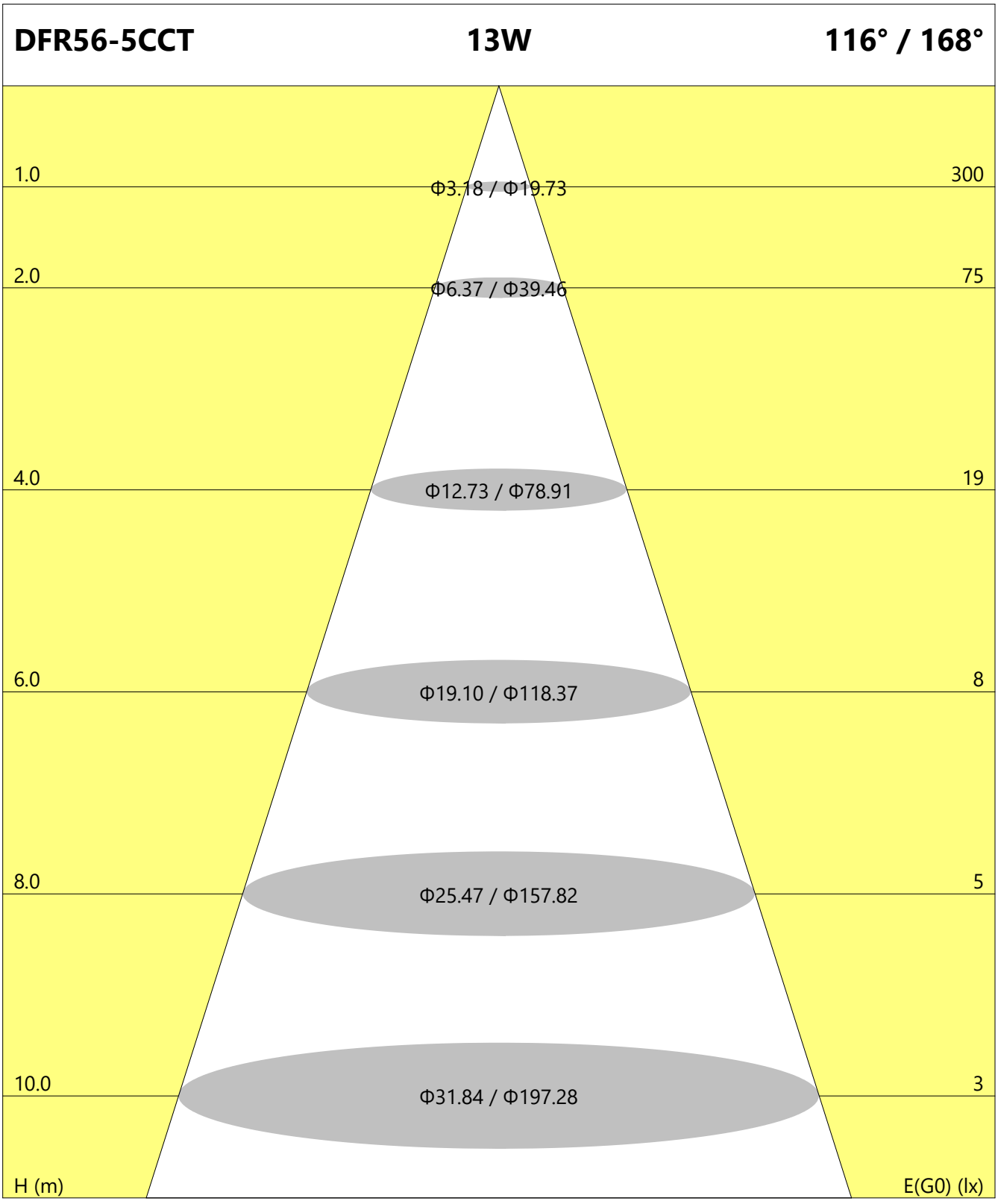
Reflectance											
Ceiling (cavity)		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	23.7	25.3	24.0	25.7	26.0	23.7	25.4	24.1	25.7	26.0
	3H	25.6	27.1	26.0	27.4	27.8	25.6	27.1	26.0	27.5	27.8
	4H	26.3	27.8	26.7	28.1	28.5	26.4	27.8	26.8	28.2	28.5
	6H	27.0	28.3	27.4	28.7	29.1	27.0	28.3	27.4	28.7	29.1
	8H	27.2	28.5	27.6	28.9	29.3	27.3	28.5	27.7	28.9	29.3
	12H	27.5	28.7	27.9	29.1	29.5	27.5	28.7	27.9	29.1	29.6
X=4H	Y=2H	24.3	25.8	24.7	26.1	26.5	24.4	25.8	24.8	26.2	26.5
	3H	26.5	27.7	26.9	28.1	28.5	26.5	27.7	26.9	28.1	28.5
	4H	27.4	28.5	27.8	28.9	29.3	27.4	28.5	27.9	28.9	29.4
	6H	28.2	29.1	28.6	29.6	30.0	28.2	29.2	28.7	29.6	30.1
	8H	28.5	29.4	28.9	29.8	30.3	28.5	29.4	29.0	29.9	30.4
	12H	28.8	29.6	29.3	30.1	30.6	28.9	29.7	29.3	30.2	30.6
X=8H	Y=4H	27.8	28.7	28.2	29.1	29.6	27.8	28.7	28.3	29.1	29.6
	6H	28.7	29.5	29.2	30.0	30.4	28.7	29.5	29.2	30.0	30.5
	8H	29.1	29.8	29.6	30.3	30.8	29.2	29.9	29.7	30.4	30.9
	12H	29.6	30.2	30.1	30.7	31.2	29.6	30.2	30.1	30.7	31.3
X=12H	Y=4H	27.8	28.6	28.3	29.1	29.6	27.8	28.7	28.3	29.1	29.6
	6H	28.8	29.5	29.3	30.0	30.5	28.9	29.5	29.4	30.0	30.5
	8H	29.3	29.9	29.8	30.4	31.0	29.4	30.0	29.9	30.5	31.0

Calculate in accordance with CIE 190:2010. The table is corrected with 907lm (8log(F/F0) = -0.3).

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	24.2	25.6	24.5	25.8	26.1	24.2	25.6	24.5	25.9	26.1
	3H	25.8	27.1	26.1	27.4	27.7	25.9	27.2	26.2	27.5	27.8
	4H	26.5	27.7	26.9	28.0	28.3	26.6	27.9	27.0	28.2	28.5
	6H	27.1	28.3	27.5	28.6	28.9	27.2	28.4	27.6	28.7	29.0
	8H	27.3	28.5	27.7	28.8	29.1	27.5	28.6	27.9	29.0	29.3
	12H	27.6	28.6	27.9	29.0	29.3	27.8	28.8	28.2	29.2	29.5
X=4H	Y=2H	24.9	26.1	25.2	26.4	26.7	24.9	26.1	25.3	26.4	26.7
	3H	26.7	27.8	27.1	28.1	28.5	26.8	27.9	27.2	28.2	28.5
	4H	27.6	28.5	28.0	28.9	29.3	27.7	28.6	28.1	29.0	29.4
	6H	28.3	29.2	28.7	29.5	29.9	28.4	29.3	28.9	29.7	30.1
	8H	28.6	29.4	29.1	29.8	30.2	28.8	29.6	29.2	30.0	30.4
	12H	28.9	29.6	29.4	30.0	30.5	29.1	29.8	29.6	30.3	30.7
X=8H	Y=4H	27.9	28.7	28.4	29.1	29.5	28.0	28.8	28.5	29.2	29.6
	6H	28.9	29.5	29.3	29.9	30.4	29.0	29.6	29.4	30.1	30.5
	8H	29.3	29.9	29.8	30.3	30.8	29.4	30.0	29.9	30.5	31.0
	12H	29.7	30.2	30.2	30.7	31.2	29.9	30.4	30.4	30.9	31.4
X=12H	Y=4H	28.0	28.7	28.4	29.1	29.6	28.1	28.8	28.5	29.2	29.6
	6H	29.0	29.5	29.4	30.0	30.5	29.1	29.7	29.6	30.1	30.6
	8H	29.5	30.0	30.0	30.4	30.9	29.6	30.1	30.1	30.6	31.1
Variations with the observer position at spacings											
S=1.0H		+0.2/-0.2					+0.2/-0.2				
S=1.5H		+0.4/-0.4					+0.4/-0.4				
S=2.0H		+0.5/-0.8					+0.5/-0.8				

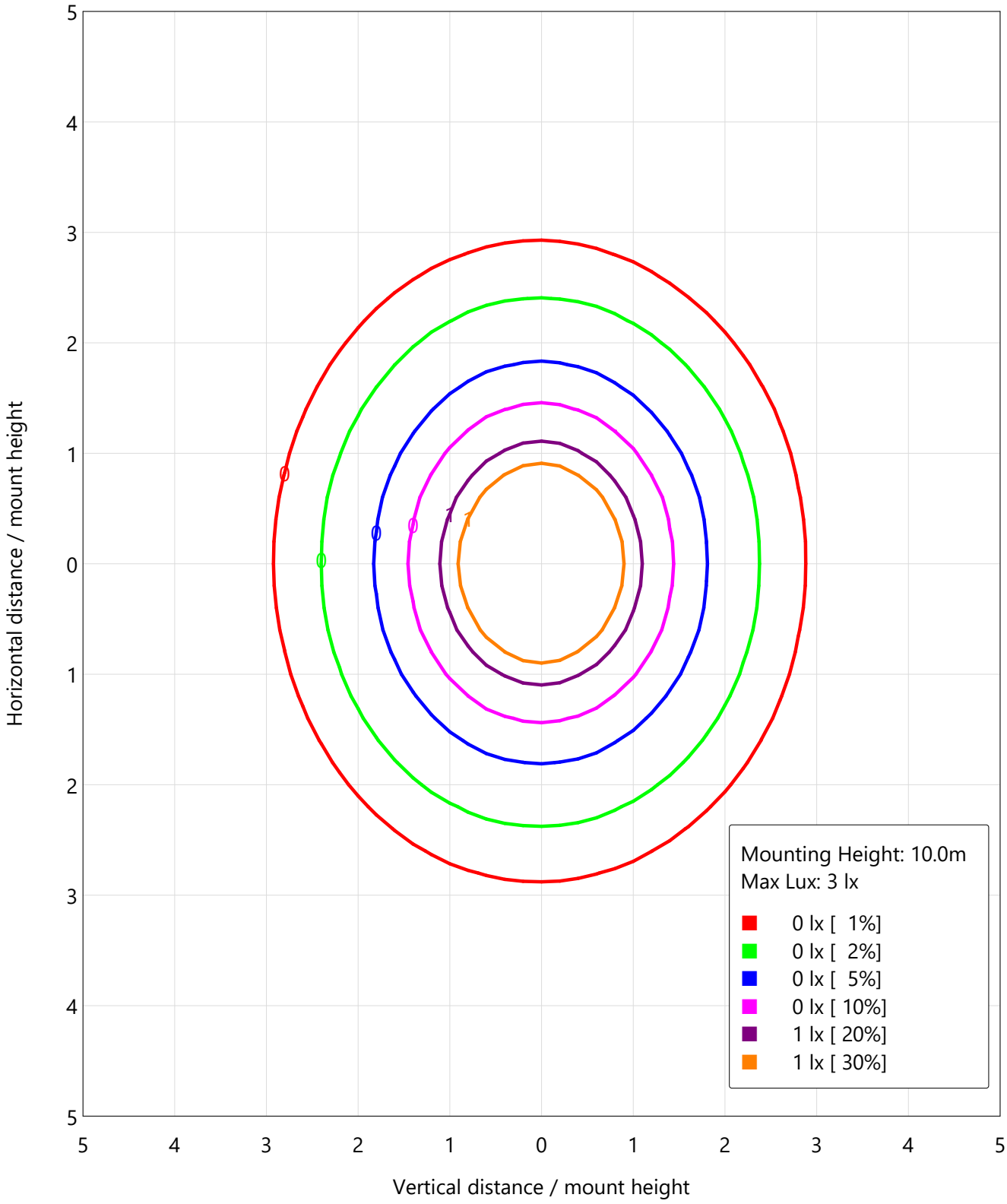
Calculate in accordance with CIE Pub.117. The table is corrected with 907lm (8log(F/F0) = -0.3).

Lux-Distance



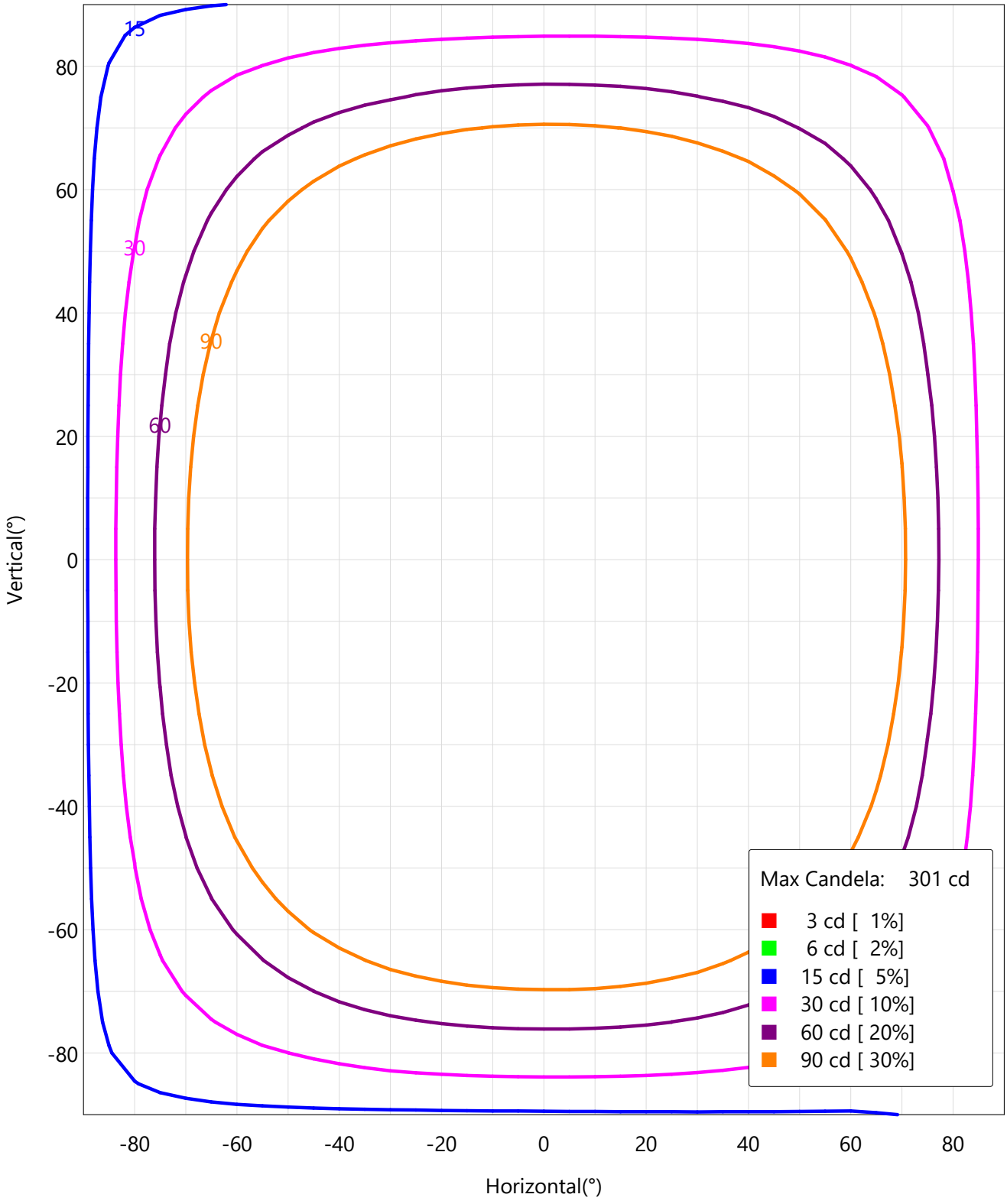
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

IsoLux



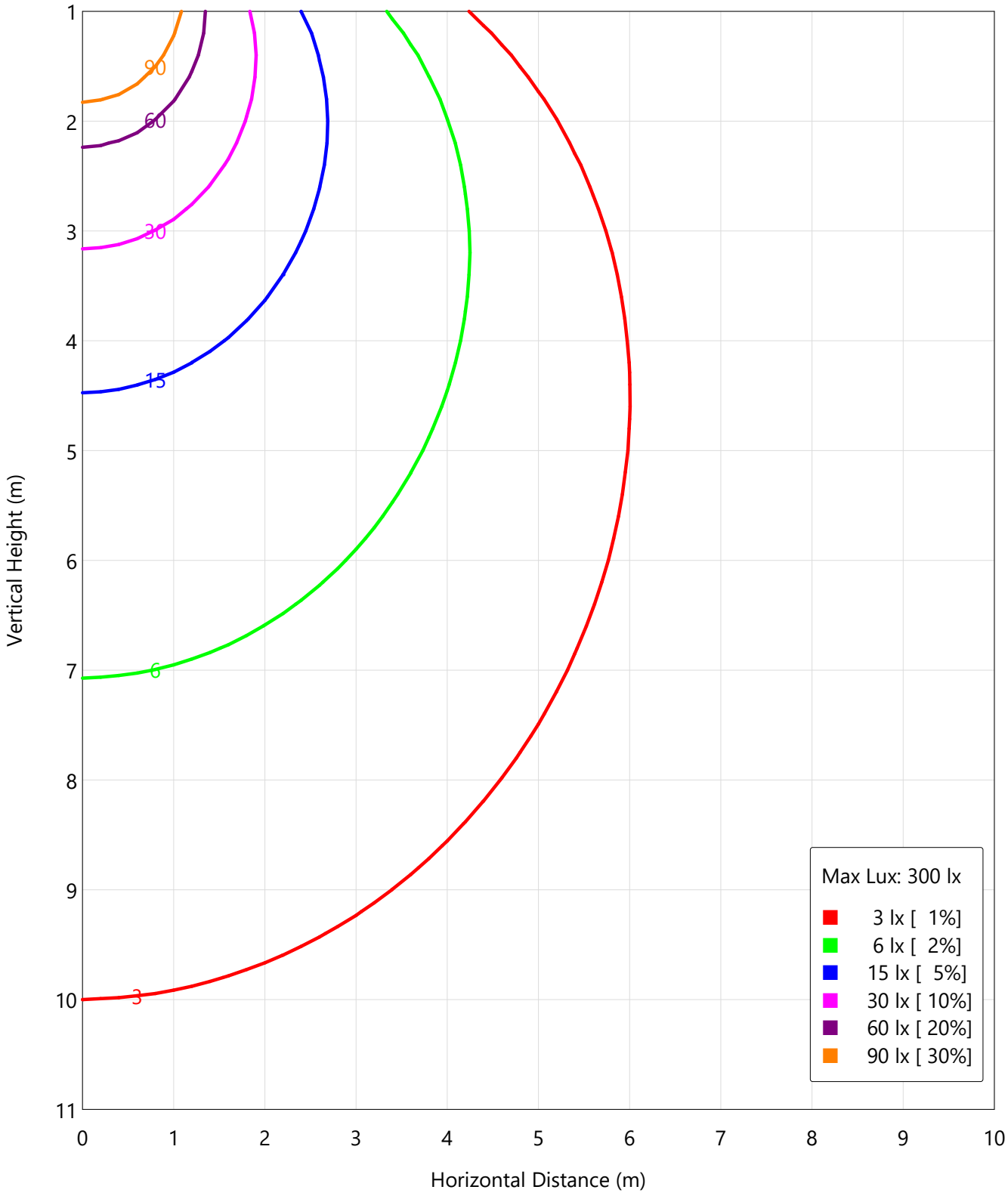
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

IsoCandela



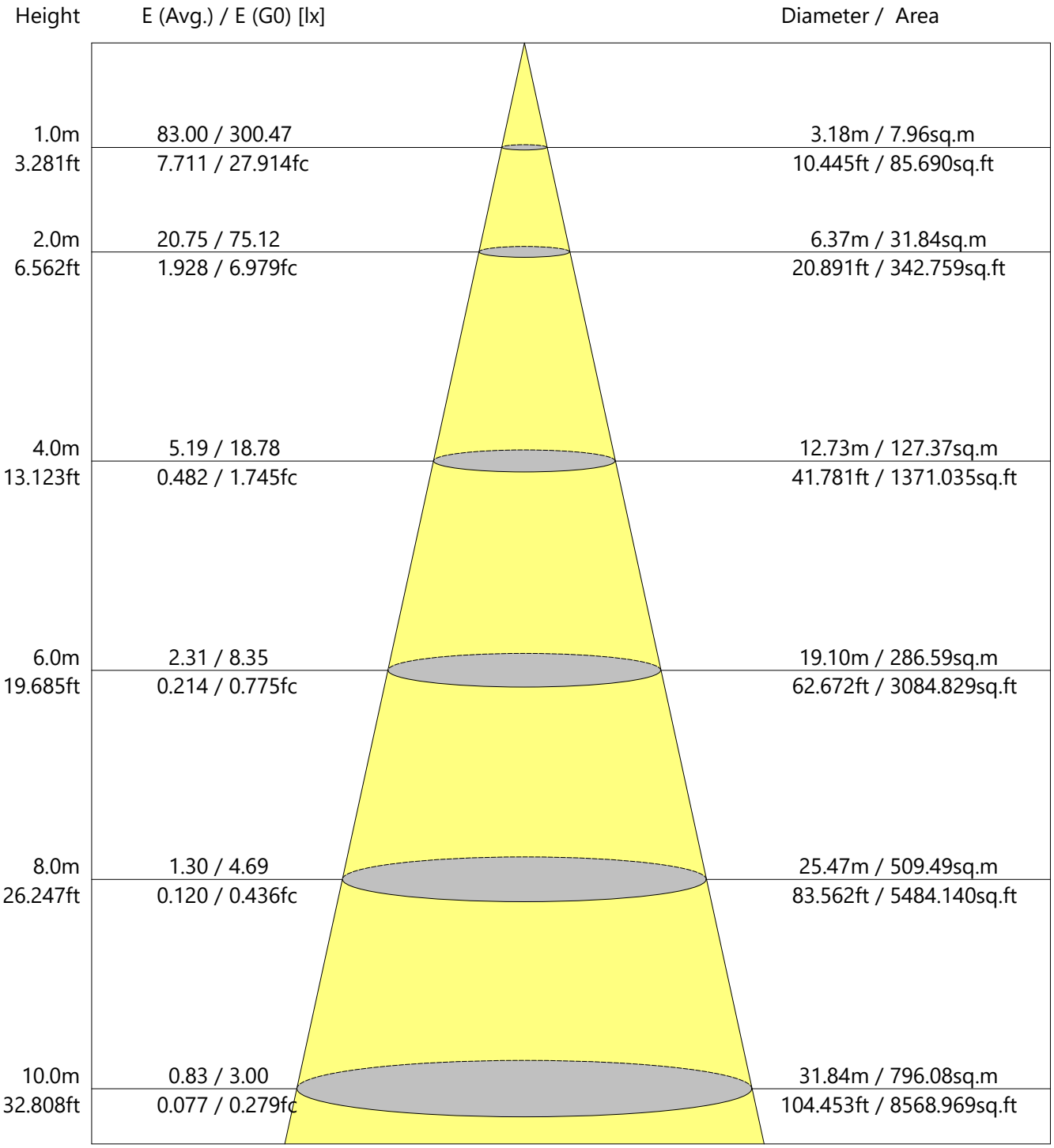
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Vertical IsoLux Plot



Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Average Illuminance Effective Figure



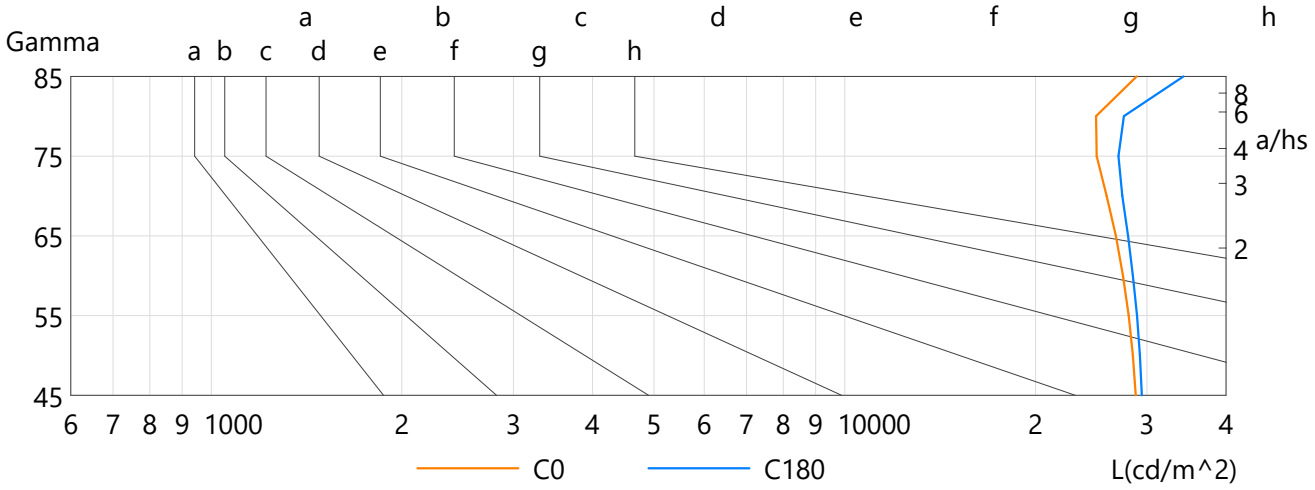
Beam Angle: 115.7° Flux Out: 660.75lm

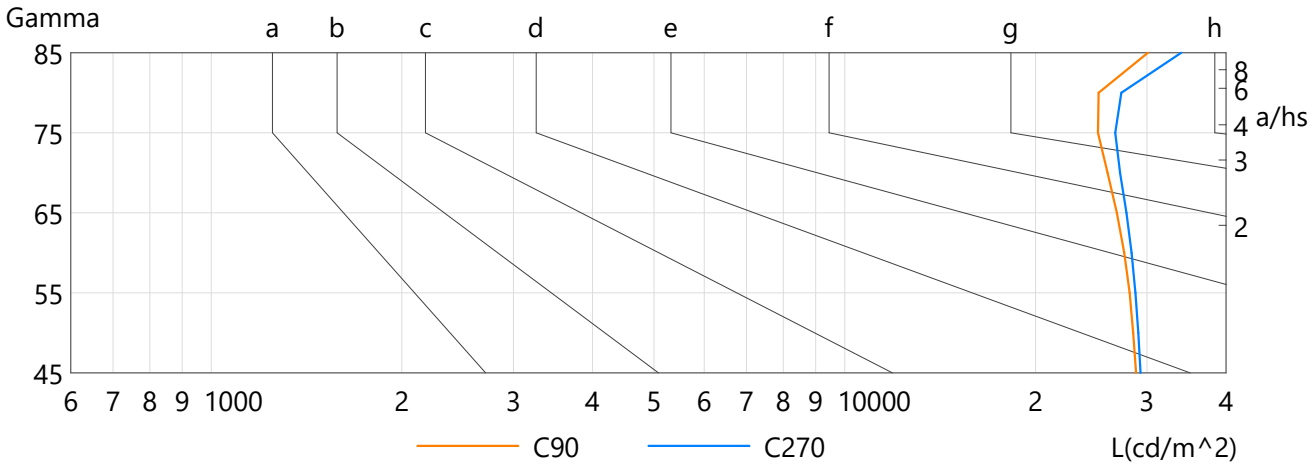
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Luminance Limit Curve

L (cd/m^2)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	28792	28503	28075	27498	26790	25889	24999	24918	28912
C90	28822	28545	28153	27606	26876	25996	25088	25155	30102
C180	29428	29228	28933	28499	27994	27417	27042	27578	34258
C270	29288	29064	28753	28375	27839	27192	26732	27323	33956

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





Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

TM5 UF Table

Utilisation Factors UF (F)							SHR NOM = 1.25				
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.55	0.65	0.73	0.78	0.85	0.91	0.94	0.99	1.02
	0.30		0.47	0.57	0.65	0.71	0.79	0.85	0.89	0.94	0.98
	0.20		0.41	0.51	0.59	0.65	0.73	0.80	0.84	0.90	0.95
0.50	0.50	0.20	0.53	0.63	0.70	0.75	0.82	0.87	0.90	0.95	0.98
	0.30		0.46	0.56	0.63	0.69	0.77	0.82	0.86	0.91	0.95
	0.20		0.41	0.51	0.58	0.64	0.72	0.78	0.82	0.88	0.92
0.30	0.50	0.20	0.52	0.61	0.68	0.73	0.79	0.84	0.87	0.91	0.94
	0.30		0.45	0.55	0.62	0.67	0.75	0.80	0.83	0.88	0.91
	0.20		0.40	0.50	0.57	0.63	0.70	0.76	0.80	0.85	0.89
0.00	0.00	0.00	0.38	0.48	0.54	0.60	0.67	0.72	0.76	0.81	0.84

Utilisation Factors UF (W)							SHR NOM = 1.25				
Room Reflectance			Room Index(RI)								
C	W	F	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	1.03	0.85	0.73	0.64	0.52	0.43	0.37	0.29	0.24
	0.30		0.86	0.73	0.64	0.57	0.47	0.40	0.34	0.27	0.23
	0.20		0.73	0.64	0.57	0.51	0.43	0.36	0.32	0.26	0.22
0.50	0.50	0.20	0.99	0.82	0.70	0.61	0.49	0.44	0.35	0.28	0.23
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.22
	0.20		0.73	0.63	0.56	0.50	0.42	0.36	0.31	0.25	0.21
0.30	0.50	0.20	0.96	0.79	0.68	0.59	0.47	0.39	0.34	0.26	0.22
	0.30		0.82	0.70	0.60	0.54	0.44	0.37	0.32	0.25	0.21
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.00	0.00	0.00	0.62	0.53	0.46	0.41	0.33	0.28	0.24	0.19	0.16

Utilisation Factors UF (C)							SHR NOM = 1.25				
Room Reflectance			Room Index(RI)								
C	W	F	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	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.10	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.04	0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.21
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.04	0.06	0.07	0.09	0.11	0.12	0.13	0.15	0.16
0.30	0.50	0.20	0.16	0.17	0.17	0.18	0.19	0.19	0.20	0.20	0.20
	0.30		0.09	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18
	0.20		0.04	0.06	0.07	0.09	0.10	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA

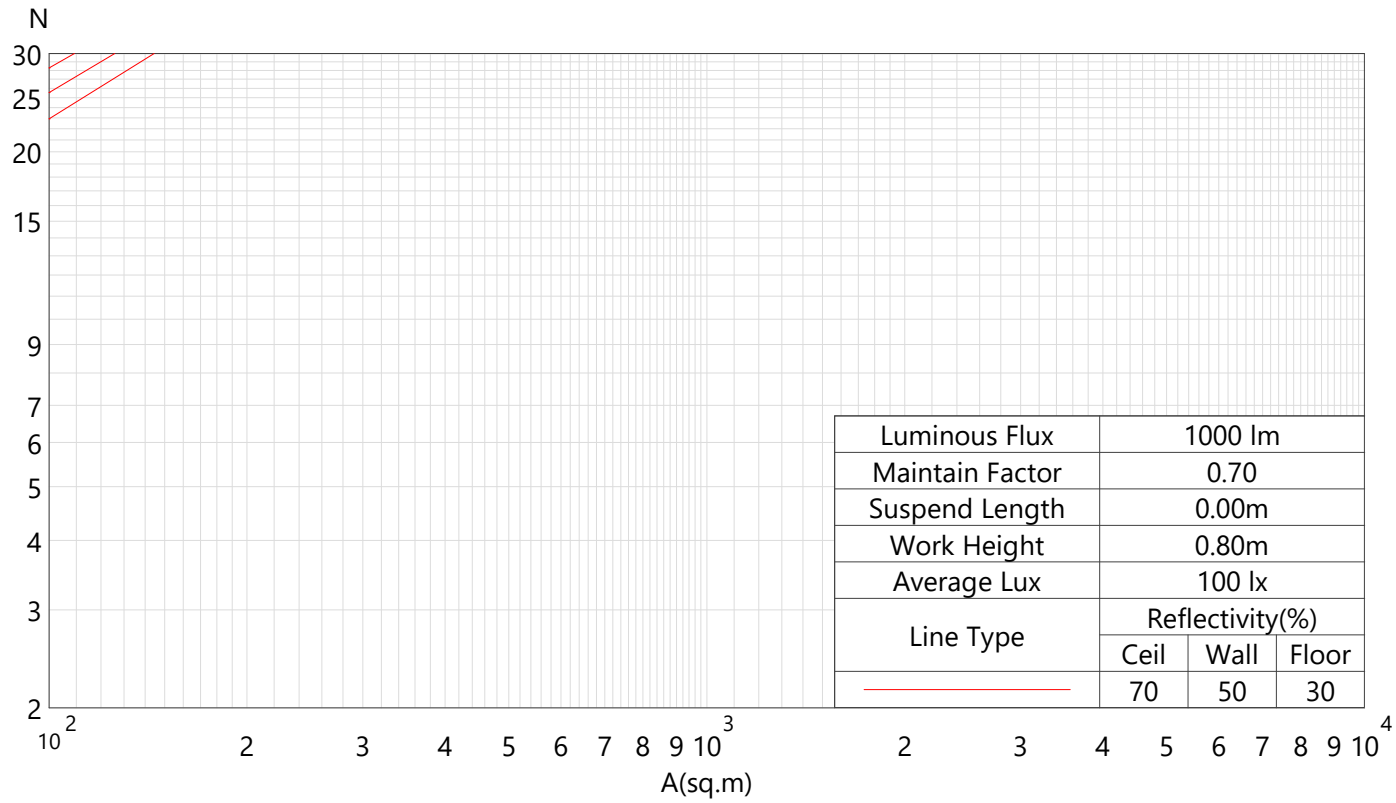
Rating: 13W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum No.5/1980

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Indoor CU, Curves of Luminaires vs Lighting Area

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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61	70	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

Spacing Criteria: 1.27 (0-180), 1.27 (90-270), 1.39 (Diagonal)



Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
0.0-1.0	300.4	0.3	0.3	0.03	0.03
1.0-2.0	300.3	0.9	1.1	0.10	0.13
2.0-3.0	300.1	1.4	2.6	0.16	0.29
3.0-4.0	299.8	2.0	4.6	0.22	0.51
4.0-5.0	299.4	2.6	7.2	0.28	0.79
5.0-6.0	298.9	3.1	10.3	0.35	1.14
6.0-7.0	298.3	3.7	14.0	0.41	1.55
7.0-8.0	297.6	4.3	18.3	0.47	2.02
8.0-9.0	296.8	4.8	23.1	0.53	2.55
9.0-10.0	295.9	5.4	28.4	0.59	3.14
10.0-11.0	294.9	5.9	34.3	0.65	3.79
11.0-12.0	293.8	6.4	40.8	0.71	4.49
12.0-13.0	292.5	6.9	47.7	0.77	5.26
13.0-14.0	291.2	7.5	55.2	0.82	6.08
14.0-15.0	289.8	8.0	63.1	0.88	6.96
15.0-16.0	288.3	8.4	71.6	0.93	7.89
16.0-17.0	286.7	8.9	80.5	0.98	8.88
17.0-18.0	285.0	9.4	89.9	1.04	9.91
18.0-19.0	283.3	9.9	99.7	1.09	11.00
19.0-20.0	281.4	10.3	110.0	1.14	12.14
20.0-21.0	279.5	10.7	120.8	1.18	13.32
21.0-22.0	277.4	11.1	131.9	1.23	14.55
22.0-23.0	275.3	11.6	143.5	1.27	15.82
23.0-24.0	273.1	11.9	155.4	1.32	17.14
24.0-25.0	270.7	12.3	167.7	1.36	18.50
25.0-26.0	268.4	12.7	180.4	1.40	19.89
26.0-27.0	265.9	13.0	193.4	1.43	21.33
27.0-28.0	263.3	13.3	206.7	1.47	22.80
28.0-29.0	260.7	13.6	220.4	1.50	24.30
29.0-30.0	258.0	13.9	234.3	1.54	25.84
30.0-31.0	255.2	14.2	248.5	1.57	27.41
31.0-32.0	252.3	14.5	263.0	1.59	29.00
32.0-33.0	249.2	14.7	277.7	1.62	30.62
33.0-34.0	246.3	14.9	292.6	1.64	32.26
34.0-35.0	243.1	15.1	307.7	1.67	33.93
35.0-36.0	239.9	15.3	322.9	1.68	35.61
36.0-37.0	236.6	15.4	338.4	1.70	37.31
37.0-38.0	233.2	15.6	353.9	1.72	39.03
38.0-39.0	229.8	15.7	369.6	1.73	40.76
39.0-40.0	226.2	15.8	385.4	1.74	42.50

Zonal Flux

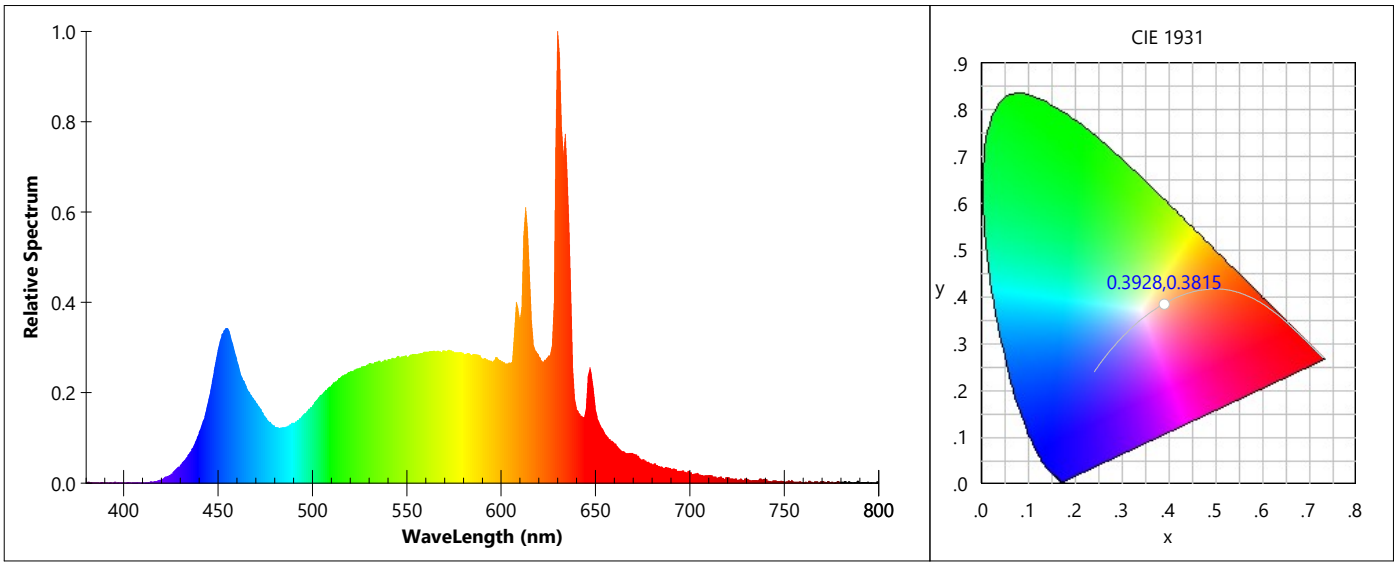
Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	222.6	15.9	401.3	1.75	44.25
41.0-42.0	219.1	15.9	417.2	1.76	46.00
42.0-43.0	215.3	16.0	433.1	1.76	47.76
43.0-44.0	211.5	16.0	449.1	1.76	49.52
44.0-45.0	207.7	16.0	465.1	1.76	51.28
45.0-46.0	203.7	15.9	481.0	1.76	53.04
46.0-47.0	199.7	15.9	496.9	1.75	54.79
47.0-48.0	195.6	15.8	512.7	1.74	56.54
48.0-49.0	191.4	15.7	528.4	1.73	58.27
49.0-50.0	187.4	15.6	544.0	1.72	59.99
50.0-51.0	183.1	15.5	559.5	1.71	61.70
51.0-52.0	178.7	15.3	574.9	1.69	63.39
52.0-53.0	174.4	15.2	590.0	1.67	65.07
53.0-54.0	169.9	15.0	605.0	1.65	66.72
54.0-55.0	165.5	14.8	619.8	1.63	68.35
55.0-56.0	160.9	14.5	634.3	1.60	69.95
56.0-57.0	156.2	14.3	648.6	1.58	71.53
57.0-58.0	151.8	14.0	662.7	1.55	73.08
58.0-59.0	147.0	13.7	676.4	1.52	74.59
59.0-60.0	142.3	13.4	689.9	1.48	76.07
60.0-61.0	137.5	13.1	703.0	1.45	77.52
61.0-62.0	132.6	12.8	715.8	1.41	78.93
62.0-63.0	127.9	12.4	728.2	1.37	80.30
63.0-64.0	123.0	12.1	740.3	1.33	81.63
64.0-65.0	118.0	11.7	751.9	1.29	82.92
65.0-66.0	113.2	11.3	763.2	1.25	84.17
66.0-67.0	108.2	10.9	774.1	1.20	85.37
67.0-68.0	103.3	10.5	784.6	1.15	86.52
68.0-69.0	98.4	10.0	794.6	1.11	87.63
69.0-70.0	93.5	9.6	804.2	1.06	88.69
70.0-71.0	88.7	9.2	813.4	1.01	89.70
71.0-72.0	83.8	8.7	822.1	0.96	90.66
72.0-73.0	78.9	8.3	830.4	0.91	91.57
73.0-74.0	74.3	7.8	838.2	0.86	92.43
74.0-75.0	69.6	7.3	845.5	0.81	93.24
75.0-76.0	65.0	6.9	852.4	0.76	94.00
76.0-77.0	60.4	6.4	858.9	0.71	94.72
77.0-78.0	56.0	6.0	864.9	0.66	95.38
78.0-79.0	51.9	5.6	870.5	0.61	95.99
79.0-80.0	47.7	5.1	875.6	0.57	96.56

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Zonal Flux

Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
80.0-81.0	43.6	4.7	880.3	0.52	97.08
81.0-82.0	39.8	4.3	884.6	0.48	97.56
82.0-83.0	36.1	3.9	888.6	0.43	97.99
83.0-84.0	32.6	3.6	892.1	0.39	98.38
84.0-85.0	29.4	3.2	895.3	0.35	98.73
85.0-86.0	26.3	2.9	898.2	0.32	99.05
86.0-87.0	23.5	2.6	900.8	0.28	99.33
87.0-88.0	20.8	2.3	903.0	0.25	99.58
88.0-89.0	18.3	2.0	905.1	0.22	99.81
89.0-90.0	16.0	1.8	906.8	0.19	100.00

Color Properties



Colorimetric

CIE(x,y): 0.3928,0.3815
CIE(u,v): 0.2313,0.3370
CIE(u',v'): 0.2313,0.5055
CCT: 3716 K (Duv=-0.001161)
Dominant Wavelength: 580.7 nm
Color Purity: 0.324
Peak Wavelength: 630.3 nm
Half Width: 8.0 nm
Color Ratio: R:0.221, G:0.741, B:0.038
Luminous Flux: 906.82 lm
Radiant Power: 2.750 W

Color Render Index: Ra: 97.0

R1: 99	R2: 98	R3: 94	R4: 99	R5: 98	R6: 96	R7: 97	R8: 95
R9: 86	R10: 93	R11: 98	R12: 75	R13: 100	R14: 95	R15: 98	

Color Quality Scale: Qa: 94.9 , Qf: 93.6 , Qp: 97.4 , Qg: 102.5

Q1: 95	Q2: 96	Q3: 89	Q4: 90	Q5: 95	Q6: 98	Q7: 95	Q8: 98
Q9: 96	Q10: 96	Q11: 97	Q12: 99	Q13: 99	Q14: 97	Q15: 97	

TM-30-18: Rf: 91 , Rg: 100

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Color Distribution Data

Evaluation of Spatial non-uniformity of chromaticity

IESNA LM-79: Spatially Averaged Chromaticity (u',v'): 0.2308, 0.5052
Spatially Averaged Chromaticity (CCT): 3737K
Spatial non-uniformity of chromaticity Δu'v'(Δu',Δv') : 0.004109 (-0.0031,-0.0027)
CIE S025: Spatially Averaged Chromaticity (u',v'): 0.2309, 0.5050
Spatially Averaged Chromaticity (CCT): 3737K
Angular Colour Uniformity Δu'v'(Δu',Δv') : 0.004242 (0.0014,0.0040)
GB/T 24824: Spatially Averaged Chromaticity (u',v'): 0.2308, 0.5052
Average Color Nonuniformity Δu'v'(Δu',Δv') :0.001271 (-0.0003,-0.0012)
Maximum Color Nonuniformity Δu'v'(Δu',Δv') :0.005184 (-0.0034,-0.0039)

Color Distribution Data (u',v') Average Color(u',v'):(0.2308,0.5052)

G\C	0.0	30.0	60.0	90.0
0.0	0.2311,0.5062	0.2319,0.5081	----	----
15.0	0.2319,0.5081	----	----	0.2310,0.5059
30.0	----	----	0.2310,0.5059	0.2318,0.5081
45.0	----	0.2310,0.5059	0.2318,0.5081	----

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Color Distribution Data

Color Distribution Data (u',v') Average Color(u',v'):(0.2308,0.5052)

G\C	120.0	150.0	180.0	210.0
0.0	0.2310,0.5059	0.2318,0.5081	----	----
15.0	0.2318,0.5081	----	----	0.2311,0.5069
30.0	----	----	0.2311,0.5069	0.2316,0.5078
45.0	----	0.2311,0.5069	0.2316,0.5078	----

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Color Distribution Data

Color Distribution Data (u',v') Average Color(u',v'):(0.2308,0.5052)

G\C	240.0	270.0	300.0	330.0
0.0	0.2311,0.5069	0.2316,0.5078	----	----
15.0	0.2316,0.5078	----	----	0.2310,0.5059
30.0	----	----	0.2310,0.5059	0.2316,0.5079
45.0	----	0.2310,0.5059	0.2316,0.5079	----

Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :