Product Info

Luminaire Category : **LED**
Luminaire : **20981LEDDCS**
Manufacturer : Number of
Lamps : **1** Luminous Lumens per Lamp : **1000 lm**
Length : **100 mm** Luminous Width : **100 mm** Luminous Height : **0 mm**

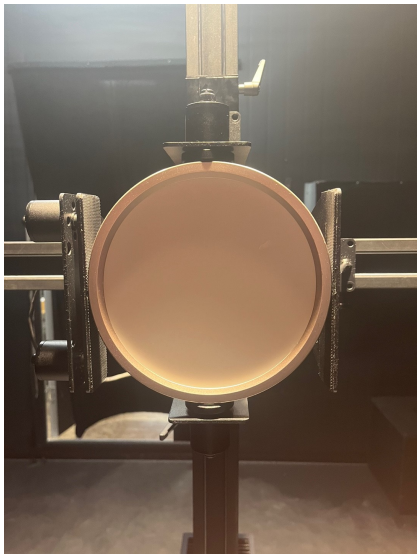
Electric Parameters

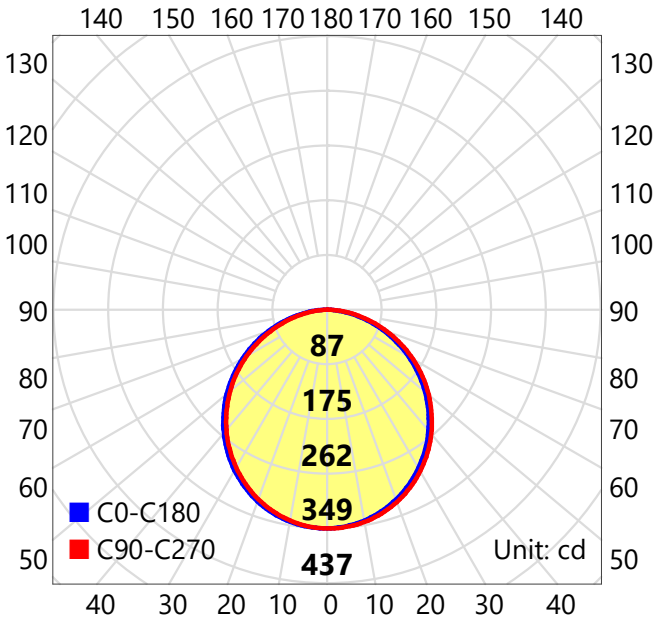
Voltage : **119.50 V** Current : **0.1350 A** Power : **14.83 W** Power Factor : **0.920** Frequency : **60.15 Hz**

Photometric Parameters

CIE Class : **Direct**
Measurement Flux : **999.6 lm**
Upward Ratio : **0.00 %**
Maximum Intensity : **349.37 cd**
Central Intensity : **349.21 cd**
Luminaire Efficacy Rating (LER) : **67**
Conical Flux (90°) : **532.98 lm (53.3%)**
Beam Angle (C0-C180,C90-C270) : **112.2 °, 112.4 °**
Field Angle (C0-C180,C90-C270) : **162.7 °, 162.7 °**

Total Rated Lamp Lumens : **999.6 lm**
Efficiency : **100.00 %**
Downward Ratio : **100.00 %**
Position Of Maximum Intensity : **C90° γ2°**
S/MH(C0-C180,C90-C270) : **1.25, 1.25**
Energy Efficiency Class : **G (EU 2019/2015 ηTM:67lm/W)**
Conical Flux (120°) : **783.34 lm (78.4%)**
Beam Angle (C45-C225,C135-C315) : **112.4 °, 112.4 °**
Field Angle (C45-C225,C135-C315) : **162.7 °, 162.6 °**

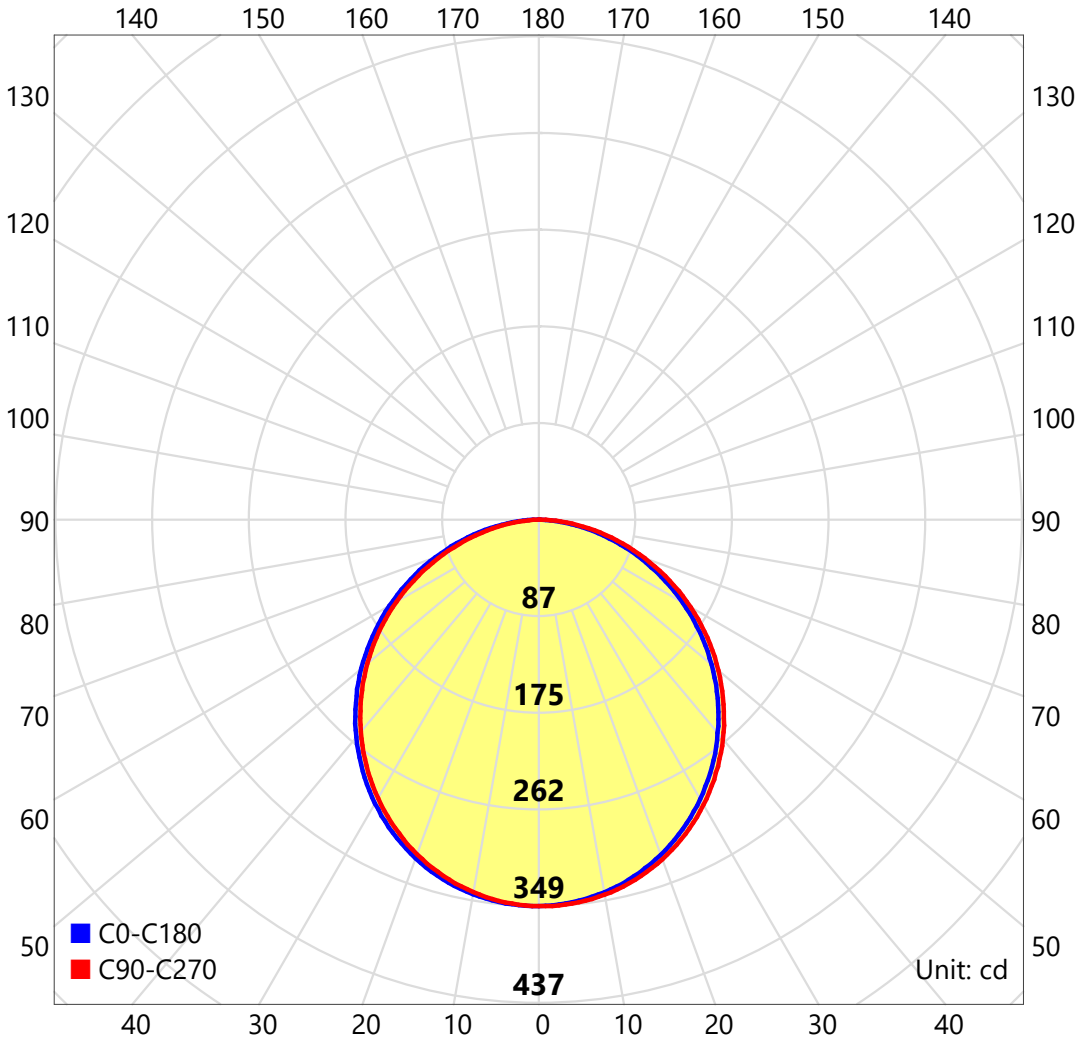


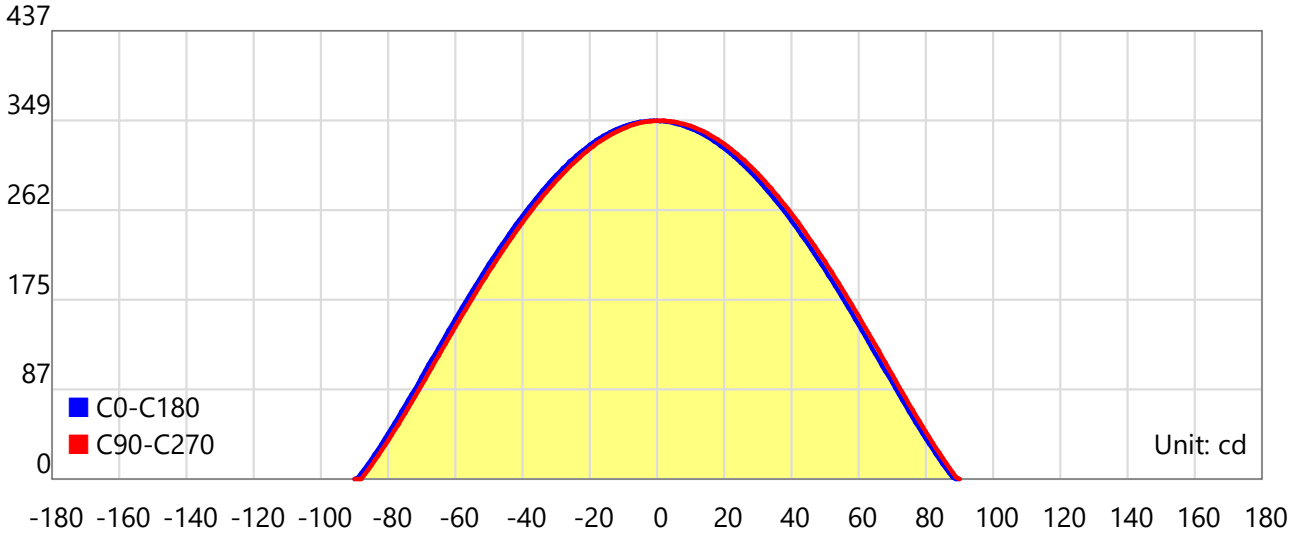


Average Beam Angle (50%): 112.4°

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 :

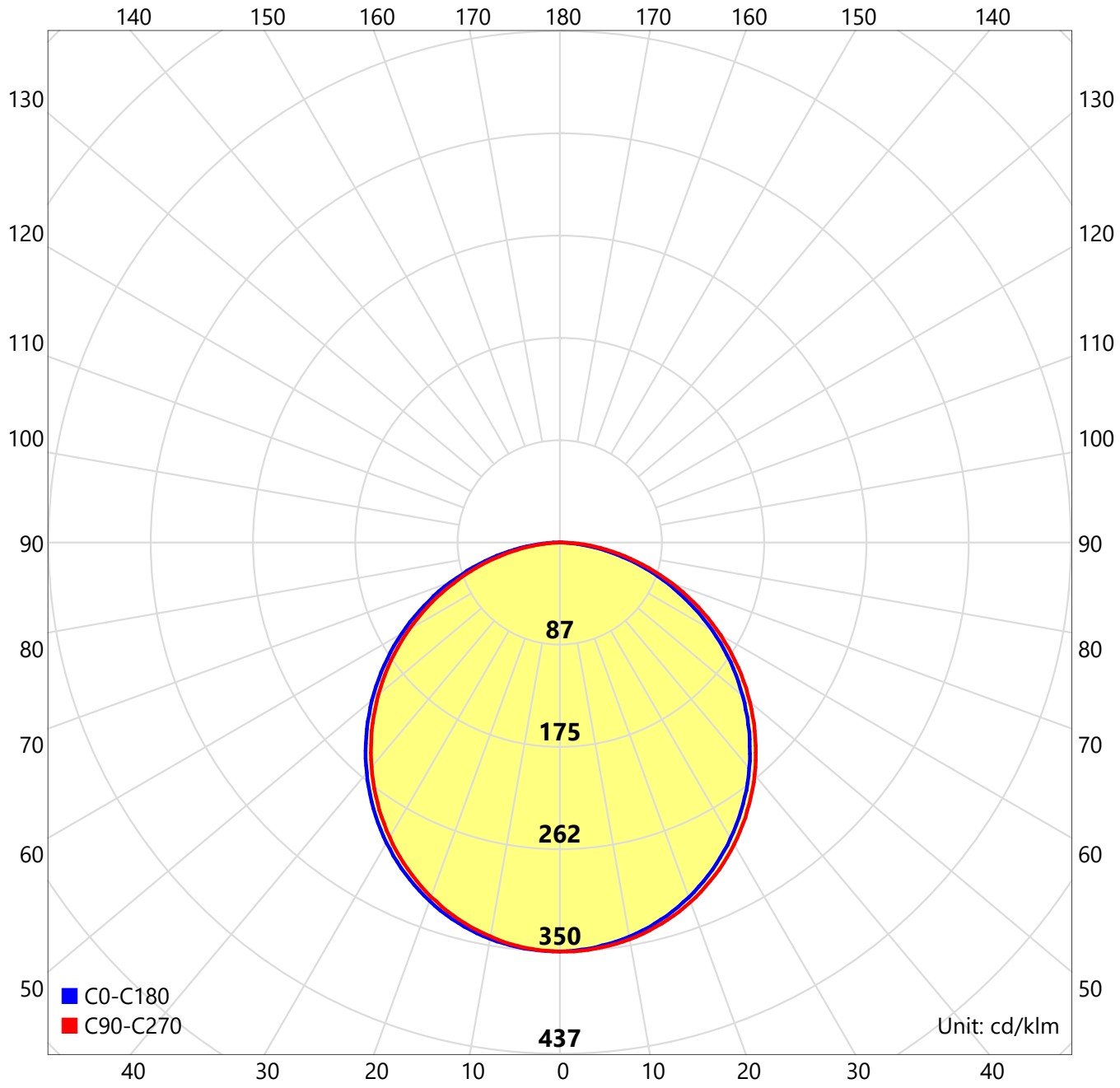
Light Distribution Curve





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

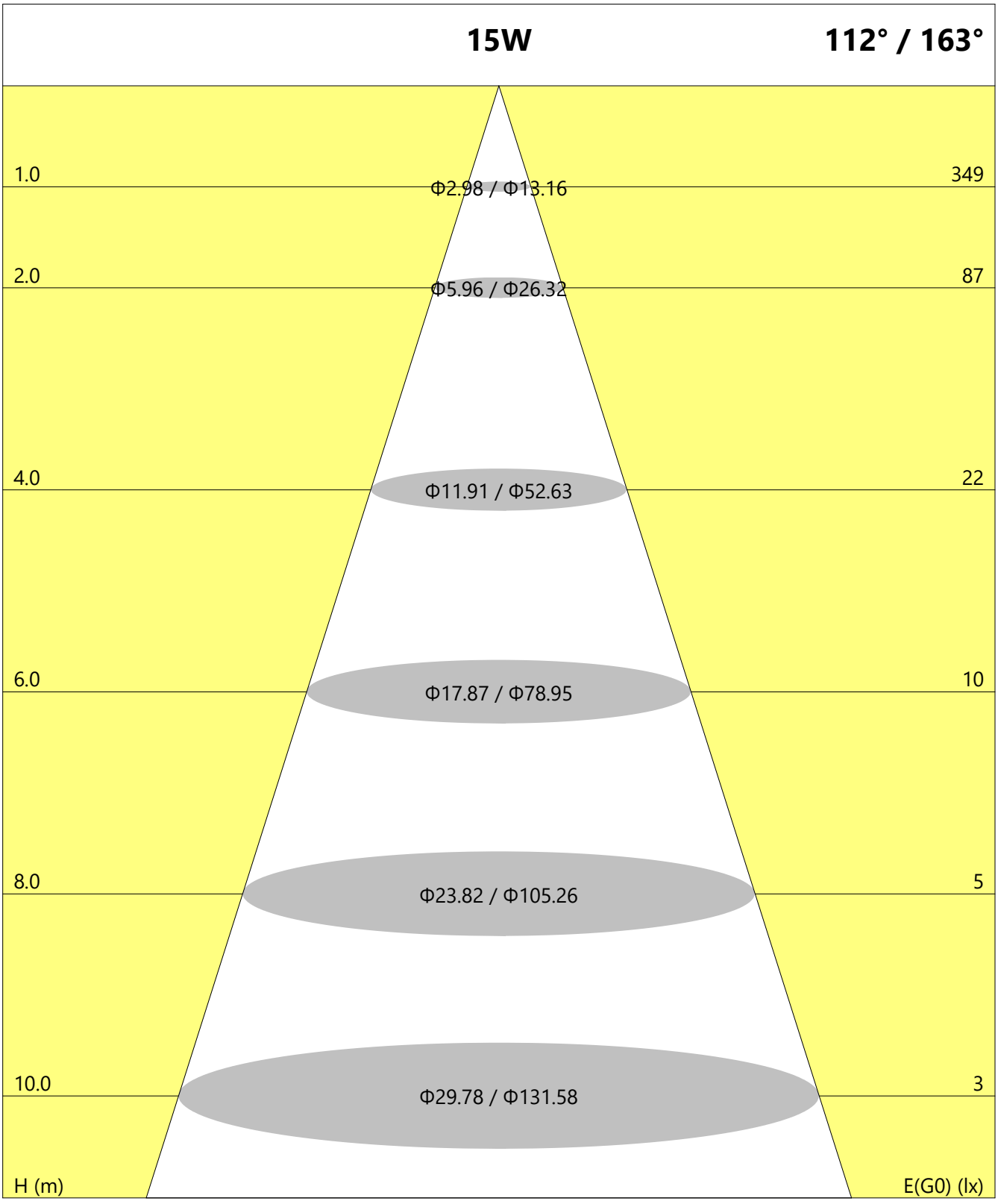
Reflectance											
Ceiling (cavity)		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	24.1	25.7	24.4	26.0	26.3	24.4	26.0	24.7	26.3	26.6
	3H	25.9	27.4	26.3	27.7	28.1	26.3	27.7	26.6	28.1	28.4
	4H	26.6	28.0	27.0	28.3	28.7	27.0	28.4	27.4	28.7	29.1
	6H	27.1	28.4	27.5	28.7	29.1	27.6	28.9	28.0	29.2	29.6
	8H	27.2	28.5	27.6	28.8	29.2	27.8	29.0	28.2	29.4	29.8
	12H	27.3	28.5	27.7	28.9	29.3	27.9	29.1	28.3	29.5	29.9
X=4H	Y=2H	24.7	26.1	25.1	26.5	26.8	25.0	26.4	25.4	26.8	27.1
	3H	26.8	27.9	27.2	28.3	28.7	27.1	28.3	27.5	28.7	29.1
	4H	27.6	28.6	28.0	29.0	29.5	28.0	29.1	28.4	29.5	29.9
	6H	28.2	29.1	28.6	29.6	30.0	28.7	29.6	29.2	30.1	30.5
	8H	28.4	29.3	28.9	29.7	30.2	29.0	29.8	29.4	30.3	30.7
	12H	28.5	29.3	29.0	29.8	30.2	29.2	29.9	29.6	30.4	30.9
X=8H	Y=4H	27.9	28.8	28.4	29.2	29.7	28.3	29.2	28.8	29.7	30.1
	6H	28.6	29.4	29.1	29.9	30.3	29.2	29.9	29.7	30.4	30.9
	8H	28.9	29.6	29.4	30.1	30.6	29.5	30.2	30.0	30.7	31.2
	12H	29.1	29.7	29.6	30.2	30.7	29.8	30.4	30.3	30.9	31.4
X=12H	Y=4H	27.9	28.7	28.4	29.2	29.7	28.4	29.2	28.9	29.6	30.1
	6H	28.7	29.4	29.2	29.8	30.4	29.3	29.9	29.8	30.4	30.9
	8H	29.0	29.6	29.5	30.1	30.7	29.6	30.2	30.1	30.7	31.3

Calculate in accordance with CIE 190:2010. The table is corrected with 1000lm (8log(F/F0) = -0.0).

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	24.5	25.9	24.8	26.2	26.4	24.6	26.0	24.9	26.2	26.5
	3H	26.1	27.4	26.4	27.6	27.9	26.2	27.5	26.5	27.7	28.0
	4H	26.7	27.9	27.1	28.2	28.5	26.8	28.0	27.2	28.3	28.6
	6H	27.2	28.3	27.5	28.6	28.9	27.3	28.4	27.7	28.8	29.1
	8H	27.3	28.4	27.7	28.7	29.1	27.5	28.6	27.9	28.9	29.2
	12H	27.4	28.4	27.8	28.8	29.1	27.6	28.6	28.0	29.0	29.3
X=4H	Y=2H	25.2	26.4	25.6	26.7	27.0	25.3	26.5	25.6	26.8	27.1
	3H	27.0	28.0	27.4	28.3	28.7	27.1	28.1	27.4	28.4	28.8
	4H	27.7	28.7	28.1	29.0	29.4	27.8	28.8	28.2	29.1	29.5
	6H	28.3	29.1	28.7	29.5	29.9	28.4	29.3	28.9	29.7	30.1
	8H	28.5	29.3	29.0	29.7	30.1	28.7	29.4	29.1	29.8	30.2
	12H	28.6	29.3	29.1	29.7	30.2	28.8	29.5	29.3	29.9	30.4
X=8H	Y=4H	28.1	28.8	28.5	29.2	29.6	28.1	28.9	28.6	29.3	29.7
	6H	28.8	29.4	29.3	29.8	30.3	28.9	29.5	29.4	29.9	30.4
	8H	29.1	29.6	29.5	30.1	30.5	29.2	29.7	29.7	30.2	30.7
	12H	29.2	29.7	29.7	30.2	30.7	29.4	29.9	29.9	30.3	30.9
X=12H	Y=4H	28.1	28.8	28.5	29.2	29.6	28.2	28.8	28.6	29.3	29.7
	6H	28.9	29.4	29.3	29.9	30.3	29.0	29.5	29.4	30.0	30.4
	8H	29.2	29.6	29.7	30.1	30.6	29.3	29.8	29.8	30.2	30.7
Variations with the observer position at spacings											
S=1.0H		+0.2/-0.2					+0.2/-0.2				
S=1.5H		+0.4/-0.5					+0.4/-0.5				
S=2.0H		+0.5/-0.9					+0.5/-0.9				

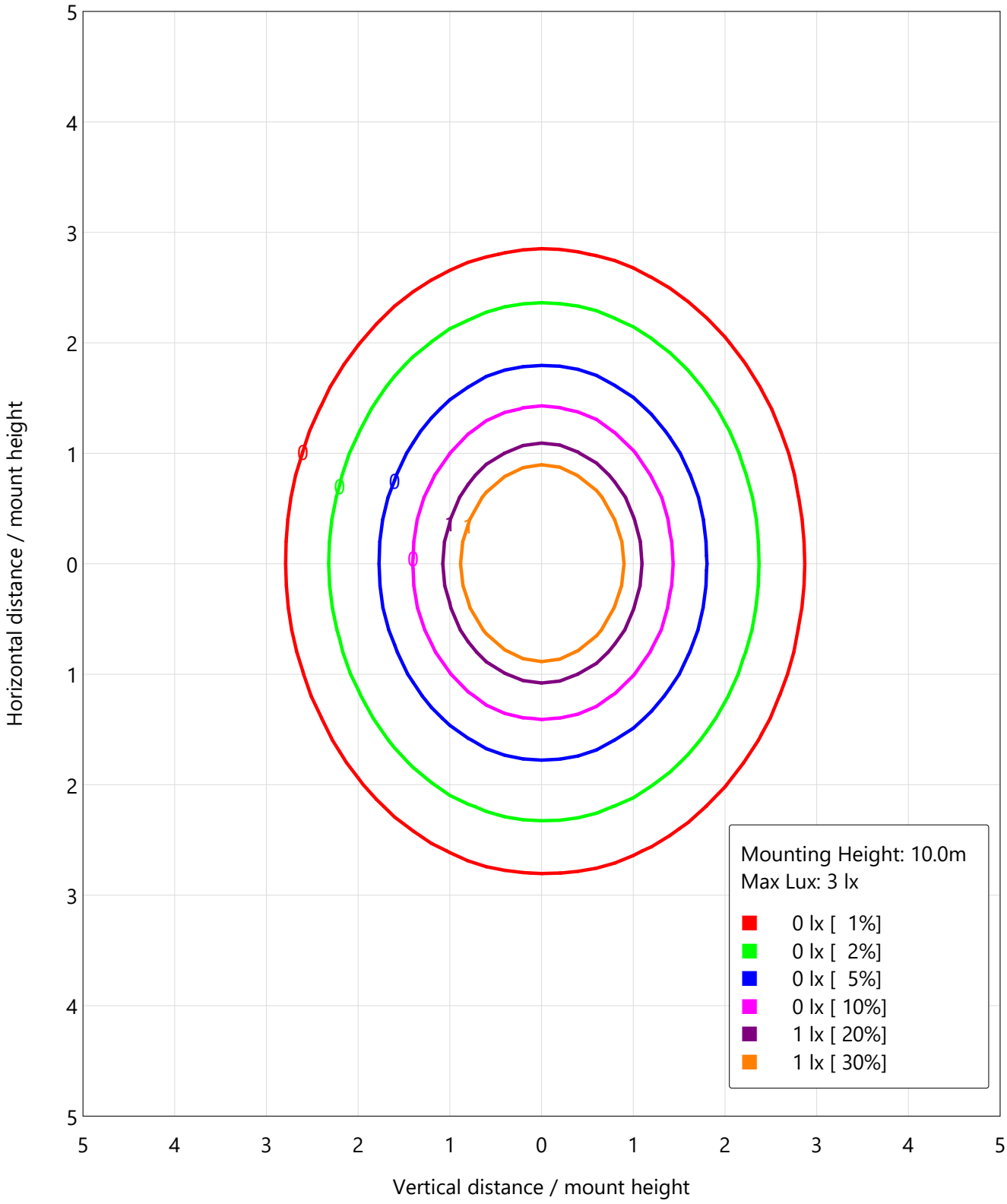
Calculate in accordance with CIE Pub.117. The table is corrected with 1000lm (8log(F/F0) = -0.0).

Lux-Distance



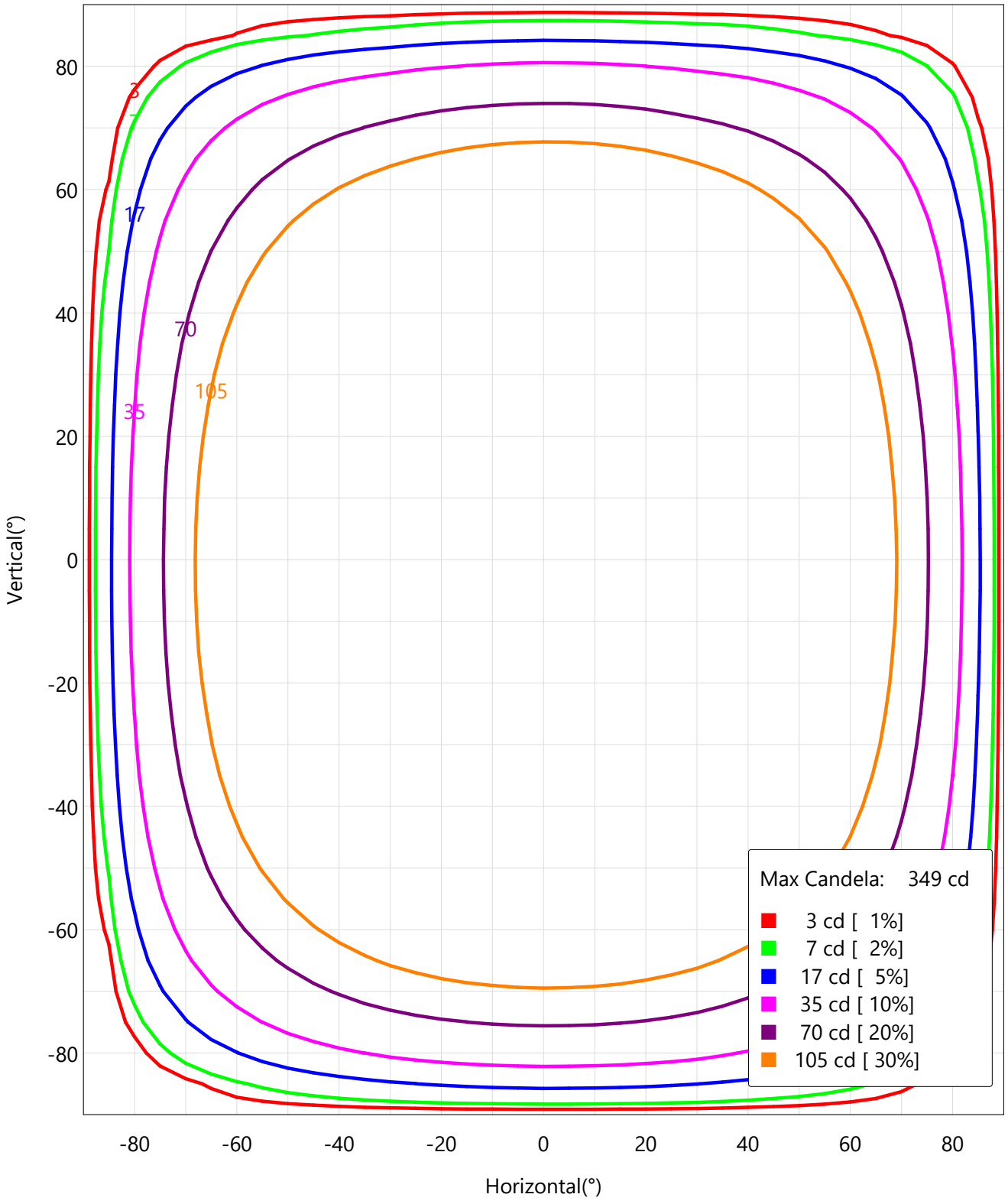
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

IsoLux



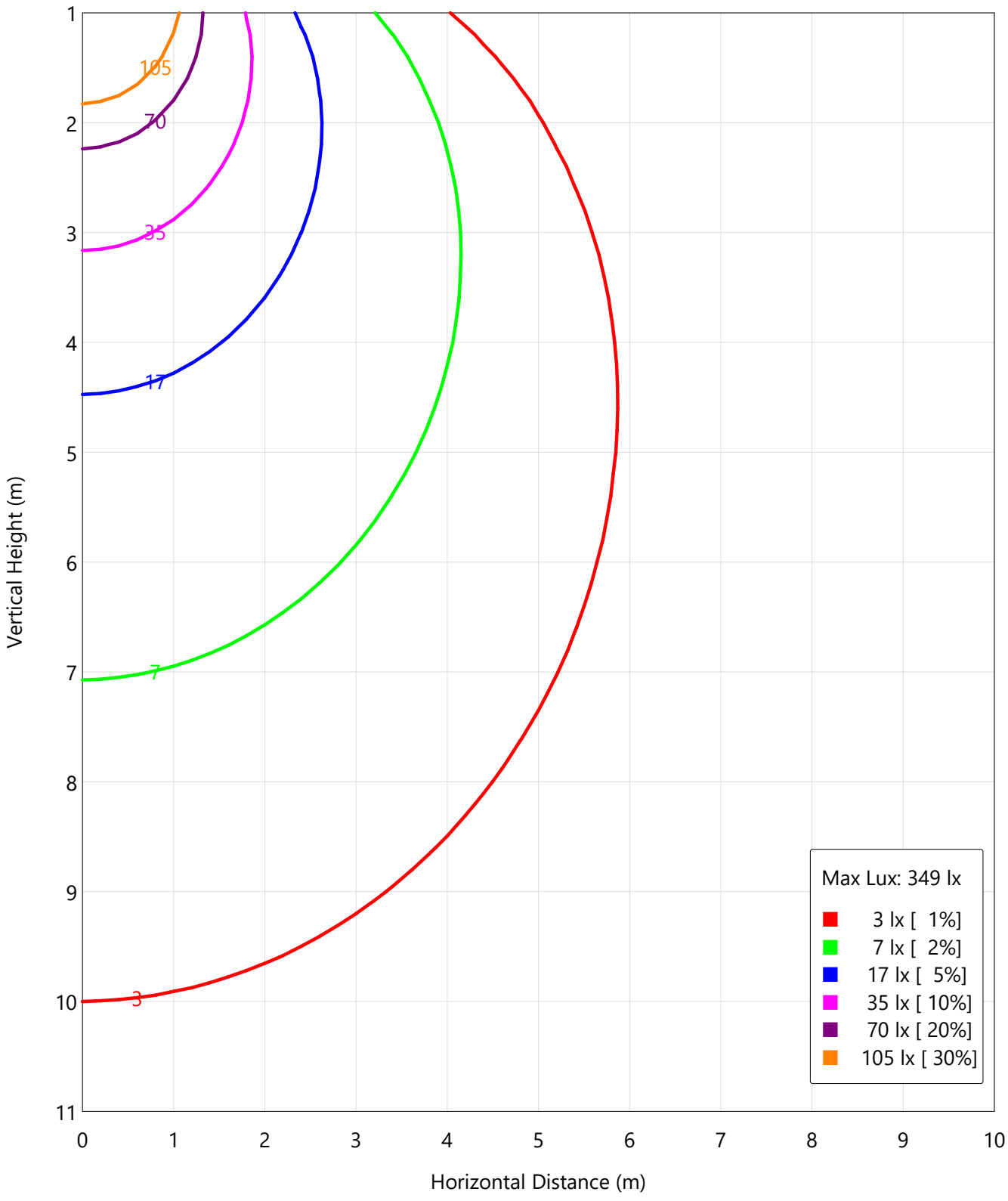
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

IsoCandela



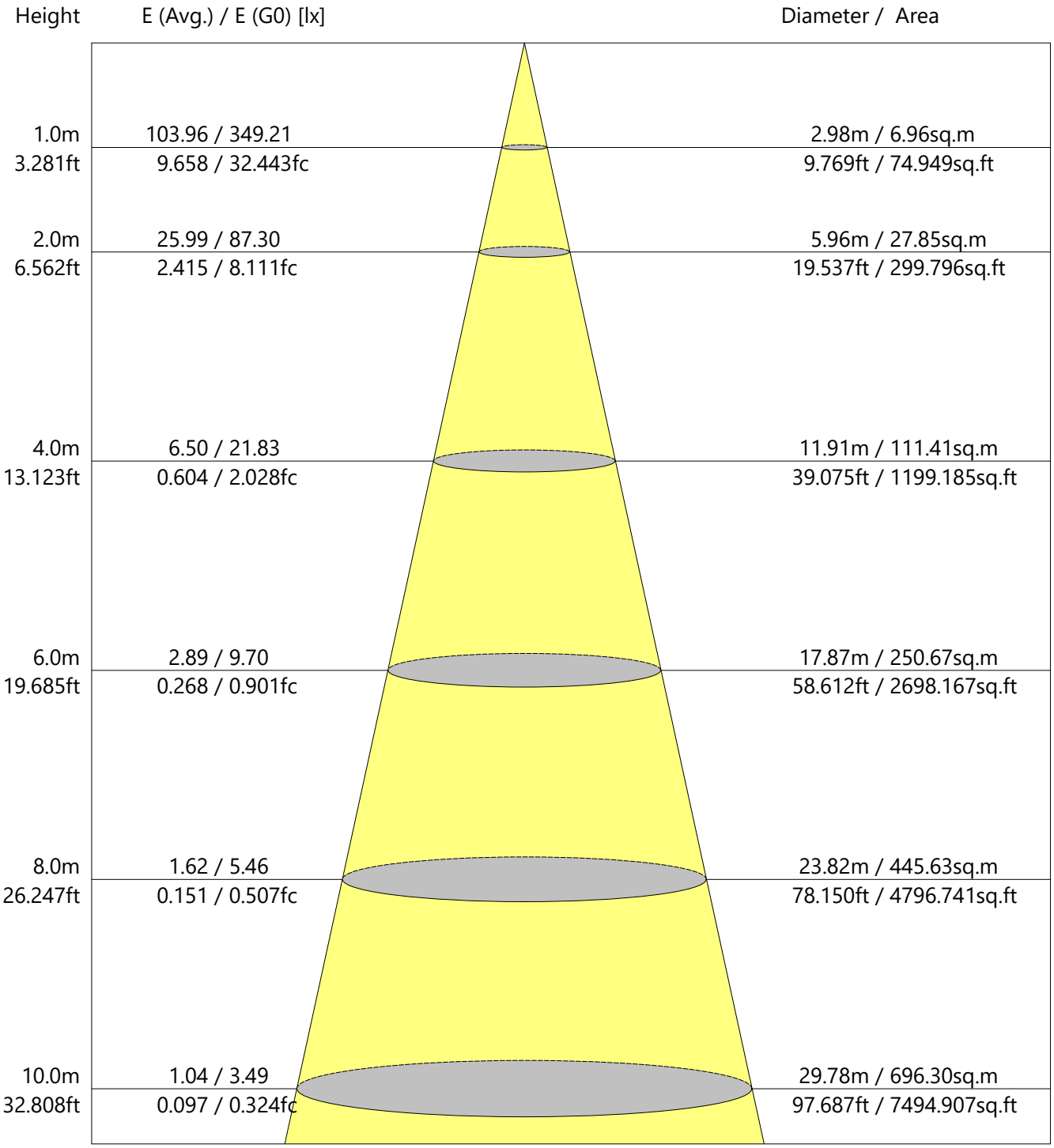
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

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



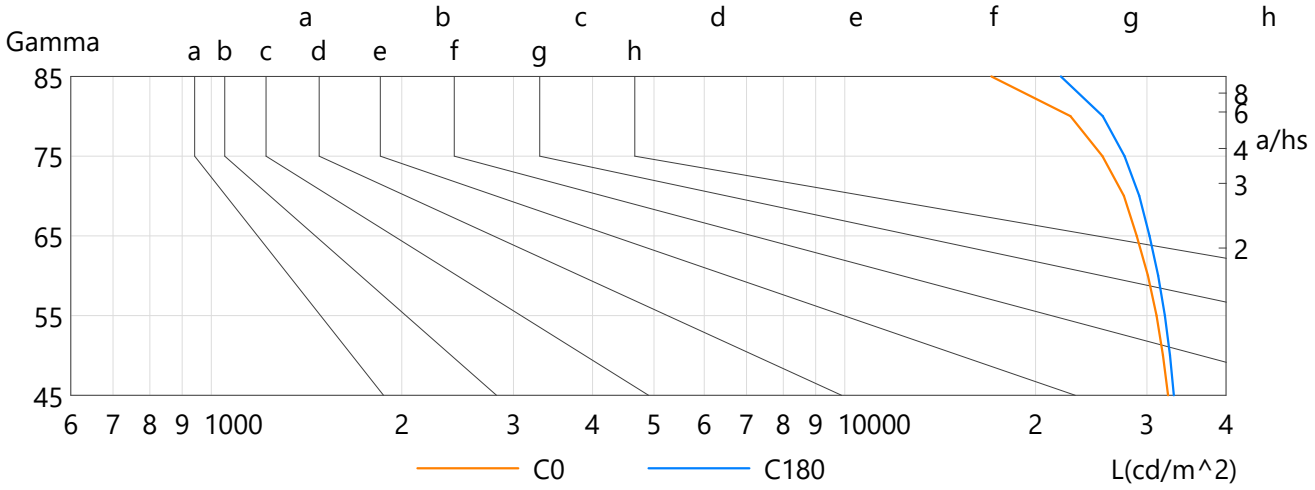
Beam Angle: 112.2° Flux Out: 723.88lm

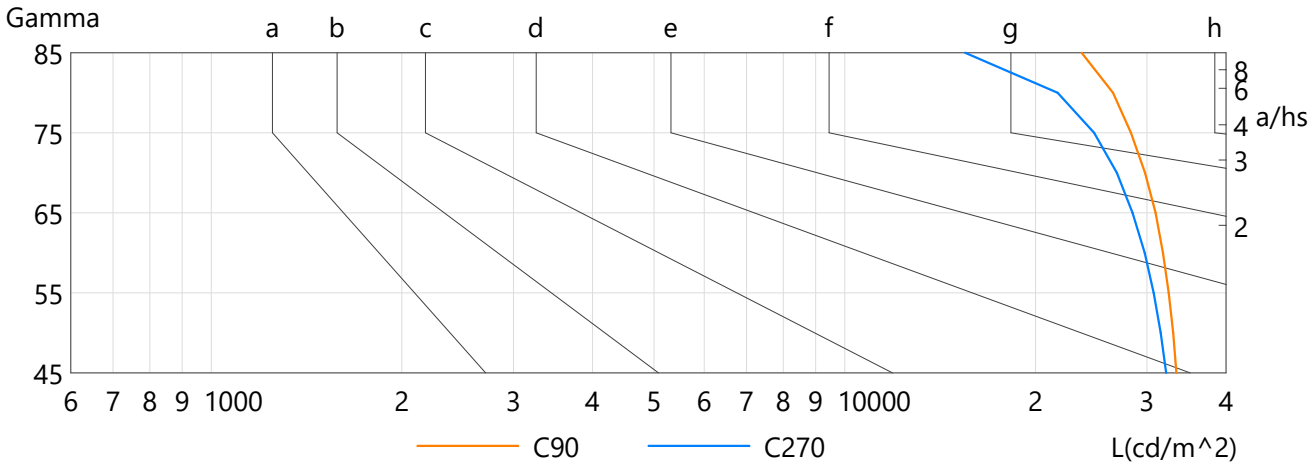
Test Type : Type C Test Distance : 12.994 m C Plane (°): 0.0-360.0:30.0 γ (°) : 0.0-90.0:1.0
Test Device : Lisun LSG-1800A Temperature : 25.0°C Humidity : 65.0%
Test Lab :
Test By : 장진혁 Review By :

Luminance Limit Curve

L (cd/m^2)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	32392	31772	31053	30112	28884	27593	25510	22715	17039
C90	33392	33006	32459	31775	30937	29789	28284	26528	23647
C180	33069	32615	32001	31228	30272	29183	27643	25554	21928
C270	32154	31534	30720	29752	28453	26873	24768	21673	15485

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	0.56	0.67	0.74	0.79	0.87	0.92	0.96	1.00	1.03
	0.30		0.48	0.59	0.67	0.72	0.81	0.86	0.90	0.96	1.00
	0.20		0.42	0.53	0.61	0.67	0.75	0.81	0.86	0.92	0.96
0.50	0.50	0.20	0.55	0.65	0.72	0.77	0.84	0.88	0.92	0.96	0.99
	0.30		0.47	0.58	0.65	0.71	0.78	0.84	0.87	0.93	0.96
	0.20		0.42	0.52	0.60	0.66	0.74	0.80	0.84	0.90	0.93
0.30	0.50	0.20	0.53	0.63	0.69	0.74	0.81	0.85	0.88	0.92	0.95
	0.30		0.47	0.57	0.64	0.69	0.76	0.81	0.85	0.90	0.93
	0.20		0.42	0.52	0.59	0.65	0.72	0.78	0.82	0.87	0.90
0.00	0.00	0.00	0.40	0.49	0.56	0.62	0.69	0.74	0.78	0.83	0.86

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	1.01	0.83	0.71	0.62	0.49	0.41	0.35	0.27	0.22
	0.30		0.84	0.71	0.62	0.55	0.45	0.38	0.33	0.26	0.21
	0.20		0.72	0.62	0.55	0.49	0.41	0.35	0.30	0.24	0.20
0.50	0.50	0.20	0.97	0.80	0.68	0.59	0.47	0.43	0.34	0.26	0.21
	0.30		0.82	0.69	0.60	0.53	0.43	0.36	0.31	0.25	0.20
	0.20		0.71	0.61	0.54	0.48	0.40	0.34	0.29	0.23	0.19
0.30	0.50	0.20	0.95	0.77	0.66	0.57	0.45	0.37	0.32	0.25	0.20
	0.30		0.81	0.68	0.59	0.52	0.42	0.35	0.30	0.24	0.20
	0.20		0.71	0.61	0.53	0.47	0.39	0.33	0.29	0.23	0.19
0.00	0.00	0.00	0.61	0.51	0.44	0.39	0.31	0.26	0.23	0.18	0.15

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	0.16	0.18	0.19	0.19	0.20	0.21	0.21	0.22	0.22
	0.30		0.09	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.19
	0.20		0.05	0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17
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		0.09	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	0.13	0.15	0.16
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		0.09	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	0.11	0.12	0.13	0.15	0.16
0.00	0.00	0.00	NA	NA	NA	NA	NA	NA	NA	NA	NA

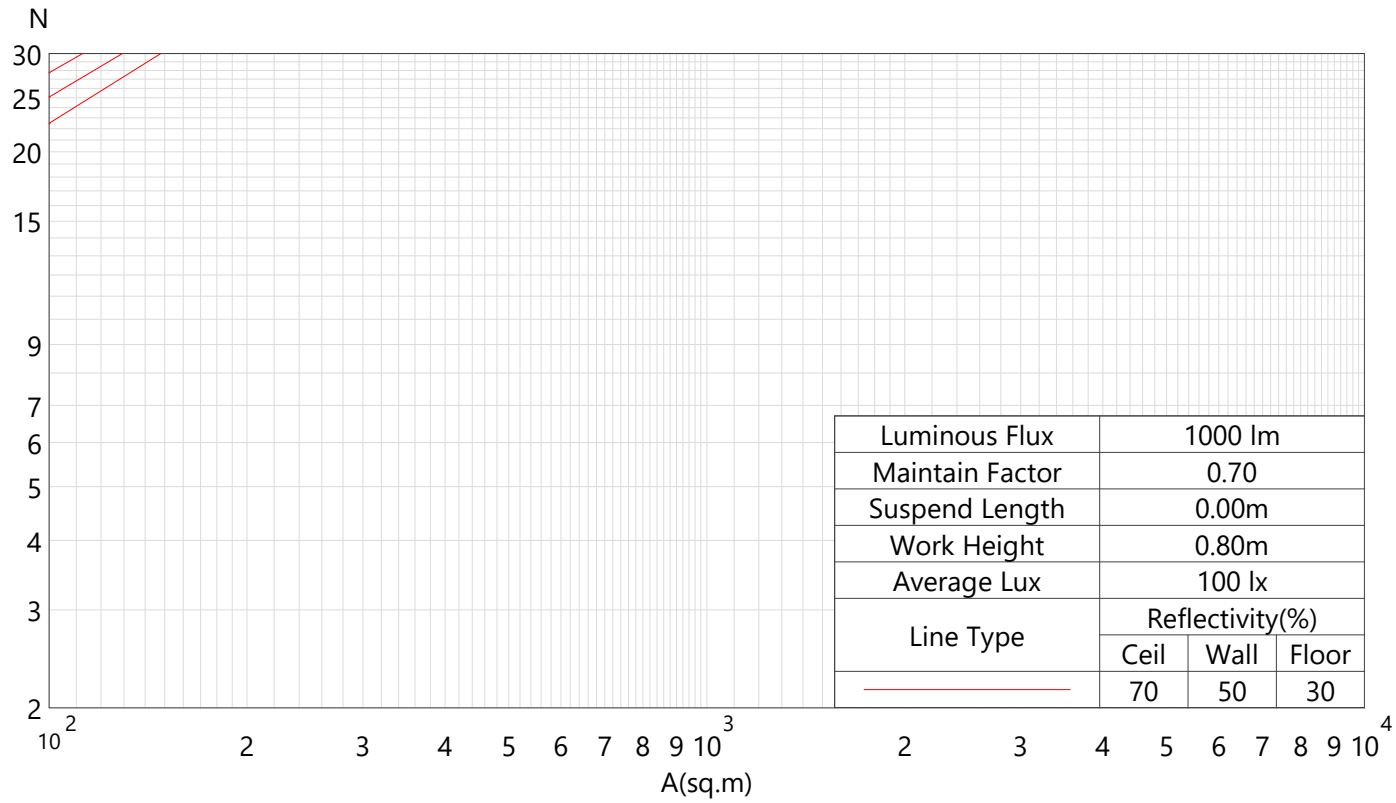
Rating: 15W Photometrically tested without ceiling board.
Multiply UF values by service correction factors
Calculate in accordance with CIBSE Technical Memorandum No.5/1980

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	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Spacing Criteria: 1.25 (0-180), 1.25 (90-270), 1.37 (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	349.2	0.3	0.3	0.03	0.03
1.0-2.0	349.0	1.0	1.3	0.10	0.13
2.0-3.0	348.8	1.7	3.0	0.17	0.30
3.0-4.0	348.4	2.3	5.3	0.23	0.53
4.0-5.0	347.9	3.0	8.3	0.30	0.83
5.0-6.0	347.3	3.7	12.0	0.37	1.20
6.0-7.0	346.5	4.3	16.3	0.43	1.63
7.0-8.0	345.6	4.9	21.2	0.49	2.12
8.0-9.0	344.6	5.6	26.8	0.56	2.68
9.0-10.0	343.5	6.2	33.0	0.62	3.30
10.0-11.0	342.2	6.8	39.9	0.68	3.99
11.0-12.0	340.8	7.5	47.3	0.75	4.73
12.0-13.0	339.3	8.1	55.4	0.81	5.54
13.0-14.0	337.7	8.6	64.0	0.86	6.40
14.0-15.0	335.9	9.2	73.2	0.92	7.33
15.0-16.0	334.0	9.8	83.0	0.98	8.31
16.0-17.0	332.0	10.3	93.4	1.03	9.34
17.0-18.0	330.0	10.9	104.3	1.09	10.43
18.0-19.0	327.7	11.4	115.7	1.14	11.57
19.0-20.0	325.3	11.9	127.6	1.19	12.76
20.0-21.0	322.9	12.4	140.0	1.24	14.00
21.0-22.0	320.3	12.9	152.8	1.29	15.29
22.0-23.0	317.6	13.3	166.2	1.33	16.62
23.0-24.0	314.9	13.8	179.9	1.38	18.00
24.0-25.0	311.9	14.2	194.1	1.42	19.42
25.0-26.0	309.0	14.6	208.7	1.46	20.88
26.0-27.0	305.9	15.0	223.7	1.50	22.38
27.0-28.0	302.6	15.3	239.0	1.53	23.91
28.0-29.0	299.4	15.7	254.7	1.57	25.48
29.0-30.0	296.0	16.0	270.7	1.60	27.08
30.0-31.0	292.4	16.3	286.9	1.63	28.70
31.0-32.0	288.8	16.5	303.5	1.66	30.36
32.0-33.0	285.1	16.8	320.3	1.68	32.04
33.0-34.0	281.4	17.0	337.3	1.70	33.74
34.0-35.0	277.4	17.2	354.5	1.72	35.47
35.0-36.0	273.4	17.4	371.9	1.74	37.21
36.0-37.0	269.4	17.6	389.5	1.76	38.97
37.0-38.0	265.3	17.7	407.2	1.77	40.74
38.0-39.0	261.1	17.8	425.1	1.78	42.52
39.0-40.0	256.7	17.9	443.0	1.79	44.31

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

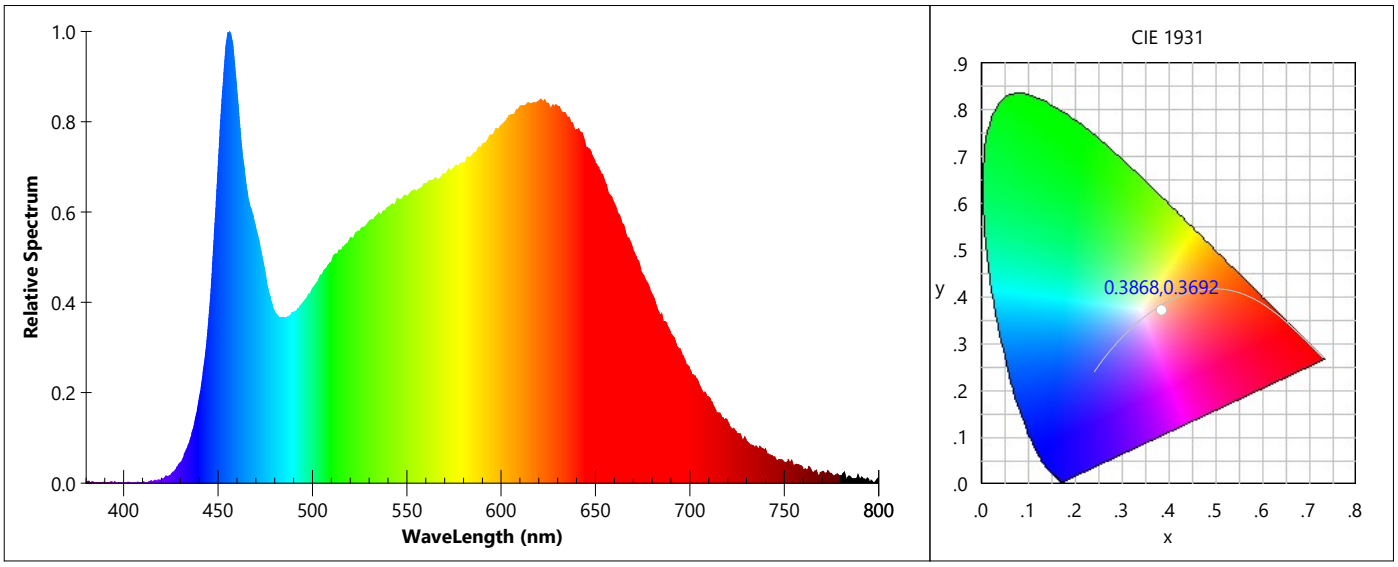
Gamma °	Imean cd	Zonal Flux lm	Sum Zonal Flux lm	Rel Zonal Flux %	Sum Rel Zonal Flux %
40.0-41.0	252.3	18.0	460.9	1.80	46.11
41.0-42.0	247.9	18.0	478.9	1.80	47.91
42.0-43.0	243.3	18.0	497.0	1.80	49.72
43.0-44.0	238.7	18.0	515.0	1.80	51.52
44.0-45.0	234.0	18.0	533.0	1.80	53.32
45.0-46.0	229.2	17.9	550.9	1.79	55.11
46.0-47.0	224.5	17.9	568.8	1.79	56.90
47.0-48.0	219.6	17.8	586.5	1.78	58.68
48.0-49.0	214.5	17.6	604.1	1.76	60.44
49.0-50.0	209.7	17.5	621.6	1.75	62.19
50.0-51.0	204.6	17.3	638.9	1.73	63.92
51.0-52.0	199.4	17.1	656.0	1.71	65.63
52.0-53.0	194.2	16.9	672.9	1.69	67.32
53.0-54.0	188.9	16.7	689.6	1.67	68.99
54.0-55.0	183.7	16.4	706.0	1.64	70.63
55.0-56.0	178.3	16.1	722.1	1.61	72.24
56.0-57.0	172.8	15.8	737.9	1.58	73.82
57.0-58.0	167.6	15.5	753.4	1.55	75.37
58.0-59.0	162.0	15.1	768.6	1.52	76.89
59.0-60.0	156.4	14.8	783.3	1.48	78.37
60.0-61.0	150.8	14.4	797.7	1.44	79.81
61.0-62.0	145.2	14.0	811.7	1.40	81.21
62.0-63.0	139.7	13.6	825.3	1.36	82.57
63.0-64.0	133.9	13.1	838.5	1.31	83.88
64.0-65.0	128.2	12.7	851.1	1.27	85.15
65.0-66.0	122.6	12.2	863.4	1.22	86.37
66.0-67.0	116.8	11.7	875.1	1.18	87.55
67.0-68.0	111.1	11.3	886.4	1.13	88.67
68.0-69.0	105.5	10.8	897.1	1.08	89.75
69.0-70.0	99.7	10.2	907.4	1.02	90.78
70.0-71.0	94.1	9.7	917.1	0.97	91.75
71.0-72.0	88.3	9.2	926.3	0.92	92.67
72.0-73.0	82.6	8.6	934.9	0.86	93.53
73.0-74.0	77.2	8.1	943.0	0.81	94.34
74.0-75.0	71.6	7.6	950.6	0.76	95.10
75.0-76.0	66.0	7.0	957.6	0.70	95.80
76.0-77.0	60.5	6.4	964.1	0.65	96.45
77.0-78.0	55.0	5.9	970.0	0.59	97.04
78.0-79.0	49.8	5.4	975.3	0.54	97.57
79.0-80.0	44.5	4.8	980.1	0.48	98.05

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	39.2	4.2	984.4	0.42	98.48
81.0-82.0	34.2	3.7	988.1	0.37	98.85
82.0-83.0	29.1	3.2	991.2	0.32	99.16
83.0-84.0	24.2	2.6	993.9	0.26	99.43
84.0-85.0	19.4	2.1	996.0	0.21	99.64
85.0-86.0	14.6	1.6	997.6	0.16	99.80
86.0-87.0	10.2	1.1	998.7	0.11	99.91
87.0-88.0	5.8	0.6	999.3	0.06	99.97
88.0-89.0	2.1	0.2	999.6	0.02	100.00
89.0-90.0	0.4	0.0	999.6	0.00	100.00

Color Properties



Colorimetric

CIE(x,y): 0.3868,0.3692
CIE(u,v): 0.2324,0.3328
CIE(u',v'): 0.2324,0.4992
CCT: 3768 K (Duv=-0.005352)
Dominant Wavelength: 602.3 nm
Color Purity: 0.269
Peak Wavelength: 455.7 nm
Half Width: 26.1 nm
Color Ratio: R:0.216, G:0.738, B:0.046
Luminous Flux: 999.59 lm
Radiant Power: 3.520 W

Color Render Index: Ra: 94.9

R1: 98	R2: 97	R3: 97	R4: 95	R5: 96	R6: 94	R7: 92	R8: 91
R9: 84	R10: 97	R11: 97	R12: 74	R13: 98	R14: 100	R15: 97	

Color Quality Scale: Qa: 92.7 , Qf: 92.0 , Qp: 94.4 , Qg: 99.7

Q1: 91	Q2: 97	Q3: 89	Q4: 86	Q5: 89	Q6: 93	Q7: 96	Q8: 96
Q9: 99	Q10: 97	Q11: 95	Q12: 95	Q13: 95	Q14: 94	Q15: 93	

TM-30-18: Rf: 90 , Rg: 98

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'): 0.2326, 0.4994
Spatially Averaged Chromaticity (CCT): 3757K
Spatial non-uniformity of chromaticity Δu'v'(Δu',Δv') : 0.000387 (-0.0002,-0.0003)
CIE S025: Spatially Averaged Chromaticity (u',v'): 0.2327, 0.4994
Spatially Averaged Chromaticity (CCT): 3756K
Angular Colour Uniformity Δu'v'(Δu',Δv') : 0.000422 (-0.0002,-0.0004)
GB/T 24824: Spatially Averaged Chromaticity (u',v'): 0.2326, 0.4994
Average Color Nonuniformity Δu'v'(Δu',Δv') :0.000325 (0.0001,-0.0003)
Maximum Color Nonuniformity Δu'v'(Δu',Δv') :0.000662 (-0.0001,-0.0007)

Color Distribution Data (u',v') Average Color(u',v'):(0.2326,0.4994)

G\C	0.0	30.0	60.0	90.0
0.0	0.2325,0.4998	----	----	----
15.0	----	----	----	0.2325,0.4997
30.0	----	----	0.2325,0.4997	----
45.0	----	0.2325,0.4997	----	----

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'):(0.2326,0.4994)

G\C	120.0	150.0	180.0	210.0
0.0	0.2325,0.4997	----	----	----
15.0	----	----	----	0.2324,0.4995
30.0	----	----	0.2324,0.4995	----
45.0	----	0.2324,0.4995	----	----

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'):(0.2326,0.4994)

G\C	240.0	270.0	300.0	330.0
0.0	0.2324,0.4995	----	----	----
15.0	----	----	----	0.2325,0.4999
30.0	----	----	0.2325,0.4999	----
45.0	----	0.2325,0.4999	----	----

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 :