
Access Lighting

Client:20506LEDD

Luminaire: ceiling light

Report No:

Ballast type:

Test No:

LampCAT:

Voltage(V): 120.020

Lamp flux(lm): 874.9

Current(A): 0.132

Number of Lamps: 1

Power (W): 14.630

Length(mm): -300 Phm

PF: 0.924

Type: C

Width(mm): -300

Height(mm): 60

Photometric Results

Lumens(lm): 874.92, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 59.80

Central intensity(cd): 248.629, Maximum intensity(cd): 248.629

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=119.0

[C90/270]Total=119.0

Field angle(10%Imax): [C0/180]Total=183.8

[C90/270]Total=185.6

Maximum s/h(1/2): C0_180=1.28 C90_270=1.28

Maximum s/h(1/4): C0_180=1.41 C90_270=1.41

Up flux rate of lamp(%): 8.54%

Down flux rate of lamp(%): 91.46%

Up flux rate of LUM(%): 8.54%

Down flux rate of LUM(%): 91.46%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 66.741%

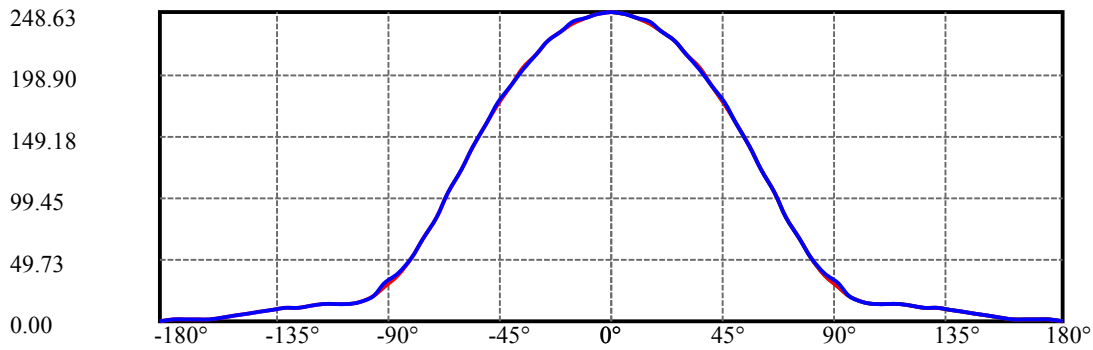
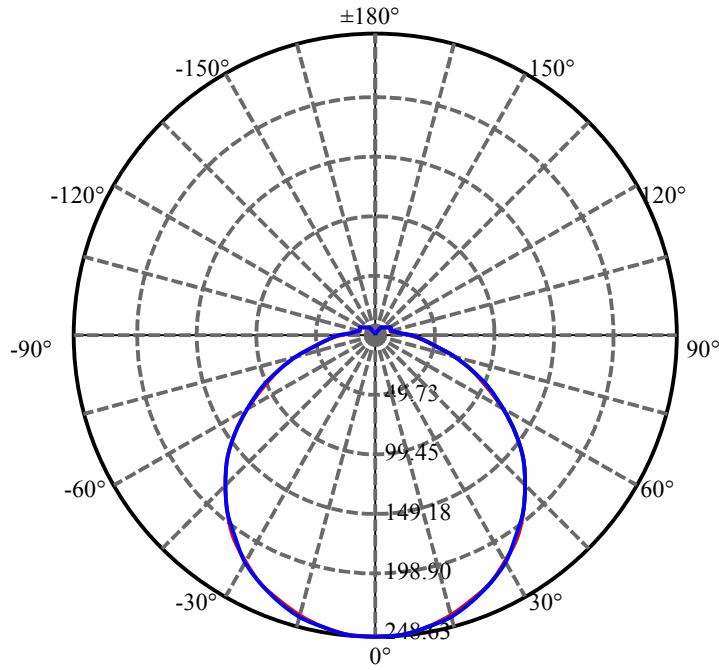
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	248.629	0.000	0	0.00%	0.00%
5.0	247.633	5.933	5.933	0.68%	0.68%
10.0	244.831	17.617	23.55	2.01%	2.69%
15.0	240.147	28.769	52.318	3.29%	5.98%
20.0	233.547	39.039	91.357	4.46%	10.44%
25.0	225.102	48.104	139.461	5.50%	15.94%
30.0	215.146	55.714	195.175	6.37%	22.31%
35.0	203.233	61.609	256.784	7.04%	29.35%
40.0	190.031	65.613	322.397	7.50%	36.85%
45.0	175.429	67.668	390.065	7.73%	44.58%
50.0	158.796	67.535	457.6	7.72%	52.30%
55.0	141.278	65.246	522.846	7.46%	59.76%
60.0	122.988	61.084	583.93	6.98%	66.74%
65.0	103.221	54.992	638.922	6.29%	73.03%
70.0	84.156	47.445	686.367	5.42%	78.45%
75.0	67.082	39.531	725.898	4.52%	82.97%
80.0	51.371	31.695	757.593	3.62%	86.59%
85.0	38.465	24.411	782.004	2.79%	89.38%
90.0	28.102	18.227	800.23	2.08%	91.46%
95.0	20.173	13.218	813.449	1.51%	92.97%
100.0	15.563	9.710	823.159	1.11%	94.08%
105.0	14.087	7.934	831.092	0.91%	94.99%
110.0	13.940	7.326	838.418	0.84%	95.83%
115.0	13.497	6.947	845.365	0.79%	96.62%
120.0	12.686	6.365	851.73	0.73%	97.35%
125.0	11.543	5.600	857.331	0.64%	97.99%
130.0	10.399	4.771	862.102	0.55%	98.53%
135.0	8.998	3.920	866.021	0.45%	98.98%
140.0	7.486	3.052	869.073	0.35%	99.33%
145.0	6.048	2.258	871.332	0.26%	99.59%
150.0	4.425	1.542	872.874	0.18%	99.77%
155.0	2.987	0.938	873.812	0.11%	99.87%
160.0	2.176	0.541	874.353	0.06%	99.93%
165.0	1.770	0.325	874.678	0.04%	99.97%
170.0	0.958	0.162	874.84	0.02%	99.99%
175.0	0.885	0.066	874.906	0.01%	100.00%
180.0	0.443	0.016	874.922	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	195.17	22.31%	22.31%
0-40	322.40	36.85%	36.85%
0-60	583.93	66.74%	66.74%
0-90	800.23	91.46%	91.46%
0-120	851.73	97.35%	97.35%
0-180	874.92	100.00%	100.00%
60-90	216.30	24.72%	24.72%
90-120	51.50	5.89%	5.89%
90-130	61.87	7.07%	7.07%
90-150	72.64	8.30%	8.30%
90-180	74.68	8.54%	8.54%
0-71.72	699.94	80.00%	80.00%

ZONAL LUMEN SUMMARY

0-10	23.55
10-20	67.81
20-30	103.82
30-40	127.22
40-50	135.20
50-60	126.33
60-70	102.44
70-80	71.23
80-90	42.64
90-100	22.93
100-110	15.26
110-120	13.31
120-130	10.37
130-140	6.97
140-150	3.80
150-160	1.48
160-170	0.49
170-180	0.07



C0(Max): —————

C0/C180: —————

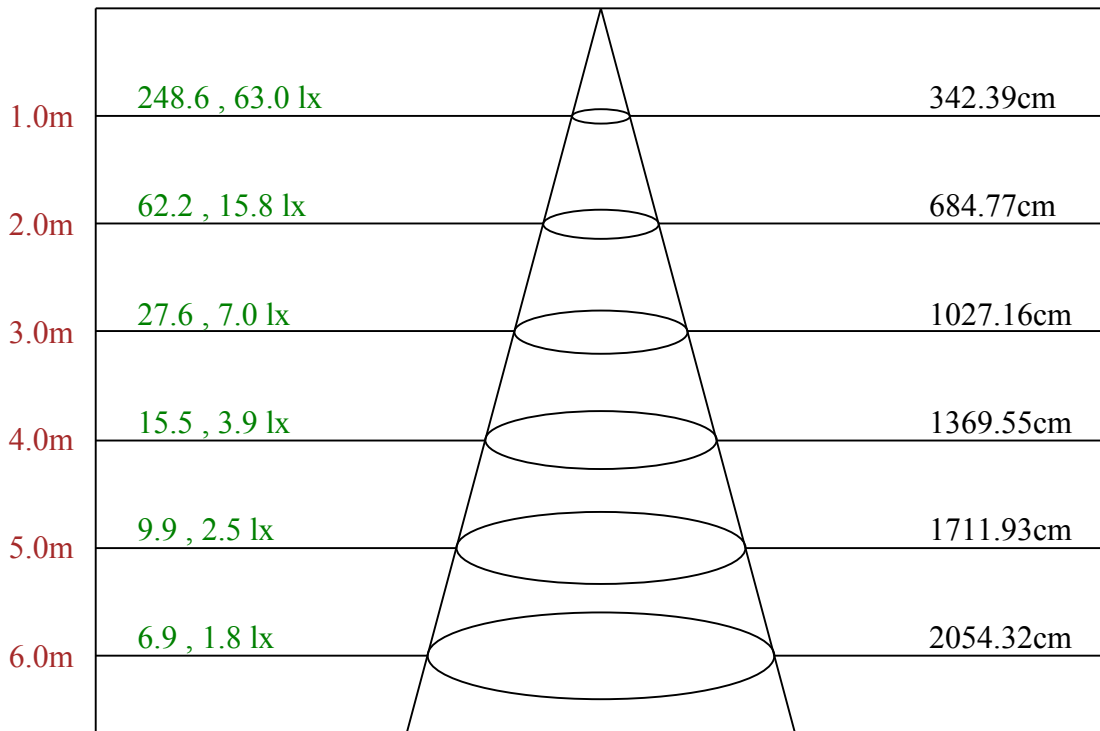
C90/C270: —————

Field angle(10%Imax):C0/180Left:91.9 Right:91.9

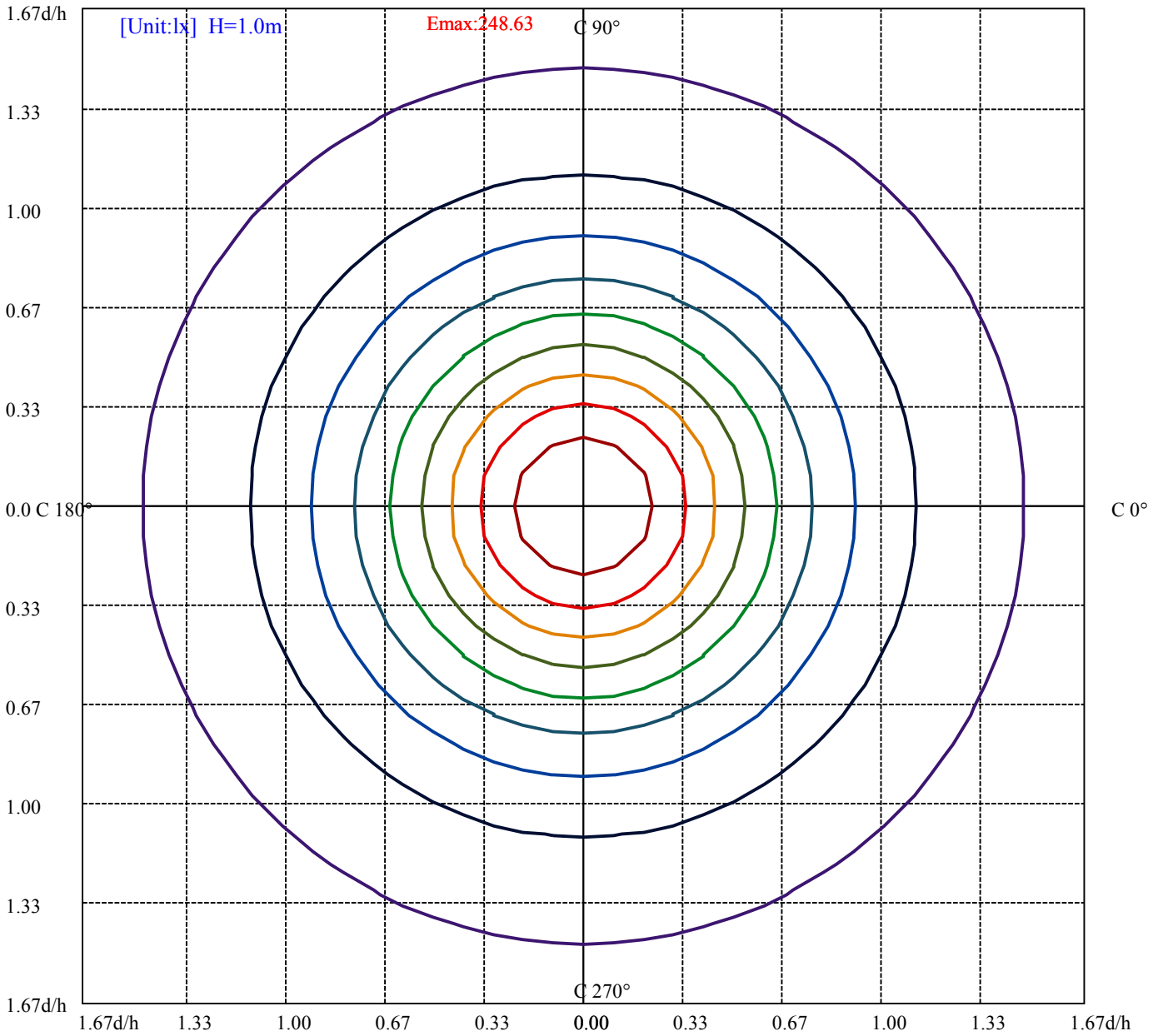
:C90/270Left:92.8 Right:92.8

Beam Angle(50%Imax):C0/180Left:59.5 Right:59.5

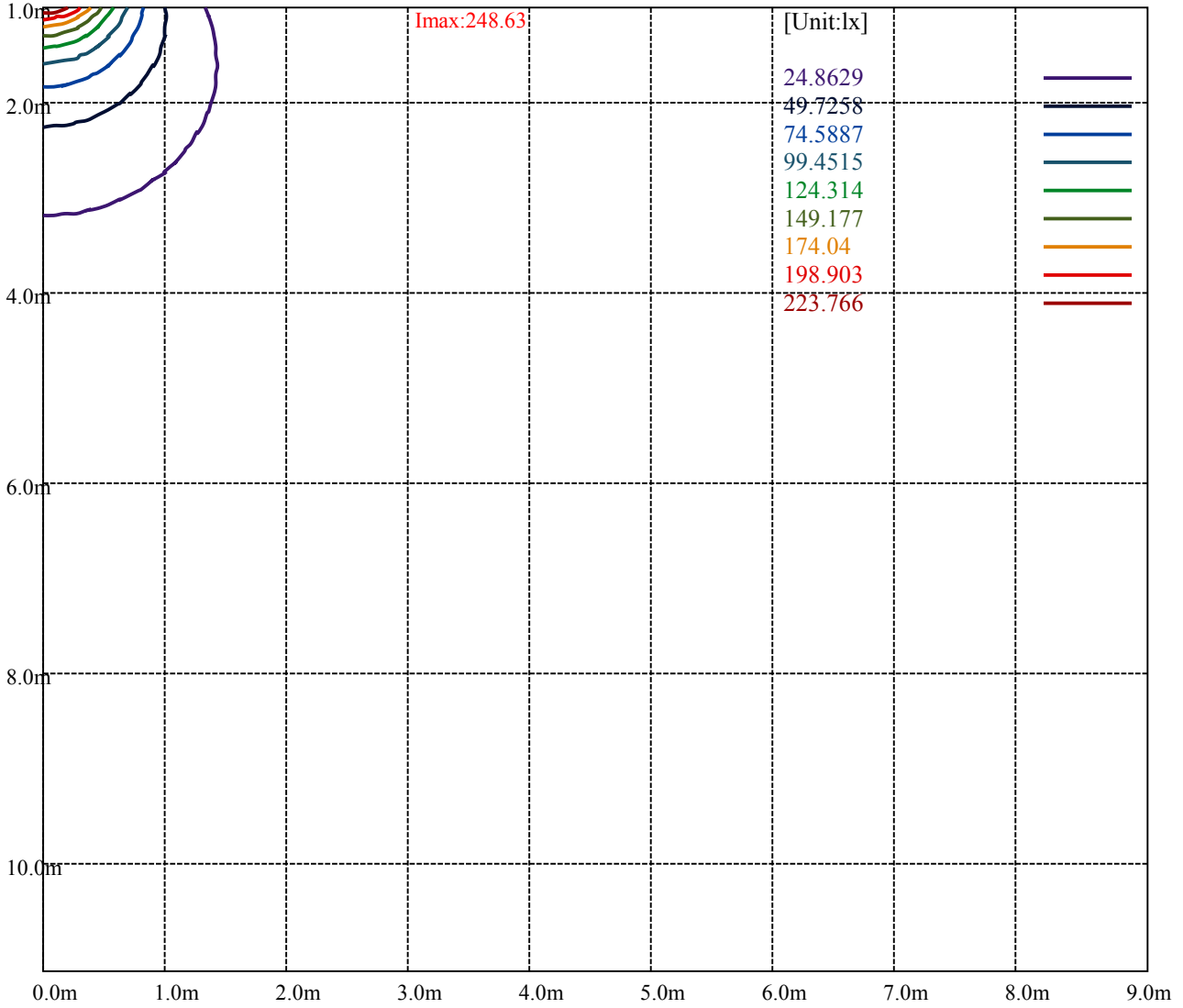
:C90/270Left:59.5 Right:59.5



Max , Ave Beam angle of C0 plane 119.42



- (10%Emax) 24.8629
- (20%Emax) 49.7258
- (30%Emax) 74.5886
- (40%Emax) 99.4515
- (50%Emax) 124.314
- (60%Emax) 149.177
- (70%Emax) 174.04
- (80%Emax) 198.903
- (90%Emax) 223.766



Luminance Table

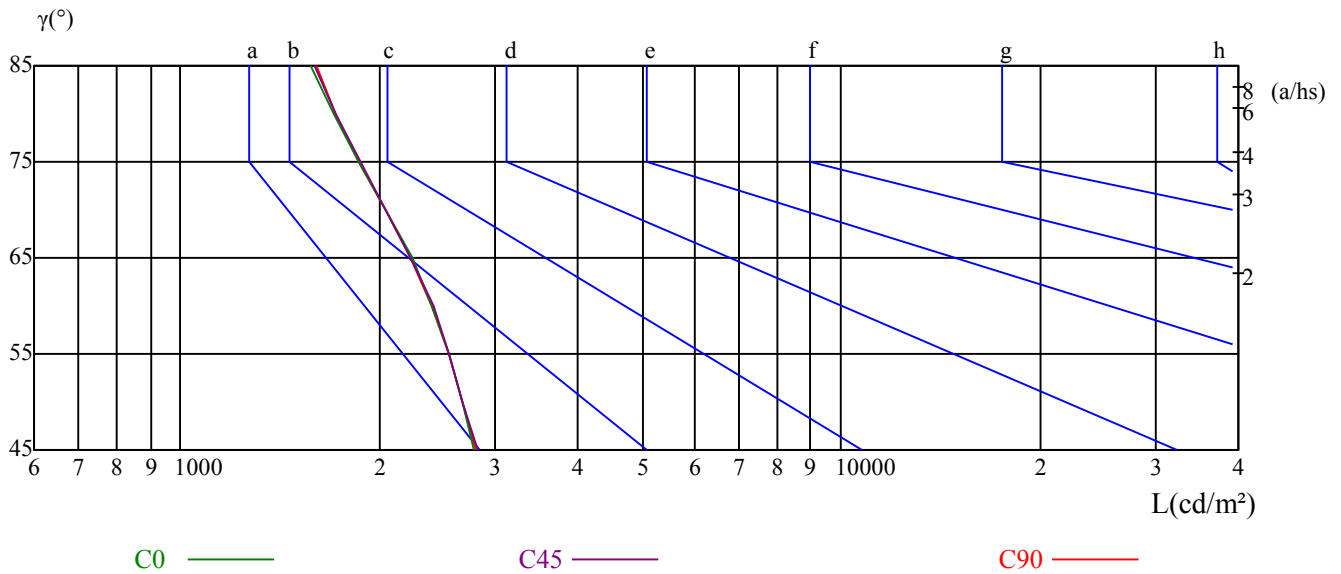
γ	45	50	55	60	65	70	75	80	85
C0	2786	2679	2555	2407	2240	2042	1864	1710	1570
C45	2820	2679	2553	2410	2236	2049	1869	1721	1600
C90	2797	2676	2554	2406	2230	2042	1866	1717	1603

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3463	3448	3457	3635	3640	3646	6138	6270	6259

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	1.00	1.00	1.00	0.94	0.94	0.94	0.91
1	1.00	0.95	0.91	0.97	0.92	0.88	0.91	0.87	0.84	0.85	0.82	0.80	0.80	0.78	0.76	0.73
2	0.86	0.79	0.73	0.84	0.77	0.71	0.79	0.73	0.68	0.74	0.69	0.65	0.70	0.66	0.63	0.60
3	0.75	0.67	0.60	0.73	0.65	0.59	0.69	0.62	0.56	0.65	0.59	0.54	0.61	0.56	0.52	0.50
4	0.66	0.57	0.50	0.64	0.56	0.49	0.61	0.54	0.48	0.57	0.51	0.46	0.54	0.49	0.45	0.42
5	0.59	0.50	0.43	0.57	0.49	0.42	0.54	0.47	0.41	0.51	0.45	0.40	0.49	0.43	0.39	0.36
6	0.53	0.44	0.37	0.52	0.43	0.37	0.49	0.41	0.36	0.46	0.40	0.35	0.44	0.38	0.34	0.31
7	0.48	0.39	0.33	0.47	0.38	0.32	0.44	0.37	0.31	0.42	0.36	0.31	0.40	0.34	0.30	0.28
8	0.44	0.35	0.29	0.43	0.34	0.29	0.41	0.33	0.28	0.39	0.32	0.27	0.37	0.31	0.27	0.25
9	0.40	0.32	0.26	0.39	0.31	0.26	0.37	0.30	0.25	0.36	0.29	0.25	0.34	0.28	0.24	0.22
10	0.37	0.29	0.24	0.36	0.28	0.23	0.34	0.28	0.23	0.33	0.27	0.22	0.32	0.26	0.22	0.20

Access Lighting IN-100612SN

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	248.63	247.76	245.15	240.80	234.72	226.90	216.46	206.03	192.99
15.0	248.63	248.63	245.99	241.60	234.57	226.67	217.00	205.58	192.40
30.0	248.63	247.75	245.10	240.69	234.52	225.71	216.01	204.55	191.32
45.0	248.63	247.74	245.09	240.67	233.59	225.62	215.01	203.50	190.23
60.0	248.63	246.86	244.20	239.78	232.70	224.74	214.12	202.62	189.35
75.0	248.63	247.74	245.08	239.75	233.53	224.65	214.00	202.45	189.14
90.0	248.63	247.74	244.19	239.75	232.65	223.77	213.11	201.57	188.25
105.0	248.63	246.85	244.19	238.86	232.65	223.77	213.11	201.57	188.25
120.0	248.63	246.85	244.19	238.86	232.65	223.77	214.00	201.57	188.25
135.0	248.63	246.85	244.19	239.75	232.65	224.65	214.00	202.45	189.14
150.0	248.63	247.74	245.06	240.61	234.37	226.35	215.66	204.07	190.70
165.0	248.63	248.63	245.96	241.50	235.26	226.35	216.55	204.96	192.49
180.0	248.63	246.89	244.28	239.07	231.24	222.55	212.12	200.82	186.91
195.0	248.63	247.75	244.24	239.84	232.82	224.03	213.49	201.19	188.01
210.0	248.63	247.75	244.22	239.81	232.76	223.94	214.24	201.90	188.68
225.0	248.63	247.74	245.09	239.78	233.59	224.74	215.01	202.62	189.35
240.0	248.63	247.74	244.20	239.78	233.59	224.74	215.01	202.62	190.23
255.0	248.63	247.74	245.08	240.64	234.42	225.54	215.77	204.23	190.91
270.0	248.63	247.74	245.08	240.64	234.42	226.43	216.66	204.23	190.91
285.0	248.63	247.74	245.08	240.64	234.42	226.43	216.66	205.12	191.80
300.0	248.63	247.74	245.08	240.64	234.42	225.54	215.77	205.12	191.80
315.0	248.63	247.74	245.08	239.75	233.53	225.54	215.77	203.34	190.91
330.0	248.63	247.74	245.06	240.61	233.48	225.46	220.11	203.18	189.81
345.0	248.63	247.74	245.06	239.72	232.59	224.57	213.87	202.29	188.92
360.0	248.63	247.76	245.15	240.80	234.72	226.90	216.46	206.03	192.99
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	178.21	162.57	145.18	126.92	107.80	87.80	70.42	54.77	40.86
15.0	178.35	161.65	144.96	125.63	107.18	86.98	69.41	53.59	40.41
30.0	176.33	160.46	142.83	124.31	104.92	85.52	68.77	52.90	39.67
45.0	175.19	159.26	141.57	123.87	104.41	84.94	67.24	52.20	39.82
60.0	174.31	158.38	140.68	122.10	102.64	84.06	66.36	51.32	38.93
75.0	174.04	158.06	140.30	121.65	102.12	83.47	66.60	50.61	39.07
90.0	174.04	156.28	139.41	120.76	101.23	82.58	64.82	50.61	38.18
105.0	173.15	156.28	139.41	119.87	100.34	82.58	64.82	49.73	38.18
120.0	173.15	157.17	139.41	120.76	101.23	82.58	65.71	50.61	38.18
135.0	174.93	158.06	140.30	121.65	103.00	83.47	66.60	51.50	38.18
150.0	176.45	160.41	141.69	123.87	105.15	84.66	67.73	51.69	39.21
165.0	177.34	161.30	143.47	124.76	106.05	86.44	68.62	52.58	39.21
180.0	171.26	154.74	137.35	118.23	99.10	79.98	62.59	47.81	34.77
195.0	172.20	156.38	138.81	119.48	99.28	80.83	64.13	48.32	36.02
210.0	173.69	156.94	139.30	120.79	100.51	81.99	64.36	49.37	36.15
225.0	174.31	158.38	140.68	122.10	101.75	83.17	65.48	50.43	37.16
240.0	175.19	158.38	141.57	122.10	103.52	84.06	66.36	51.32	38.05
255.0	175.82	159.83	142.07	123.43	103.89	85.24	67.48	51.50	38.18
270.0	176.70	160.72	142.96	124.31	104.78	85.24	68.37	52.39	39.07
285.0	177.59	160.72	143.85	125.20	105.67	87.02	76.36	53.28	39.96
300.0	176.70	160.72	142.96	133.19	104.78	86.13	68.37	53.28	39.07
315.0	182.92	158.94	142.07	123.43	103.89	85.24	67.48	52.39	39.07
330.0	174.66	158.62	140.80	122.09	102.48	83.77	66.84	50.80	38.32
345.0	173.77	156.84	139.02	121.20	101.59	81.99	65.05	49.90	37.43
360.0	178.21	162.57	145.18	126.92	107.80	87.80	70.42	54.77	40.86

Access Lighting IN-100612SN

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	30.43	21.73	16.52	13.91	13.91	13.91	13.04	12.17	11.30
15.0	29.87	21.96	16.69	14.94	14.94	14.06	14.06	13.18	11.42
30.0	29.09	21.16	16.75	14.99	14.99	14.99	14.11	13.22	12.34
45.0	29.20	21.24	16.81	15.04	15.93	15.04	14.16	13.27	12.39
60.0	28.31	21.24	16.81	15.04	15.04	15.04	14.16	13.27	12.39
75.0	28.41	21.31	16.87	15.10	15.98	15.10	14.21	13.32	11.54
90.0	28.41	21.31	16.87	15.10	15.10	15.10	14.21	13.32	11.54
105.0	28.41	20.42	15.98	15.10	15.10	14.21	14.21	12.43	11.54
120.0	28.41	20.42	15.98	15.10	14.21	14.21	13.32	12.43	11.54
135.0	28.41	20.42	15.98	14.21	14.21	14.21	13.32	12.43	10.66
150.0	28.52	20.50	16.04	14.26	14.26	13.37	12.48	11.58	10.69
165.0	28.52	20.50	16.04	14.26	14.26	13.37	12.48	11.58	10.69
180.0	25.21	18.26	13.91	13.91	13.91	13.04	12.17	10.43	9.56
195.0	25.48	18.45	14.94	14.06	13.18	13.18	11.42	10.54	8.79
210.0	25.57	18.51	14.11	13.22	13.22	12.34	11.46	9.70	8.82
225.0	25.66	18.58	14.16	13.27	12.39	12.39	11.50	9.73	8.85
240.0	26.54	18.58	14.16	12.39	12.39	11.50	11.50	9.73	8.85
255.0	27.53	19.54	14.21	13.32	12.43	11.54	10.66	9.77	8.88
270.0	32.85	19.54	15.10	13.32	12.43	12.43	11.54	9.77	8.88
285.0	28.41	20.42	15.10	13.32	12.43	12.43	11.54	10.66	8.88
300.0	28.41	20.42	15.10	13.32	13.32	12.43	11.54	10.66	9.77
315.0	28.41	20.42	15.10	13.32	13.32	13.32	12.43	10.66	9.77
330.0	27.63	19.61	15.15	13.37	13.37	13.37	12.48	11.58	9.80
345.0	26.73	19.61	15.15	14.26	14.26	13.37	12.48	11.58	10.69
360.0	30.43	21.73	16.52	13.91	13.91	13.91	13.04	12.17	11.30
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	9.56	7.82	6.95	5.22	3.48	2.61	1.74	1.74	0.87
15.0	10.54	8.79	7.03	5.27	3.51	2.64	1.76	1.76	0.88
30.0	10.58	8.82	7.05	5.29	3.53	2.64	1.76	0.88	0.88
45.0	10.62	8.85	7.08	5.31	3.54	2.65	1.77	0.88	0.88
60.0	10.62	8.85	7.08	5.31	3.54	2.65	1.77	0.88	0.88
75.0	10.66	8.88	7.10	5.33	3.55	2.66	1.78	0.89	0.89
90.0	10.66	8.88	7.10	5.33	3.55	2.66	1.78	0.89	0.89
105.0	9.77	7.99	7.10	4.44	3.55	2.66	1.78	0.89	0.89
120.0	9.77	7.99	6.22	4.44	3.55	2.66	1.78	0.89	0.89
135.0	9.77	7.99	6.22	4.44	2.66	2.66	1.78	0.89	0.89
150.0	8.91	8.02	6.24	4.46	2.67	2.67	1.78	0.89	0.89
165.0	8.91	7.13	6.24	4.46	2.67	1.78	1.78	0.89	0.89
180.0	7.82	6.95	5.22	3.48	2.61	1.74	1.74	0.87	0.87
195.0	7.91	6.15	5.27	3.51	2.64	1.76	1.76	0.88	0.88
210.0	7.93	6.17	4.41	4.41	2.64	1.76	1.76	0.88	0.88
225.0	7.96	6.19	4.42	3.54	2.65	1.77	1.77	0.88	0.88
240.0	7.08	6.19	4.42	3.54	2.65	1.77	1.77	0.88	0.88
255.0	7.10	6.22	5.33	3.55	2.66	1.78	1.78	0.89	0.89
270.0	7.99	6.22	5.33	3.55	2.66	1.78	1.78	0.89	0.89
285.0	7.99	7.10	5.33	3.55	2.66	1.78	1.78	0.89	0.89
300.0	7.99	7.10	5.33	4.44	2.66	1.78	1.78	0.89	0.89
315.0	7.99	7.10	6.22	4.44	2.66	1.78	1.78	0.89	0.89
330.0	8.91	7.13	6.24	4.46	2.67	1.78	1.78	0.89	0.89
345.0	8.91	7.13	6.24	4.46	2.67	1.78	1.78	0.89	0.89
360.0	9.56	7.82	6.95	5.22	3.48	2.61	1.74	1.74	0.87

Intensity data(cd)

C/ γ (°)	180.0
0.0	0.87
15.0	0.88
30.0	0.88
45.0	0.88
60.0	0.88
75.0	0.89
90.0	0.89
105.0	0.89
120.0	0.89
135.0	0.89
150.0	0.89
165.0	0.89
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	0.87