



NATA LIGHTING CO.,LED
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000 (10 lines) Fax:+86 0750-377 1111
Address:380 JinOu Road, JiangMen City, GuangDong, China 529040

NT

Client: NT

LumCAT: 2-2954-LM

Luminaire: 92.70.411.00 LED HOLDER

Report No: 20250318-B001

Ballast type: AC

Test No: 20250318-C001

Voltage(V): 35.830

LampCAT: LUMILEDS LUXEON COB 1208 Current(A): 0.897

Lamp flux(lm): 3990.4 Power (W): 32.130

Number of Lamps: 1 PF: 0.000

Length(mm): 69 Width(mm): 64

Phm Type: C Height(mm): 44

Photometric Results

Lumens(lm): 3780.80, Efficiency(%): 94.75% , Luminous Efficacy(lm/W): 117.67

Central intensity(cd): 15161.700, Maximum intensity(cd): 15294.920

Angle of maximum intensity: C=45.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.6

[C90/270]Total=23.6

Field angle(10%Imax): [C0/180]Total=53.9

[C90/270]Total=53.9

Maximum s/h(1/2): C0_180=0.44 C90_270=0.37

Maximum s/h(1/4): C0_180=0.44 C90_270=0.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.69%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 100.018%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/3/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	15240.301	0.000	0	0.00%	0.00%
1.0	15166.361	14.549	14.549	0.36%	0.38%
2.0	14941.210	43.213	57.762	1.08%	1.53%
3.0	14560.853	70.559	128.322	1.77%	3.39%
4.0	14068.587	95.832	224.153	2.40%	5.93%
5.0	13419.115	118.251	342.404	2.96%	9.06%
6.0	12549.355	136.471	478.875	3.42%	12.67%
7.0	11429.133	148.834	627.709	3.73%	16.60%
8.0	10918.948	159.941	787.65	4.01%	20.83%
9.0	10190.607	171.081	958.732	4.29%	25.36%
10.0	9314.453	176.514	1135.245	4.42%	30.03%
11.0	8413.852	177.142	1312.388	4.44%	34.71%
12.0	7555.150	174.564	1486.952	4.37%	39.33%
13.0	6733.018	169.565	1656.516	4.25%	43.81%
14.0	5905.624	161.774	1818.29	4.05%	48.09%
15.0	5226.710	152.830	1971.119	3.83%	52.13%
16.0	4655.441	144.801	2115.92	3.63%	55.96%
17.0	4026.353	135.199	2251.119	3.39%	59.54%
18.0	3588.442	125.551	2376.671	3.15%	62.86%
19.0	3193.497	117.992	2494.663	2.96%	65.98%
20.0	2800.416	109.705	2604.368	2.75%	68.88%
21.0	2589.654	103.500	2707.868	2.59%	71.62%
22.0	2368.301	99.632	2807.5	2.50%	74.26%
23.0	2169.463	95.215	2902.715	2.39%	76.78%
24.0	1906.809	89.122	2991.837	2.23%	79.13%
25.0	1756.199	83.289	3075.126	2.09%	81.34%
26.0	1622.441	79.753	3154.879	2.00%	83.44%
27.0	1523.854	76.975	3231.854	1.93%	85.48%
28.0	1415.609	74.421	3306.275	1.86%	87.45%
29.0	1266.050	70.160	3376.434	1.76%	89.30%
30.0	1143.557	65.059	3441.493	1.63%	91.03%
31.0	1041.606	60.810	3502.303	1.52%	92.63%
32.0	901.640	55.672	3557.975	1.40%	94.11%
33.0	768.642	49.207	3607.182	1.23%	95.41%
34.0	633.245	42.425	3649.607	1.06%	96.53%
35.0	507.281	35.421	3685.028	0.89%	97.47%
36.0	396.418	28.774	3713.802	0.72%	98.23%
37.0	274.577	21.884	3735.686	0.55%	98.81%

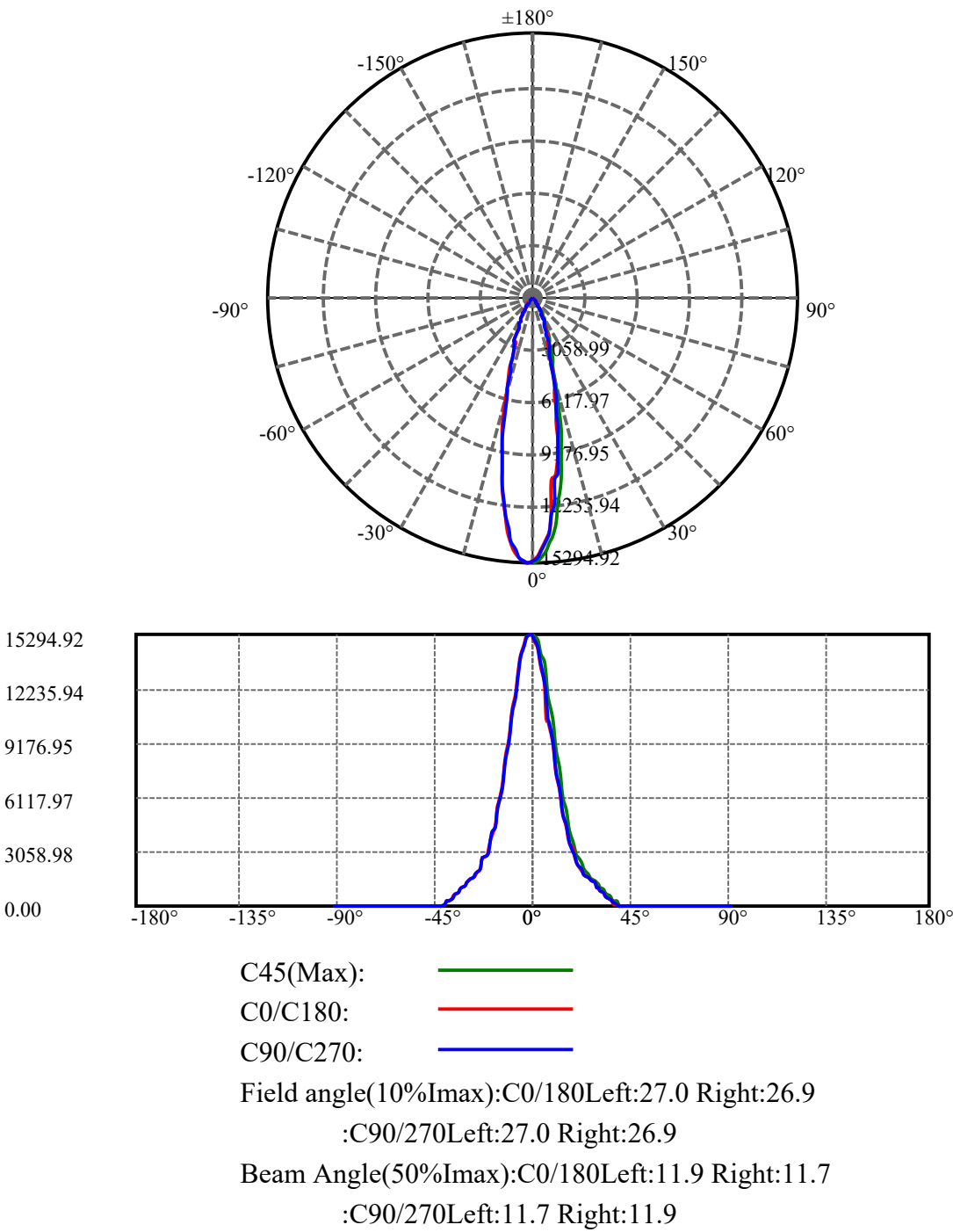
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	208.897	16.138	3751.823	0.40%	99.23%
39.0	126.324	11.442	3763.265	0.29%	99.54%
40.0	45.257	5.984	3769.25	0.15%	99.69%
41.0	20.363	2.337	3771.586	0.06%	99.76%
42.0	12.716	1.202	3772.788	0.03%	99.79%
43.0	9.805	0.834	3773.622	0.02%	99.81%
44.0	7.807	0.665	3774.287	0.02%	99.83%
45.0	6.735	0.559	3774.846	0.01%	99.84%
46.0	5.948	0.496	3775.342	0.01%	99.86%
47.0	5.296	0.447	3775.789	0.01%	99.87%
48.0	4.643	0.402	3776.191	0.01%	99.88%
49.0	4.150	0.361	3776.552	0.01%	99.89%
50.0	3.777	0.330	3776.883	0.01%	99.90%
51.0	3.417	0.304	3777.187	0.01%	99.90%
52.0	3.117	0.280	3777.467	0.01%	99.91%
53.0	2.838	0.259	3777.726	0.01%	99.92%
54.0	2.585	0.239	3777.965	0.01%	99.93%
55.0	2.358	0.221	3778.186	0.01%	99.93%
56.0	2.178	0.205	3778.391	0.01%	99.94%
57.0	1.985	0.190	3778.581	0.00%	99.94%
58.0	1.785	0.174	3778.756	0.00%	99.95%
59.0	1.659	0.161	3778.917	0.00%	99.95%
60.0	1.505	0.149	3779.066	0.00%	99.95%
61.0	1.359	0.137	3779.203	0.00%	99.96%
62.0	1.239	0.125	3779.328	0.00%	99.96%
63.0	1.159	0.117	3779.445	0.00%	99.96%
64.0	1.046	0.108	3779.553	0.00%	99.97%
65.0	0.953	0.099	3779.652	0.00%	99.97%
66.0	0.893	0.092	3779.744	0.00%	99.97%
67.0	0.793	0.085	3779.829	0.00%	99.97%
68.0	0.726	0.077	3779.905	0.00%	99.98%
69.0	0.679	0.072	3779.977	0.00%	99.98%
70.0	0.619	0.067	3780.044	0.00%	99.98%
71.0	0.566	0.061	3780.105	0.00%	99.98%
72.0	0.493	0.055	3780.16	0.00%	99.98%
73.0	0.480	0.051	3780.211	0.00%	99.98%
74.0	0.453	0.049	3780.26	0.00%	99.99%
75.0	0.406	0.045	3780.306	0.00%	99.99%

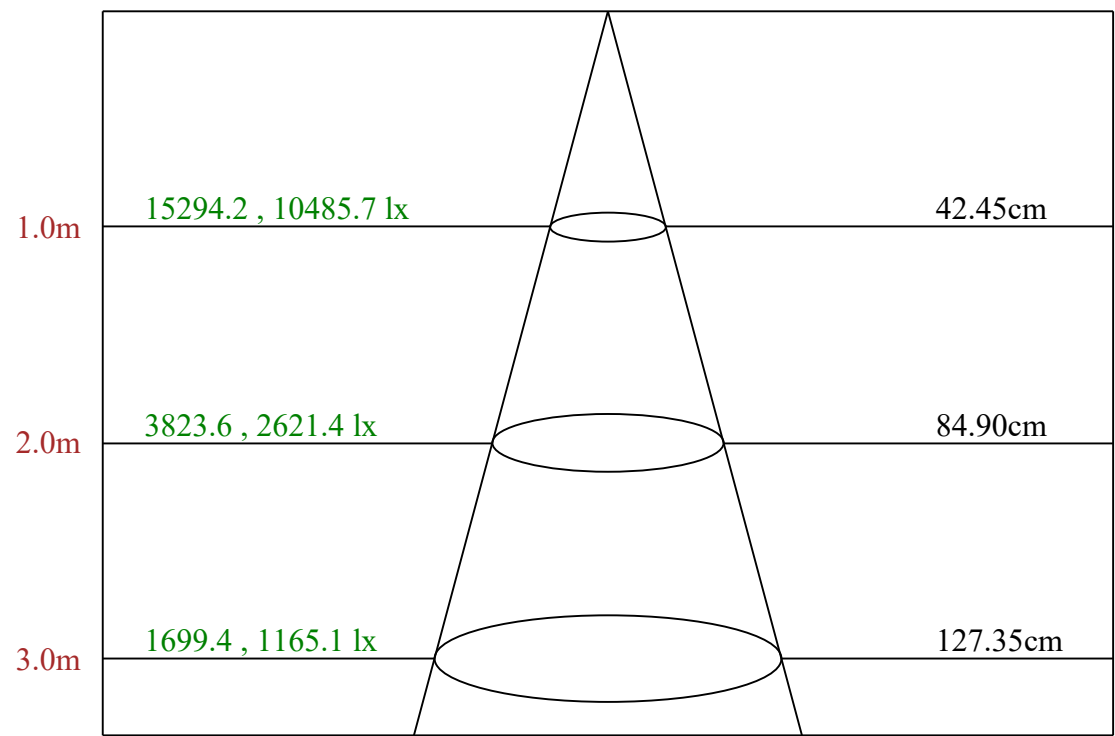
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.386	0.042	3780.348	0.00%	99.99%
77.0	0.380	0.041	3780.388	0.00%	99.99%
78.0	0.346	0.039	3780.427	0.00%	99.99%
79.0	0.326	0.036	3780.463	0.00%	99.99%
80.0	0.320	0.035	3780.498	0.00%	99.99%
81.0	0.300	0.034	3780.532	0.00%	99.99%
82.0	0.293	0.032	3780.564	0.00%	99.99%
83.0	0.286	0.032	3780.595	0.00%	99.99%
84.0	0.273	0.030	3780.626	0.00%	100.00%
85.0	0.273	0.030	3780.656	0.00%	100.00%
86.0	0.273	0.030	3780.686	0.00%	100.00%
87.0	0.266	0.030	3780.715	0.00%	100.00%
88.0	0.266	0.029	3780.744	0.00%	100.00%
89.0	0.260	0.029	3780.773	0.00%	100.00%
90.0	0.246	0.028	3780.801	0.00%	100.00%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	3441.49	86.24%	91.03%
0-40	3769.25	94.46%	99.69%
0-60	3779.07	94.70%	99.95%
0-90	3780.77	94.75%	100.00%
0-120	3780.77	94.75%	100.00%
0-180	3780.80	94.75%	100.00%
60-90	1.71	0.04%	0.05%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.39	3024.64	75.80%	80.00%

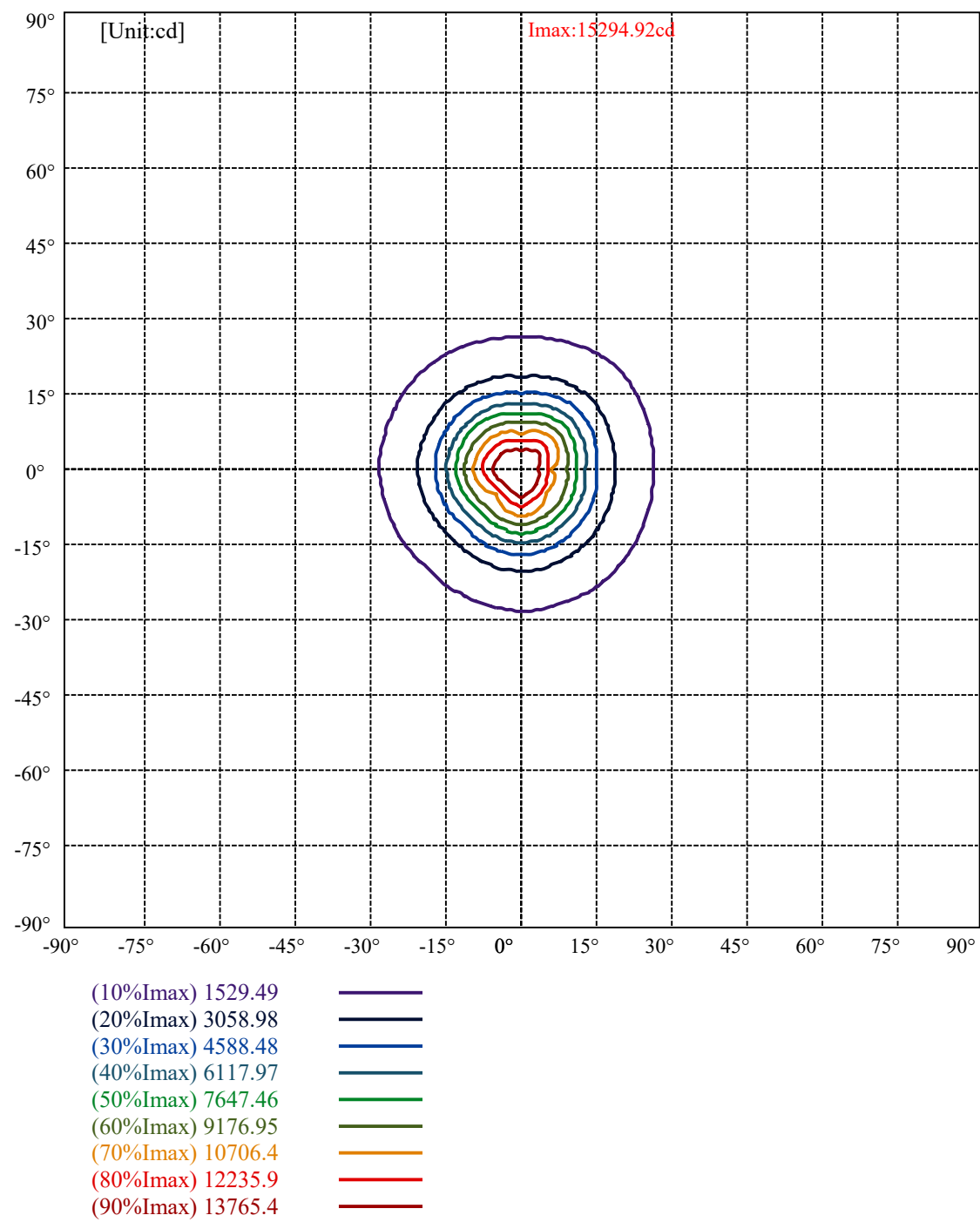
ZONAL LUMEN SUMMARY

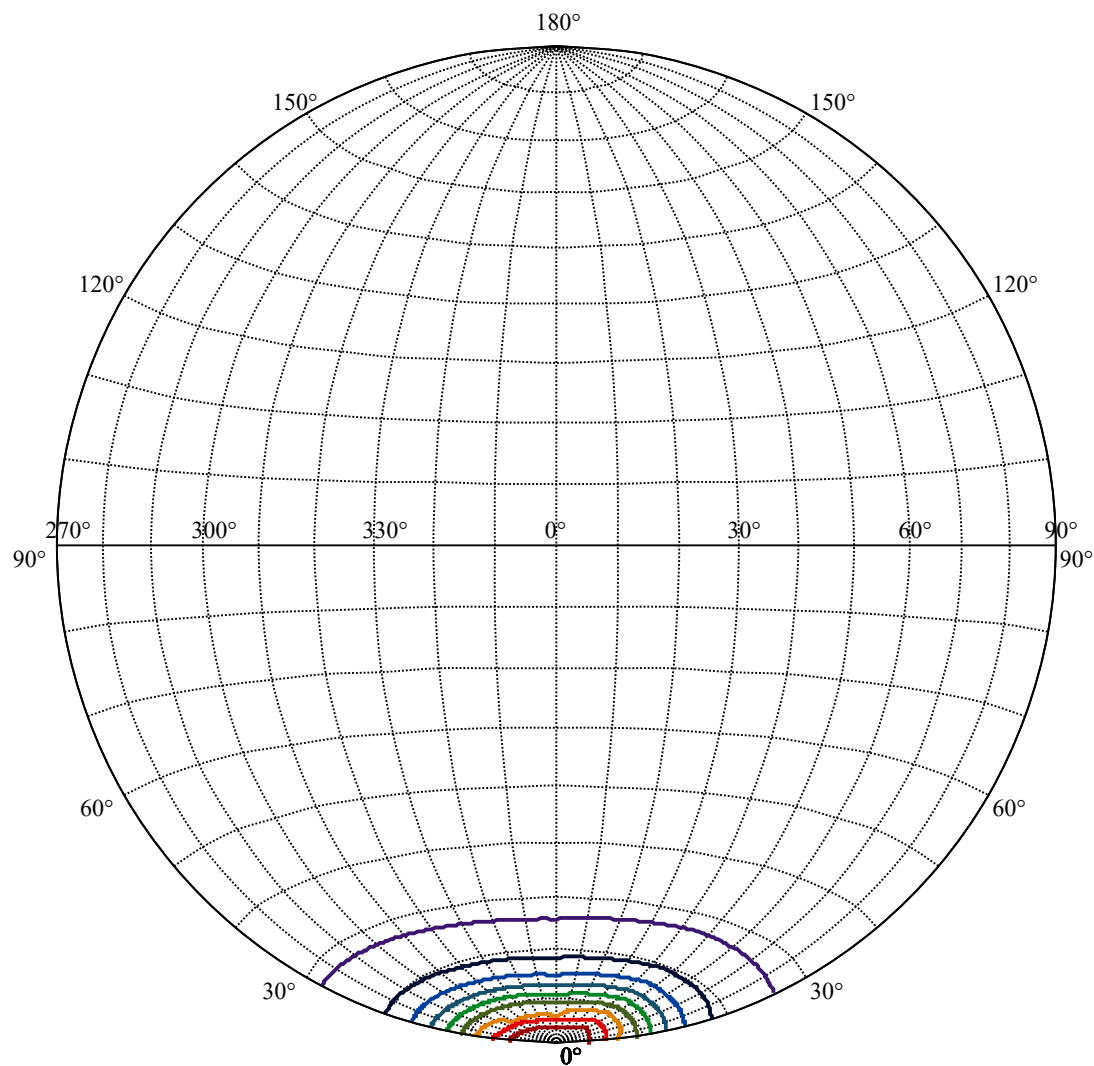
0-10	1135.25
10-20	1469.12
20-30	837.13
30-40	327.76
40-50	7.63
50-60	2.18
60-70	0.98
70-80	0.45
80-90	0.27
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00





Max , Ave Beam angle of C45 plane 23.97





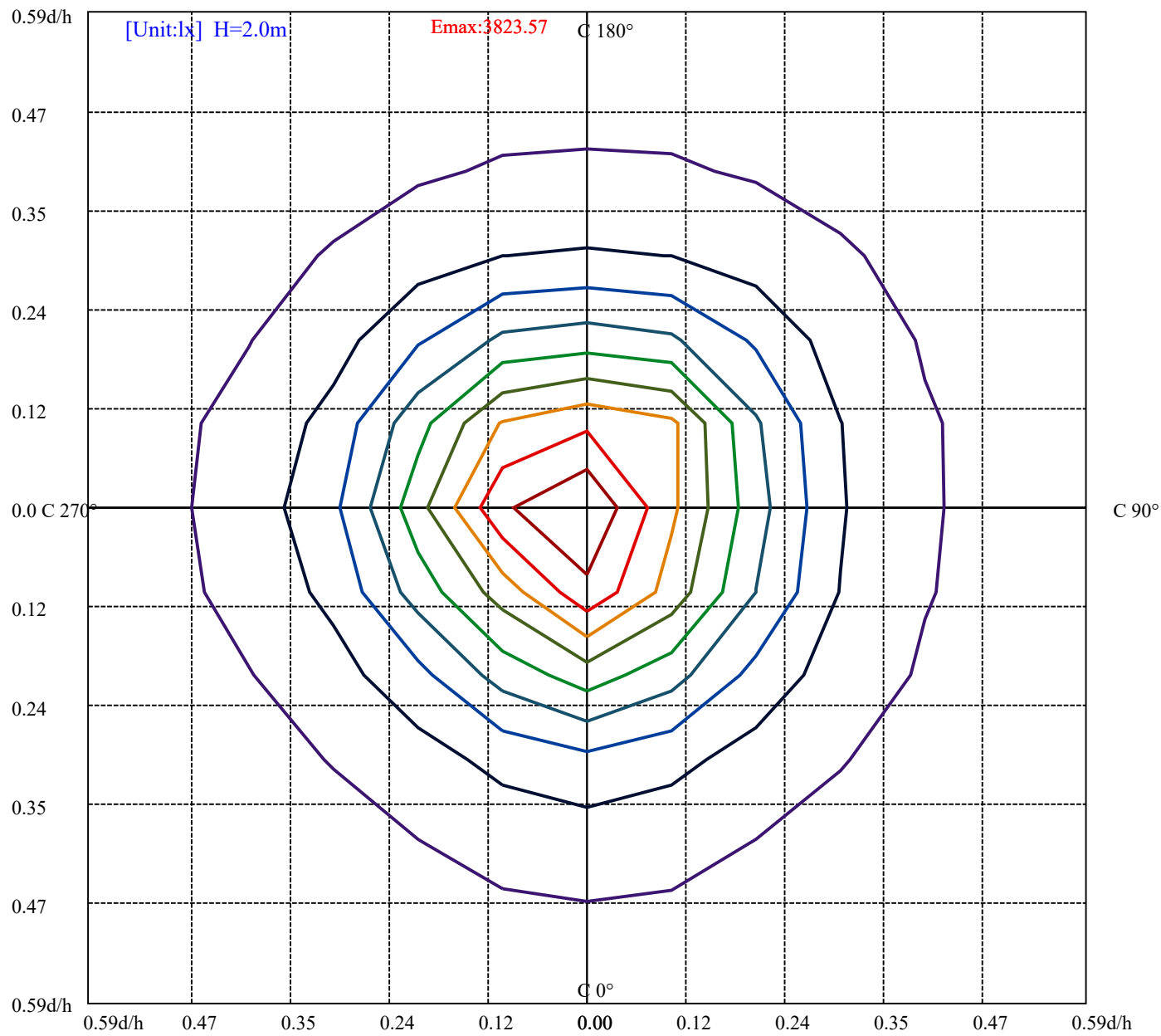
House

[Unit:cd]

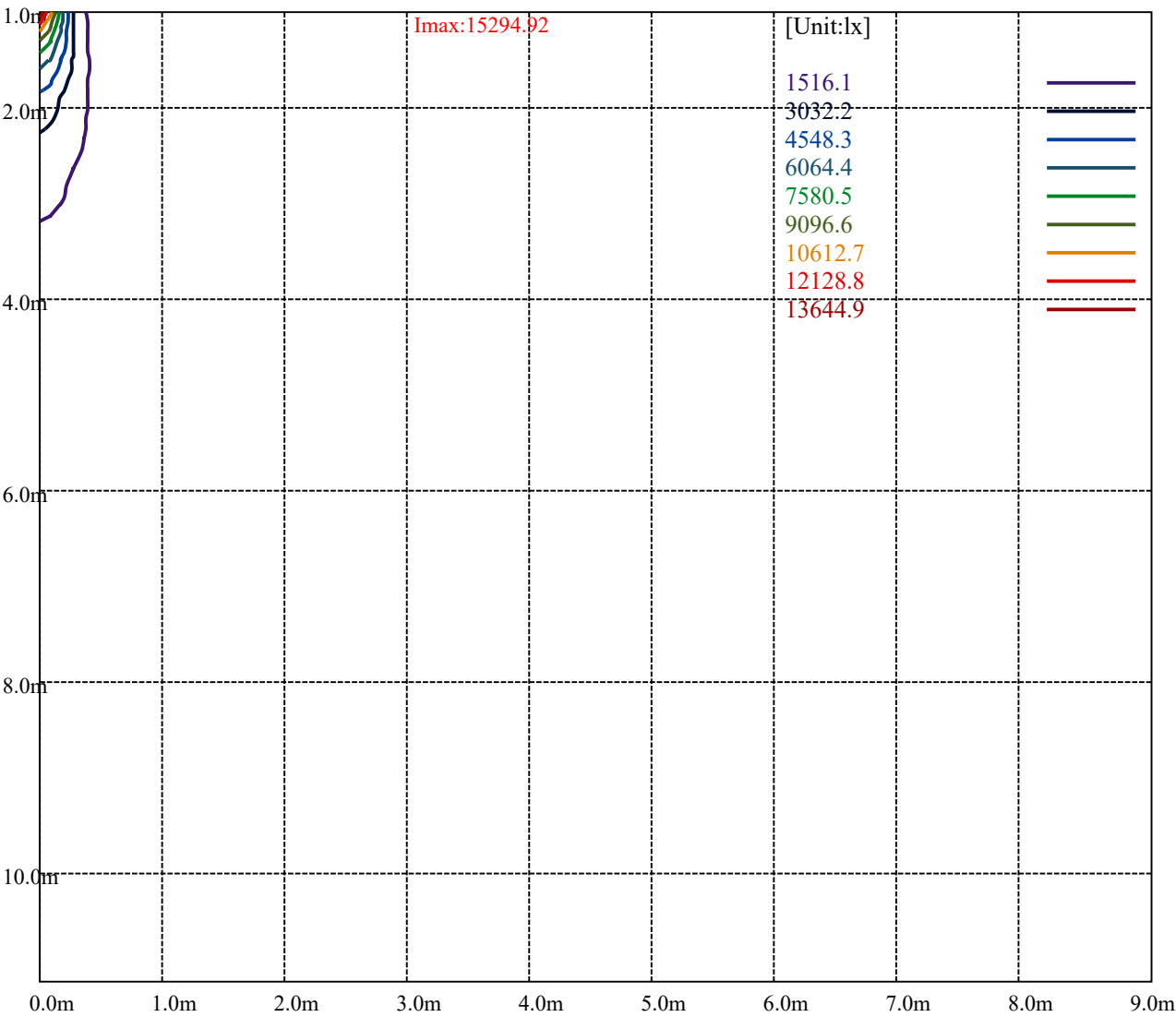
Road

Imax:15294.92

(10%Imax)	1529.42	—
(20%Imax)	3058.85	—
(30%Imax)	4588.27	—
(40%Imax)	6117.69	—
(50%Imax)	7647.12	—
(60%Imax)	9176.54	—
(70%Imax)	10706	—
(80%Imax)	12235.4	—
(90%Imax)	13764.8	—



(10%Emax) 382.355	
(20%Emax) 764.71	
(30%Emax) 1147.065	
(40%Emax) 1529.422	
(50%Emax) 1911.777	
(60%Emax) 2294.133	
(70%Emax) 2676.5	
(80%Emax) 3058.85	
(90%Emax) 3441.2	



Luminance Table

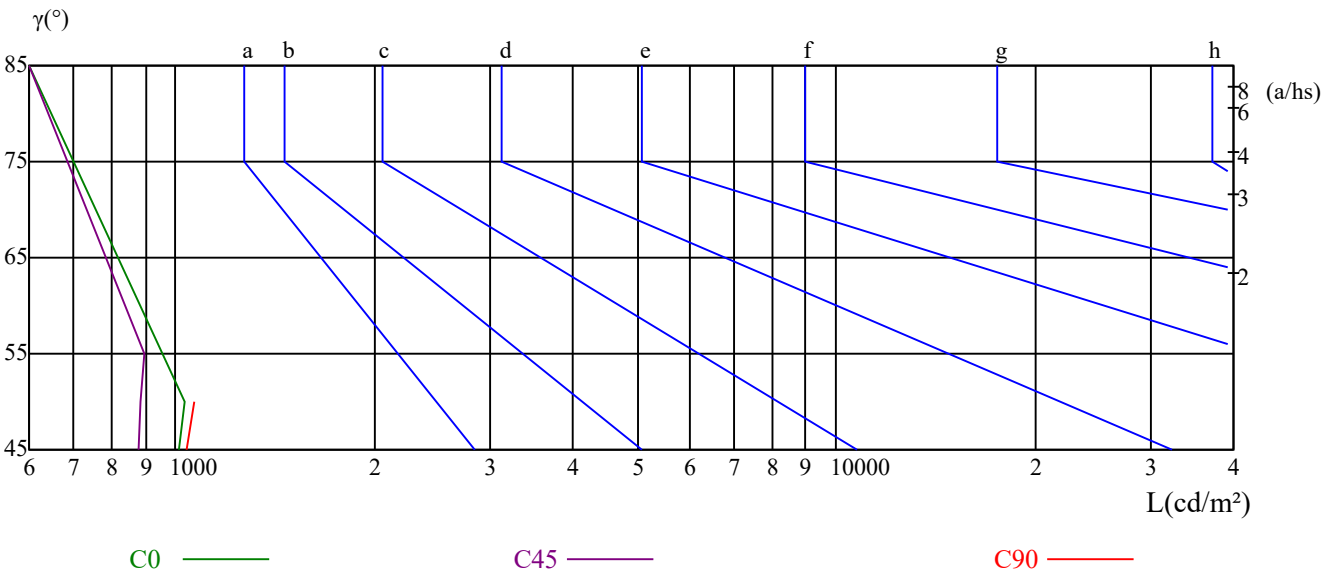
γ	45	50	55	60	65	70	75	80	85
C0	1011	1032	0	0	0	0	0	0	94
C45	881	887	900	0	0	0	0	0	71
C90	1042	1067	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	415	0	208

Glare Table

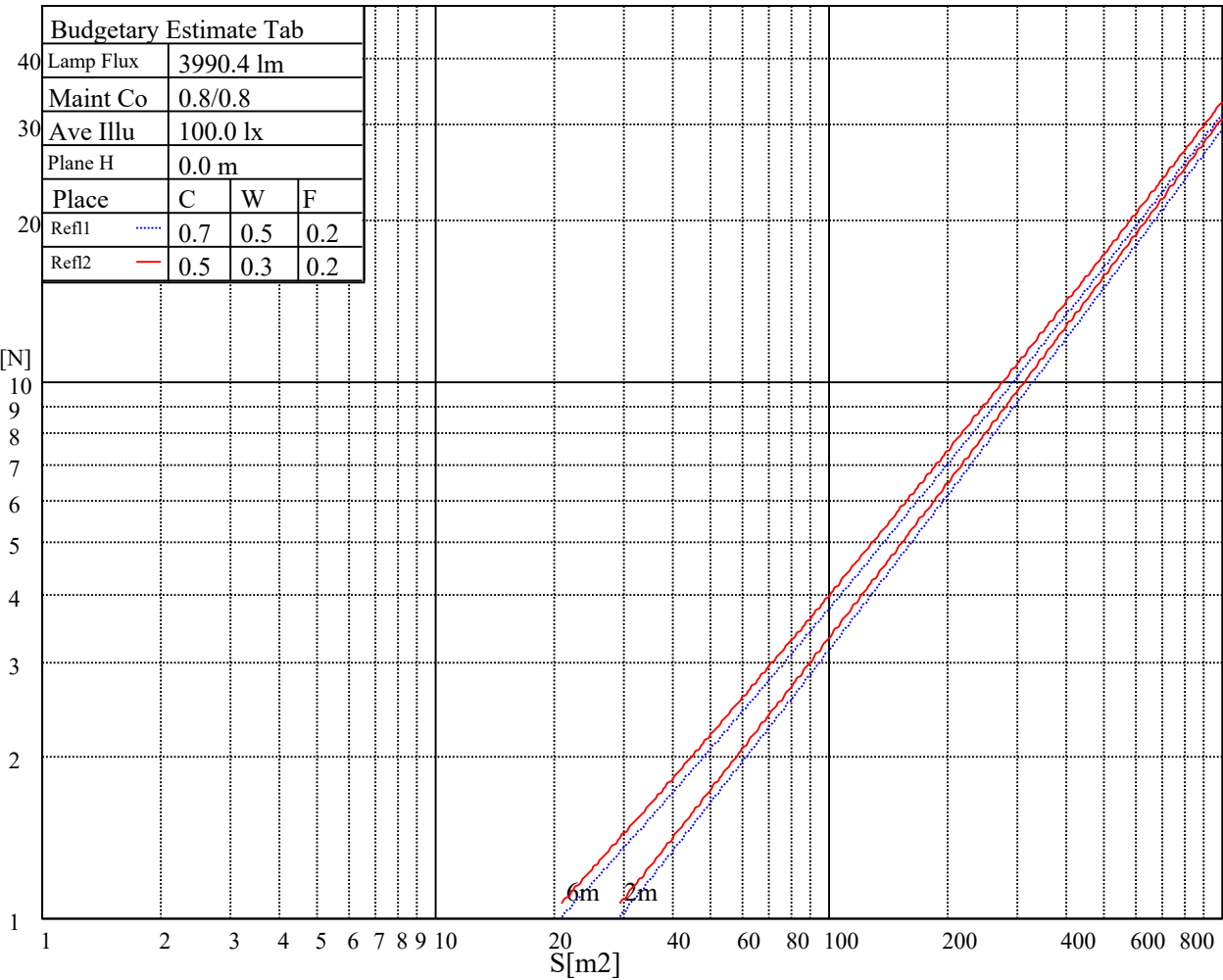
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

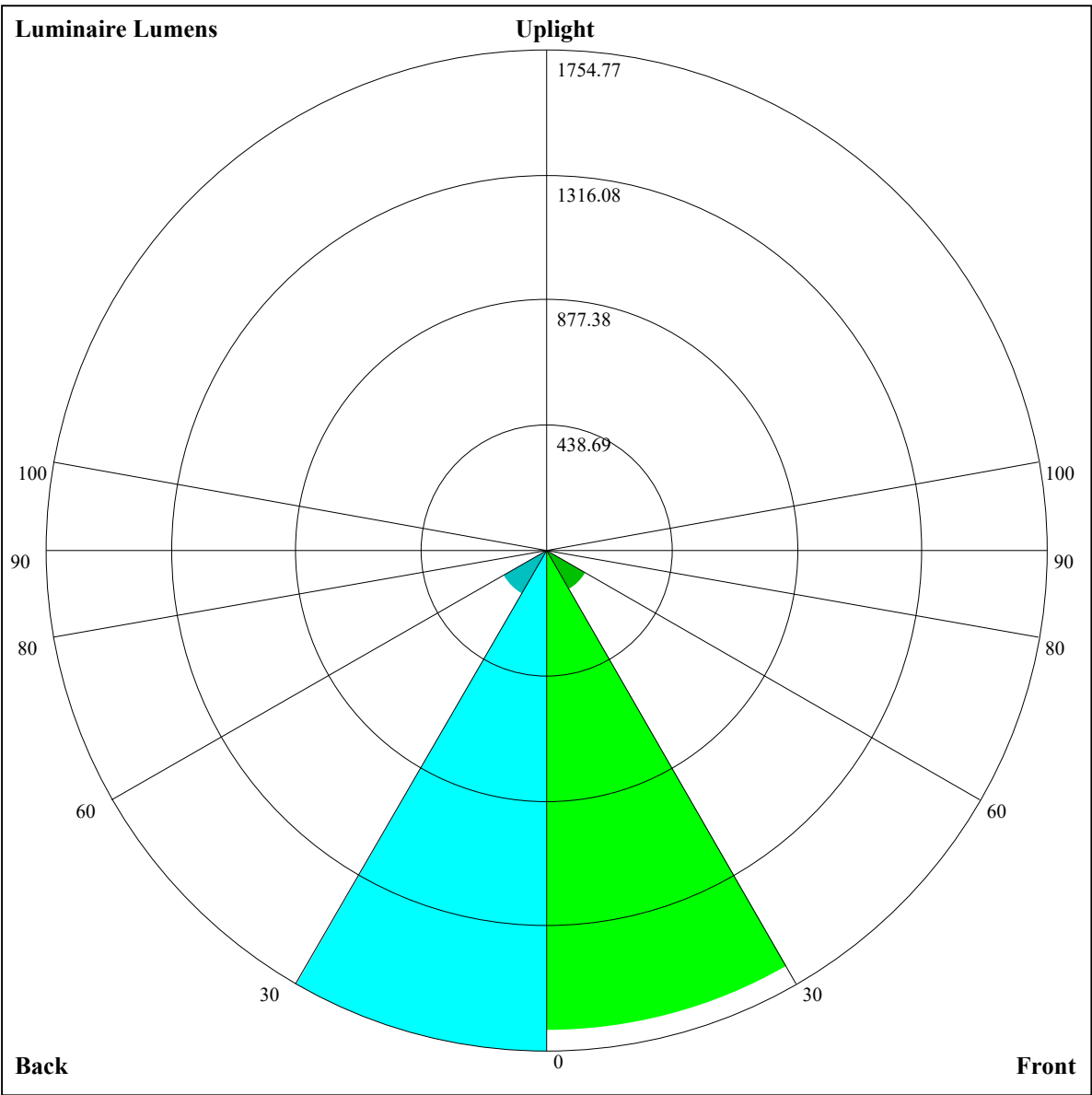


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.33	15.21	14.69	15.52	15.83	14.45	15.33	14.82	15.64	15.96
	3H	14.10	14.88	14.49	15.22	15.57	14.23	15.01	14.61	15.34	15.69
	4H	13.99	14.71	14.39	15.07	15.43	14.11	14.83	14.52	15.19	15.56
	6H	13.89	14.55	14.31	14.93	15.33	14.02	14.67	14.44	15.05	15.45
	8H	13.81	14.44	14.24	14.82	15.23	13.94	14.56	14.36	14.95	15.36
	12H	13.74	14.33	14.17	14.72	15.14	13.86	14.45	14.29	14.85	15.27
4H	2H	13.99	14.71	14.39	15.06	15.43	14.11	14.83	14.52	15.19	15.56
	3H	13.72	14.32	14.15	14.72	15.14	13.85	14.45	14.27	14.84	15.26
	4H	13.63	14.15	14.07	14.58	15.03	13.76	14.27	14.20	14.70	15.15
	6H	13.48	13.94	13.96	14.39	14.85	13.60	14.06	14.08	14.51	14.97
	8H	13.42	13.84	13.90	14.30	14.77	13.54	13.96	14.03	14.42	14.90
	12H	13.36	13.75	13.85	14.20	14.72	13.48	13.87	13.97	14.32	14.85
8H	4H	13.42	13.84	13.90	14.30	14.77	13.54	13.96	14.03	14.42	14.90
	6H	13.25	13.59	13.76	14.07	14.59	13.37	13.71	13.88	14.19	14.71
	8H	13.23	13.51	13.77	14.04	14.53	13.35	13.63	13.89	14.16	14.66
	12H	13.17	13.38	13.72	13.90	14.42	13.29	13.50	13.84	14.02	14.55
12H	4H	13.36	13.75	13.85	14.20	14.72	13.48	13.87	13.97	14.32	14.85
	6H	13.23	13.51	13.77	14.03	14.53	13.35	13.63	13.89	14.16	14.66
	8H	13.17	13.38	13.72	13.90	14.42	13.29	13.50	13.84	14.02	14.55
Variation with the observer position at spacings:											
S = 1.0H		6.4/-23.5					6.4/-23.6				
S = 1.5H		9.2/-24.7					9.2/-24.5				
S = 2.0H		11.2/-25.0					11.2/-24.8				
Standard tables:		BK0					BK0				
Uncorrected UGR		-4.8					-4.9				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.91
2	1.01	0.98	0.96	1.00	0.97	0.95	0.97	0.94	0.93	0.94	0.92	0.91	0.91	0.90	0.89	0.87
3	0.96	0.93	0.90	0.95	0.92	0.89	0.93	0.90	0.88	0.91	0.88	0.86	0.89	0.87	0.85	0.84
4	0.92	0.88	0.85	0.91	0.87	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.86	0.84	0.82	0.81
5	0.88	0.84	0.81	0.87	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.83	0.81	0.79	0.78
6	0.85	0.81	0.77	0.84	0.80	0.77	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
7	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
8	0.79	0.74	0.72	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.76	0.73	0.71	0.70
9	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.65



Luminaire Lumens:

FL=1683.26,FM=159.73,FH=0.71,FVH=0.16

BL=1754.77,BM=177.89,BH=0.72,BVH=0.15

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

Appendix Page: 17 Total:19

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	15161.70	14927.22	14527.55	13978.66	13435.10	12502.53	10628.32	10450.86	10095.42
45.0	15294.92	15236.30	15023.14	14655.44	14143.86	13770.83	13046.08	11921.67	11394.09
90.0	15220.32	14985.84	14607.48	14079.91	13557.67	12657.07	11879.03	10618.73	10261.68
135.0	15284.26	15252.29	15076.43	14719.39	14218.46	13605.63	12859.57	12060.22	11196.92
180.0	15161.70	15284.26	15241.63	15060.45	14687.42	14181.16	13547.01	12806.28	12006.93
225.0	15294.92	15183.01	14943.21	14522.22	13978.66	13312.53	12539.83	10524.40	10166.29
270.0	15220.32	15294.92	15204.33	14980.51	14596.82	14069.25	13408.46	12641.08	11820.41
315.0	15284.26	15167.03	14905.91	14490.24	13930.70	13253.92	12486.54	10409.83	10409.83
360.0	15161.70	14927.22	14527.55	13978.66	13435.10	12502.53	10628.32	10450.86	10095.42

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9191.09	8274.50	7393.08	6566.02	5791.72	5096.82	4472.79	3937.76	3479.46
45.0	10509.48	9614.21	8697.62	7802.35	6933.72	6118.38	5388.31	4738.17	4157.31
90.0	9356.29	8430.64	7528.97	6675.80	5884.97	5163.43	4525.55	3961.21	3481.06
135.0	10312.31	9411.71	8500.45	7967.55	7077.60	5926.54	5468.25	4791.46	4189.29
180.0	11154.29	10280.33	9385.06	8473.80	7589.19	6725.89	5915.88	5462.92	4530.34
225.0	9987.24	9267.82	8368.82	7297.69	6625.71	5843.41	5144.24	4511.16	3955.88
270.0	10962.45	10077.83	9177.23	8281.96	7408.00	6576.68	5798.64	5361.67	4477.05
315.0	10051.72	9158.58	8259.58	7376.03	6553.23	5793.85	5100.01	4479.18	3940.42
360.0	9191.09	8274.50	7393.08	6566.02	5791.72	5096.82	4472.79	3937.76	3479.46

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3236.99	2748.86	2463.76	2318.81	2023.58	1911.14	1756.60	1626.04	1519.99
45.0	3656.39	3224.74	2867.69	2739.80	2470.68	2152.01	1951.64	1790.17	1656.95
90.0	3075.53	2862.37	2445.64	2302.29	2091.79	1834.93	1742.74	1615.38	1517.86
135.0	3667.04	3219.41	2841.05	2718.48	2448.30	2067.28	1880.76	1726.76	1608.45
180.0	3970.80	3661.72	3214.08	2841.05	2713.15	2654.53	2106.18	1916.47	1753.93
225.0	3481.60	3080.32	2739.80	2461.09	2225.55	2023.58	1842.40	1692.12	1575.95
270.0	4141.33	3661.72	3075.53	2867.69	2739.80	2681.18	2121.63	1926.59	1766.19
315.0	3477.87	3088.85	2755.79	2468.02	2233.54	2031.04	1852.52	1756.07	1580.21
360.0	3236.99	2748.86	2463.76	2318.81	2023.58	1911.14	1756.60	1626.04	1519.99

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1423.54	1299.90	1001.48	1001.48	863.08	728.79	597.59	467.14	344.89
45.0	1543.97	1452.85	1340.94	1207.71	1070.76	929.54	793.12	656.16	530.40
90.0	1422.47	1306.83	1020.02	1020.02	881.58	746.17	613.85	482.17	357.52
135.0	1537.04	1409.15	1298.84	1218.37	1081.41	943.39	806.97	668.42	538.39
180.0	1627.10	1526.92	1430.46	1319.62	1187.46	1045.71	907.16	798.98	660.42
225.0	1482.69	1380.37	1307.36	1041.29	1041.29	893.99	755.07	621.20	493.73
270.0	1631.37	1526.92	1428.86	1305.76	1173.07	1029.72	918.35	749.95	642.30
315.0	1522.66	1421.94	1300.44	1034.20	1034.20	895.80	757.04	621.95	490.59
360.0	1423.54	1299.90	1001.48	1001.48	863.08	728.79	597.59	467.14	344.89

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	278.28	139.94	91.07	33.52	14.12	12.52	9.49	7.67	6.82
45.0	407.30	290.06	290.06	94.43	44.18	18.65	14.12	10.76	8.42
90.0	291.55	151.29	100.35	39.38	17.05	14.07	10.60	7.67	6.77
135.0	413.16	299.65	299.65	101.68	38.10	17.05	13.86	10.07	7.67
180.0	529.86	408.89	294.32	294.32	101.73	38.37	15.77	12.74	9.27
225.0	371.59	261.71	163.17	82.71	30.43	14.92	11.72	8.74	7.35
270.0	511.21	390.78	277.27	277.27	90.01	33.57	14.49	11.83	8.90
315.0	368.39	254.30	155.29	87.29	26.43	13.75	11.67	8.95	7.25
360.0	278.28	139.94	91.07	33.52	14.12	12.52	9.49	7.67	6.82

Intensity data(cd)

C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	6.02	5.28	4.58	4.16	3.73	3.30	2.98	2.77	2.50
45.0	7.41	6.55	5.92	5.17	4.58	4.21	3.84	3.46	3.14
90.0	6.02	5.38	4.69	4.16	3.84	3.52	3.14	2.88	2.56
135.0	6.82	5.92	5.33	4.69	4.21	3.78	3.41	3.14	2.88
180.0	7.09	6.29	5.60	4.96	4.32	3.89	3.68	3.25	3.04
225.0	6.55	5.86	5.17	4.53	4.21	3.84	3.41	3.09	2.88
270.0	7.41	6.55	6.13	5.12	4.42	4.16	3.68	3.46	3.09
315.0	6.55	5.76	4.96	4.37	3.89	3.52	3.20	2.88	2.61
360.0	6.02	5.28	4.58	4.16	3.73	3.30	2.98	2.77	2.50
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	2.29	2.08	1.92	1.76	1.55	1.49	1.33	1.17	1.17
45.0	2.88	2.66	2.50	2.13	2.03	1.92	1.71	1.60	1.44
90.0	2.40	2.18	1.97	1.92	1.65	1.49	1.44	1.23	1.17
135.0	2.61	2.34	2.18	2.03	1.87	1.71	1.55	1.44	1.23
180.0	2.72	2.50	2.29	2.13	1.87	1.71	1.60	1.44	1.28
225.0	2.61	2.34	2.18	2.03	1.81	1.71	1.49	1.33	1.23
270.0	2.82	2.56	2.34	2.13	1.92	1.76	1.60	1.49	1.28
315.0	2.34	2.18	2.03	1.76	1.60	1.49	1.33	1.17	1.12
360.0	2.29	2.08	1.92	1.76	1.55	1.49	1.33	1.17	1.17
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	1.07	0.96	0.85	0.85	0.75	0.69	0.59	0.59	0.53
45.0	1.33	1.17	1.12	1.01	0.91	0.80	0.80	0.75	0.69
90.0	1.07	0.96	0.91	0.80	0.75	0.69	0.69	0.53	0.53
135.0	1.23	1.07	1.01	0.96	0.80	0.75	0.69	0.69	0.59
180.0	1.17	1.07	1.01	0.96	0.80	0.75	0.75	0.64	0.59
225.0	1.17	1.07	0.91	0.85	0.80	0.75	0.64	0.59	0.53
270.0	1.23	1.12	1.01	0.91	0.85	0.75	0.69	0.64	0.59
315.0	1.01	0.96	0.80	0.80	0.69	0.64	0.59	0.53	0.48
360.0	1.07	0.96	0.85	0.85	0.75	0.69	0.59	0.59	0.53
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	0.48	0.48	0.43	0.43	0.43	0.43	0.37	0.32	0.37
45.0	0.59	0.53	0.53	0.48	0.43	0.43	0.37	0.37	0.43
90.0	0.48	0.43	0.43	0.37	0.37	0.37	0.32	0.32	0.32
135.0	0.53	0.53	0.48	0.43	0.43	0.43	0.37	0.37	0.32
180.0	0.53	0.48	0.48	0.43	0.37	0.32	0.37	0.32	0.32
225.0	0.43	0.48	0.43	0.37	0.32	0.37	0.37	0.32	0.21
270.0	0.48	0.48	0.43	0.43	0.37	0.32	0.32	0.32	0.32
315.0	0.43	0.43	0.43	0.32	0.37	0.37	0.27	0.27	0.27
360.0	0.48	0.48	0.43	0.43	0.43	0.43	0.37	0.32	0.37
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.32	0.32	0.32	0.32	0.32	0.32	0.37	0.37	0.32
45.0	0.37	0.32	0.37	0.32	0.32	0.27	0.32	0.27	0.32
90.0	0.32	0.32	0.27	0.27	0.27	0.32	0.32	0.32	0.32
135.0	0.32	0.37	0.32	0.32	0.32	0.32	0.32	0.32	0.27
180.0	0.27	0.32	0.27	0.27	0.21	0.21	0.21	0.21	0.21
225.0	0.27	0.21	0.21	0.21	0.27	0.21	0.21	0.21	0.21
270.0	0.27	0.27	0.27	0.27	0.27	0.27	0.21	0.21	0.21
315.0	0.27	0.21	0.27	0.21	0.21	0.27	0.16	0.21	0.21
360.0	0.32	0.32	0.32	0.32	0.32	0.32	0.37	0.37	0.32

Intensity data(cd)

C/ γ (°)	90.0
0.0	0.32
45.0	0.27
90.0	0.27
135.0	0.32
180.0	0.21
225.0	0.21
270.0	0.16
315.0	0.21
360.0	0.32