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NT

Client:

LumCAT: 3-2832-L

Luminaire: 92.70.411.00

Report No: 2024327-B013

Ballast type: AC

Test No: 2024327-C013

Voltage(V): 34.110

LampCAT: LUMILEDS LUXEON 1208

Current(A): 0.576

Lamp flux(lm): 2888.0

Power (W): 19.647

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2442.18, Efficiency(%): 84.56% , Luminous Efficacy(lm/W): 124.30

Central intensity(cd): 11934.380, Maximum intensity(cd): 11934.380

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=17.4

[C90/270]Total=17.4

Field angle(10%Imax): [C0/180]Total=49.6

[C90/270]Total=49.6

Maximum s/h(1/2): C0_180=0.30 C90_270=0.30

Maximum s/h(1/4): C0_180=0.34 C90_270=0.34

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.56%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.993%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11934.376	0.000	0	0.00%	0.00%
1.0	11860.931	11.386	11.386	0.39%	0.47%
2.0	11620.988	33.703	45.089	1.17%	1.85%
3.0	11120.987	54.391	99.48	1.88%	4.07%
4.0	10330.202	71.804	171.284	2.49%	7.01%
5.0	9483.600	85.238	256.522	2.95%	10.50%
6.0	8537.730	94.707	351.229	3.28%	14.38%
7.0	7486.959	99.465	450.694	3.44%	18.45%
8.0	6583.225	100.698	551.392	3.49%	22.58%
9.0	5728.724	99.782	651.173	3.46%	26.66%
10.0	4977.075	96.884	748.057	3.35%	30.63%
11.0	4390.680	93.603	841.66	3.24%	34.46%
12.0	3889.508	90.514	932.174	3.13%	38.17%
13.0	3482.557	87.488	1019.662	3.03%	41.75%
14.0	3137.713	84.739	1104.401	2.93%	45.22%
15.0	2897.332	82.852	1187.253	2.87%	48.61%
16.0	2731.055	82.472	1269.725	2.86%	51.99%
17.0	2431.442	80.394	1350.119	2.78%	55.28%
18.0	2167.732	75.830	1425.949	2.63%	58.39%
19.0	1997.724	72.470	1498.419	2.51%	61.36%
20.0	1834.081	70.133	1568.552	2.43%	64.23%
21.0	1685.433	67.582	1636.134	2.34%	66.99%
22.0	1550.320	65.024	1701.158	2.25%	69.66%
23.0	1381.497	61.517	1762.675	2.13%	72.18%
24.0	1255.922	57.663	1820.338	2.00%	74.54%
25.0	1175.373	55.282	1875.621	1.91%	76.80%
26.0	1075.395	53.130	1928.75	1.84%	78.98%
27.0	994.151	50.632	1979.382	1.75%	81.05%
28.0	929.403	48.700	2028.083	1.69%	83.04%
29.0	868.503	47.038	2075.121	1.63%	84.97%
30.0	781.034	44.537	2119.658	1.54%	86.79%
31.0	681.714	40.706	2160.364	1.41%	88.46%
32.0	576.681	36.052	2196.416	1.25%	89.94%
33.0	470.894	30.862	2227.278	1.07%	91.20%
34.0	360.755	25.168	2252.446	0.87%	92.23%
35.0	278.567	19.855	2272.301	0.69%	93.04%
36.0	215.399	15.728	2288.029	0.54%	93.69%
37.0	134.565	11.414	2299.443	0.40%	94.16%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	93.219	7.603	2307.046	0.26%	94.47%
39.0	82.985	6.014	2313.06	0.21%	94.71%
40.0	76.803	5.573	2318.633	0.19%	94.94%
41.0	71.258	5.272	2323.905	0.18%	95.16%
42.0	66.306	4.998	2328.903	0.17%	95.36%
43.0	61.800	4.745	2333.649	0.16%	95.56%
44.0	57.286	4.495	2338.143	0.16%	95.74%
45.0	53.804	4.269	2342.413	0.15%	95.91%
46.0	50.666	4.086	2346.498	0.14%	96.08%
47.0	47.564	3.907	2350.405	0.14%	96.24%
48.0	45.135	3.747	2354.153	0.13%	96.40%
49.0	42.948	3.617	2357.77	0.13%	96.54%
50.0	41.214	3.509	2361.279	0.12%	96.69%
51.0	39.590	3.419	2364.698	0.12%	96.83%
52.0	38.486	3.350	2368.048	0.12%	96.96%
53.0	37.447	3.303	2371.351	0.11%	97.10%
54.0	36.672	3.267	2374.618	0.11%	97.23%
55.0	35.852	3.237	2377.855	0.11%	97.37%
56.0	34.975	3.200	2381.056	0.11%	97.50%
57.0	33.906	3.149	2384.205	0.11%	97.63%
58.0	32.758	3.083	2387.288	0.11%	97.75%
59.0	31.361	2.998	2390.285	0.10%	97.88%
60.0	29.766	2.888	2393.173	0.10%	97.99%
61.0	27.879	2.751	2395.924	0.10%	98.11%
62.0	26.174	2.605	2398.529	0.09%	98.21%
63.0	24.177	2.449	2400.978	0.08%	98.31%
64.0	22.612	2.296	2403.274	0.08%	98.41%
65.0	20.988	2.158	2405.431	0.07%	98.50%
66.0	19.664	2.028	2407.46	0.07%	98.58%
67.0	18.471	1.918	2409.377	0.07%	98.66%
68.0	17.513	1.823	2411.2	0.06%	98.73%
69.0	16.854	1.753	2412.953	0.06%	98.80%
70.0	16.233	1.699	2414.652	0.06%	98.87%
71.0	15.757	1.653	2416.306	0.06%	98.94%
72.0	15.369	1.618	2417.924	0.06%	99.01%
73.0	14.982	1.587	2419.511	0.05%	99.07%
74.0	14.616	1.556	2421.068	0.05%	99.14%
75.0	14.309	1.528	2422.596	0.05%	99.20%

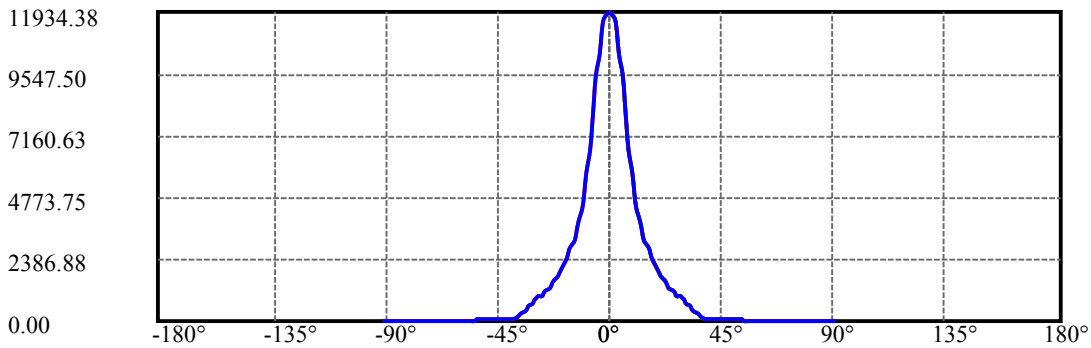
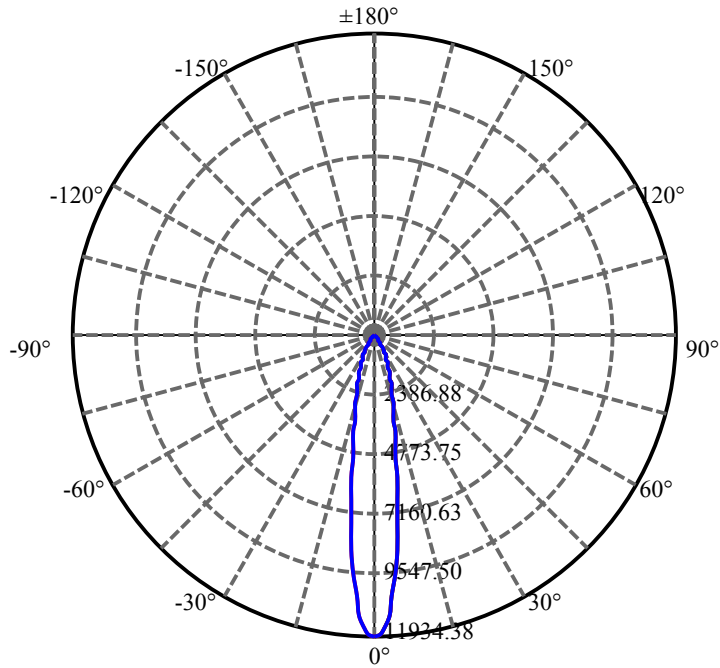
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.980	1.502	2424.097	0.05%	99.26%
77.0	13.650	1.473	2425.571	0.05%	99.32%
78.0	13.372	1.447	2427.017	0.05%	99.38%
79.0	13.116	1.423	2428.44	0.05%	99.44%
80.0	12.897	1.402	2429.843	0.05%	99.49%
81.0	12.612	1.379	2431.222	0.05%	99.55%
82.0	12.158	1.343	2432.565	0.05%	99.61%
83.0	11.719	1.298	2433.863	0.04%	99.66%
84.0	11.427	1.261	2435.124	0.04%	99.71%
85.0	11.163	1.233	2436.357	0.04%	99.76%
86.0	10.893	1.206	2437.563	0.04%	99.81%
87.0	10.666	1.180	2438.743	0.04%	99.86%
88.0	10.490	1.159	2439.902	0.04%	99.91%
89.0	10.358	1.143	2441.044	0.04%	99.95%
90.0	10.344	1.135	2442.179	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2119.66	73.40%	86.79%
0-40	2318.63	80.29%	94.94%
0-60	2393.17	82.87%	97.99%
0-90	2441.04	84.52%	99.95%
0-120	2441.04	84.52%	99.95%
0-180	2442.18	84.56%	100.00%
60-90	47.87	1.66%	1.96%
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%
0-26.49	1953.74	67.65%	80.00%

ZONAL LUMEN SUMMARY

0-10	748.06
10-20	820.49
20-30	551.11
30-40	198.97
40-50	42.65
50-60	31.89
60-70	21.48
70-80	15.19
80-90	11.20
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



C0(Max): —————

C0/C180: —————

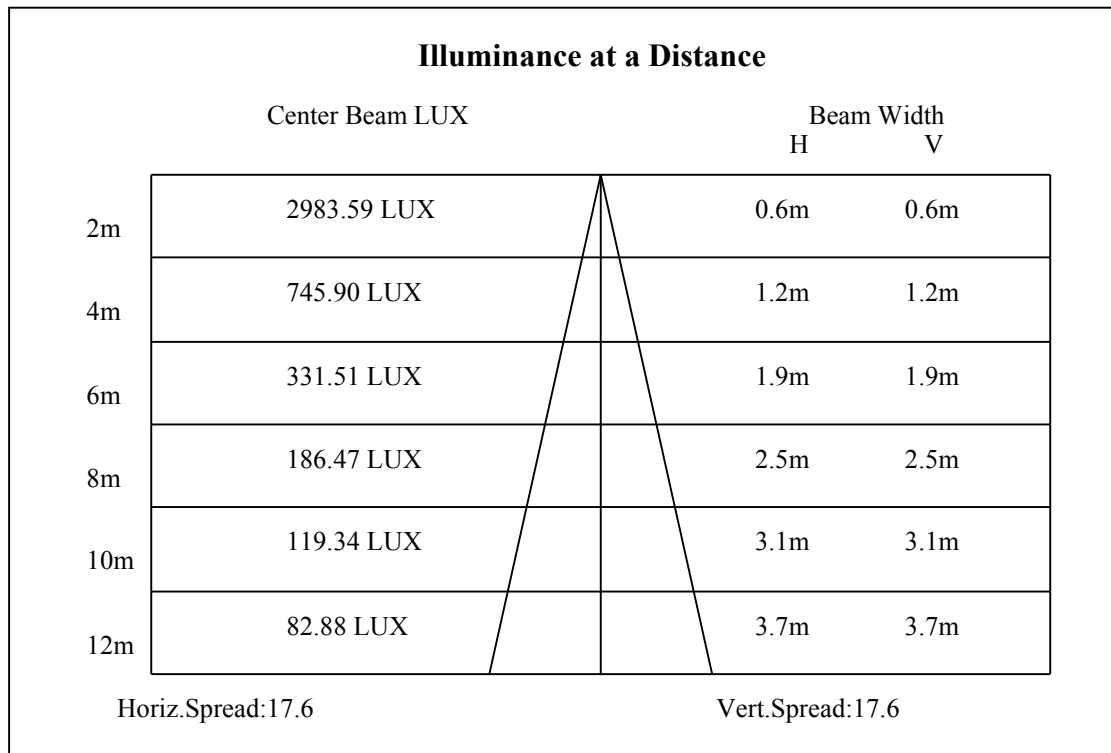
C90/C270: —————

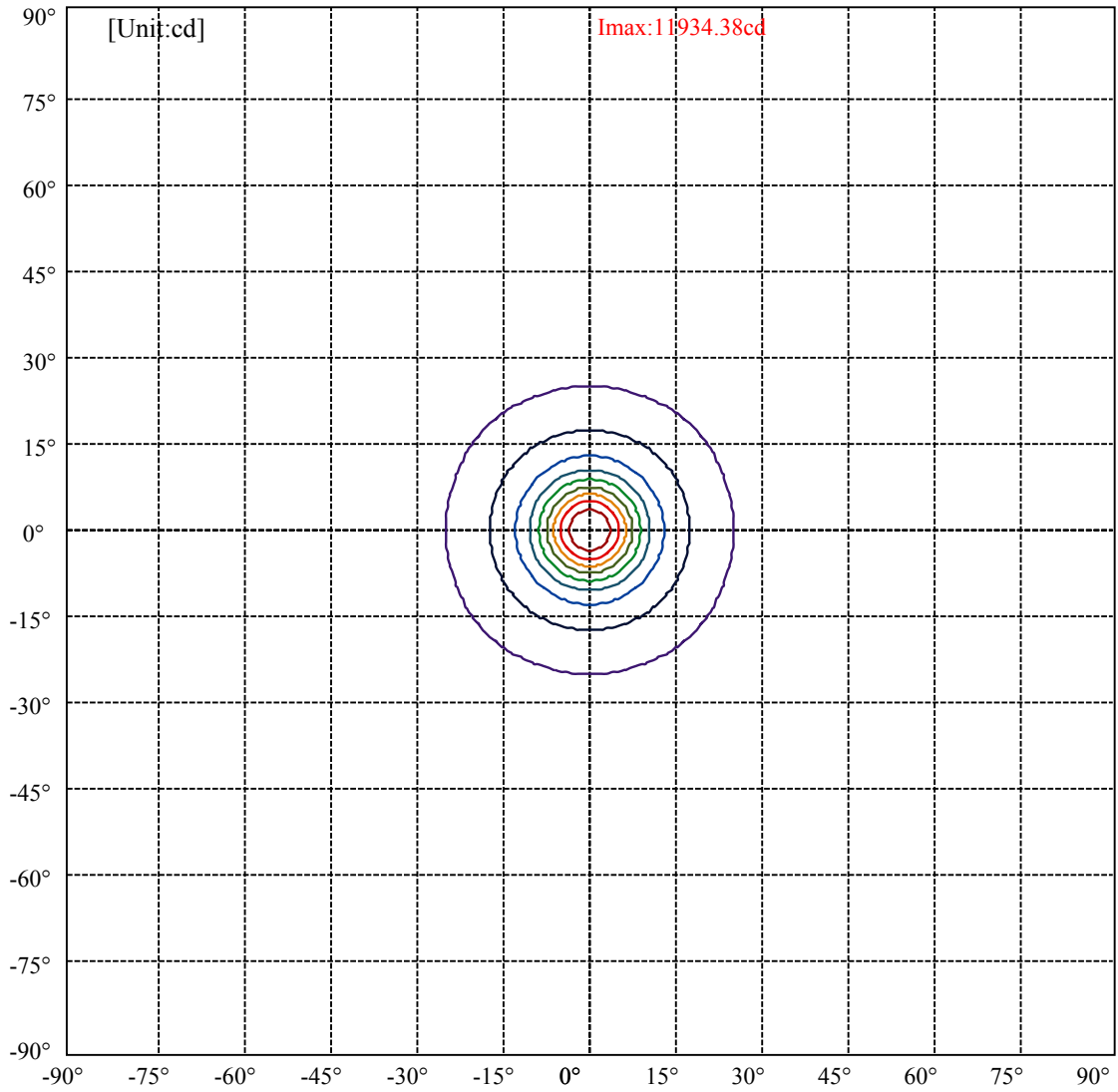
Field angle(10%Imax):C0/180Left:24.8 Right:24.8

:C90/270Left:24.8 Right:24.8

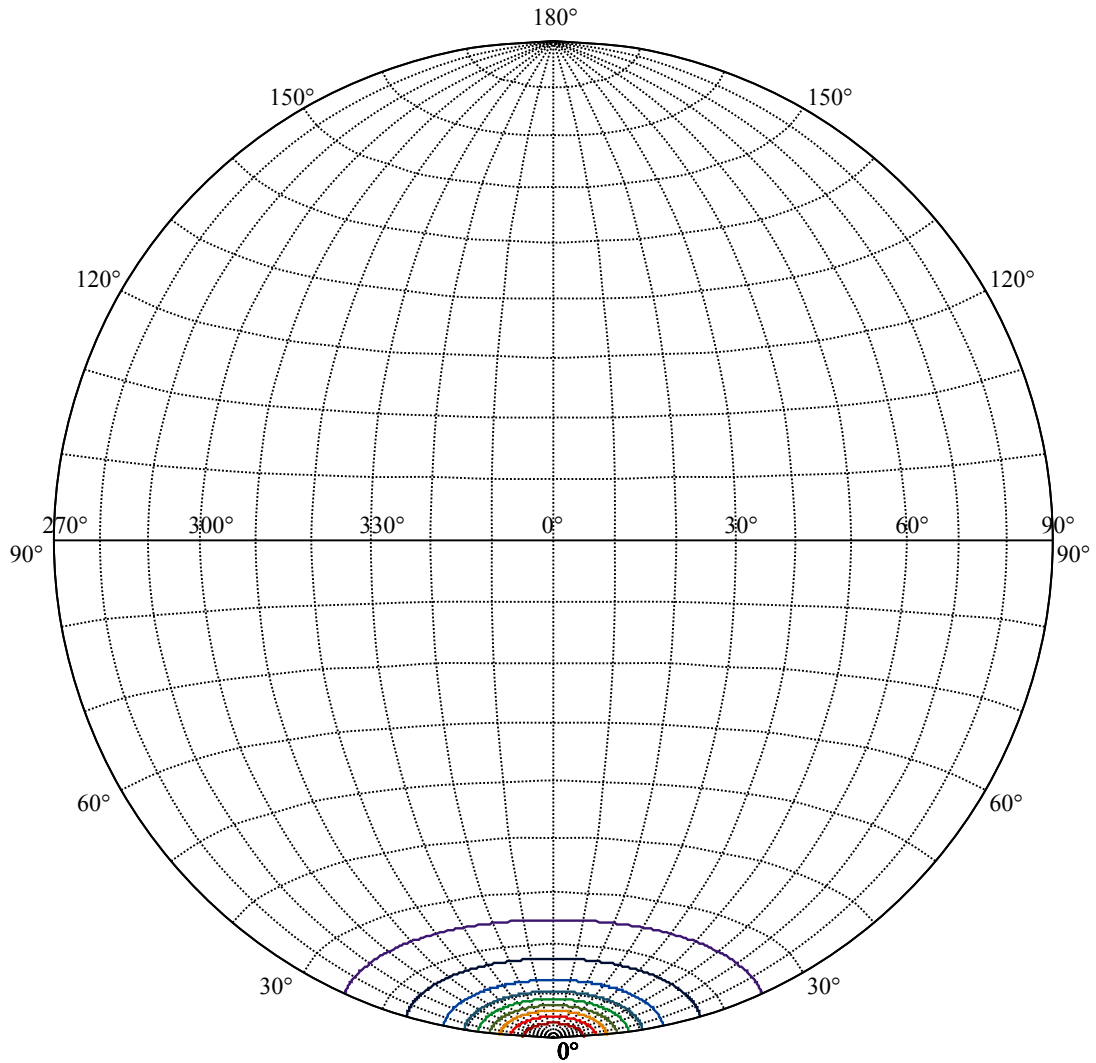
Beam Angle(50%Imax):C0/180Left:8.7 Right:8.7

:C90/270Left:8.7 Right:8.7





(10%Imax) 1193.44	—
(20%Imax) 2386.88	—
(30%Imax) 3580.31	—
(40%Imax) 4773.75	—
(50%Imax) 5967.19	—
(60%Imax) 7160.63	—
(70%Imax) 8354.06	—
(80%Imax) 9547.5	—
(90%Imax) 10740.9	—



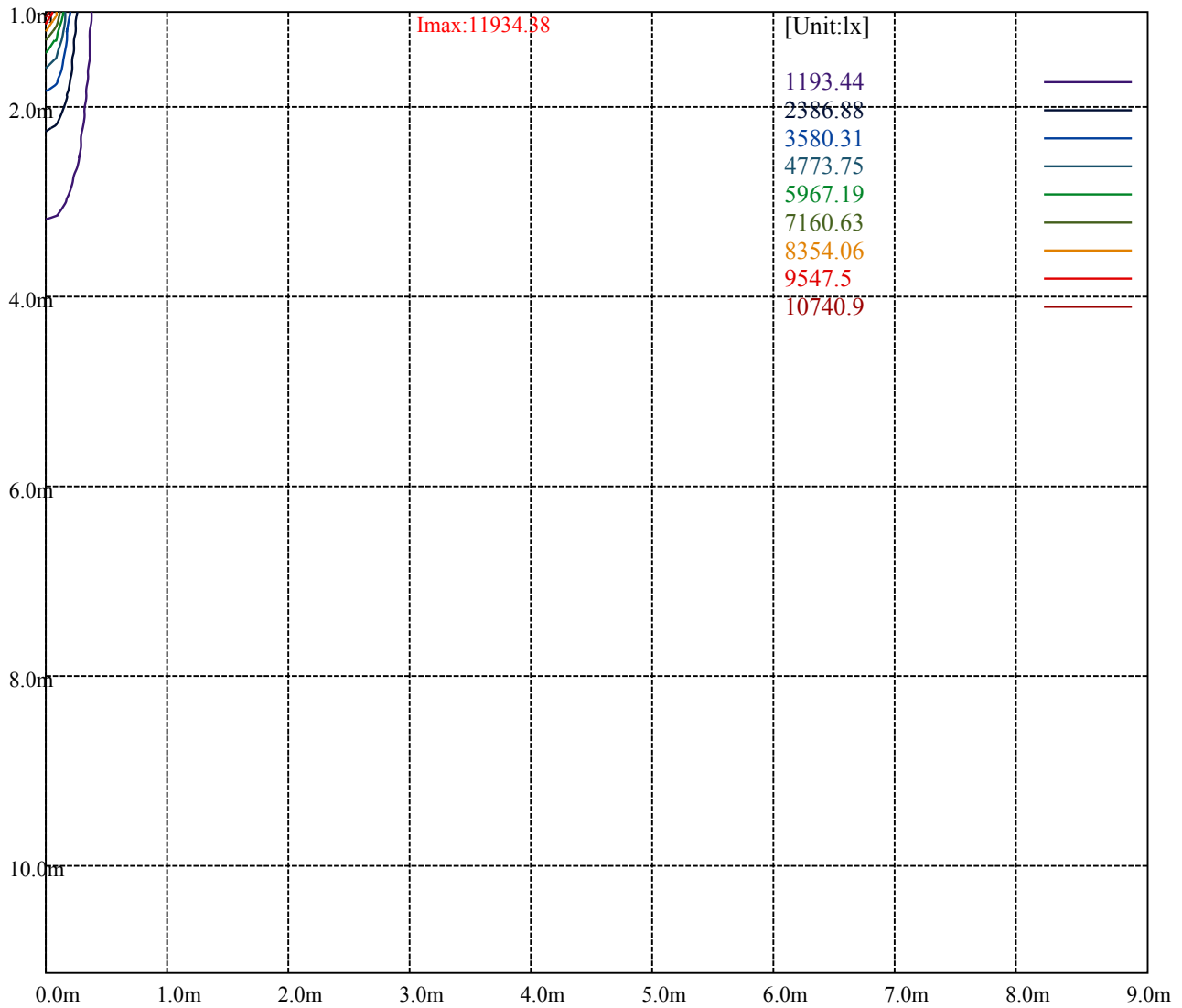
House

[Unit:cd]

Road

Imax:11934.38

(10%Imax)	1193.44	—
(20%Imax)	2386.88	—
(30%Imax)	3580.31	—
(40%Imax)	4773.75	—
(50%Imax)	5967.19	—
(60%Imax)	7160.63	—
(70%Imax)	8354.06	—
(80%Imax)	9547.5	—
(90%Imax)	10740.9	—



Luminance Table

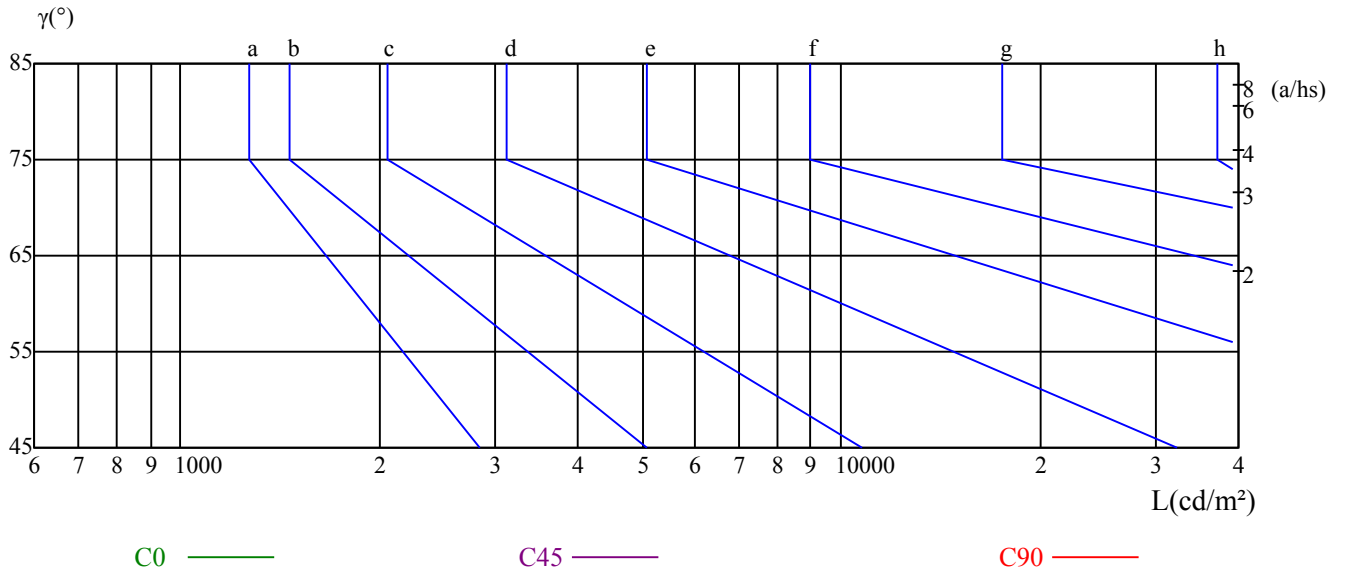
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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	0	0	0

Glare Table

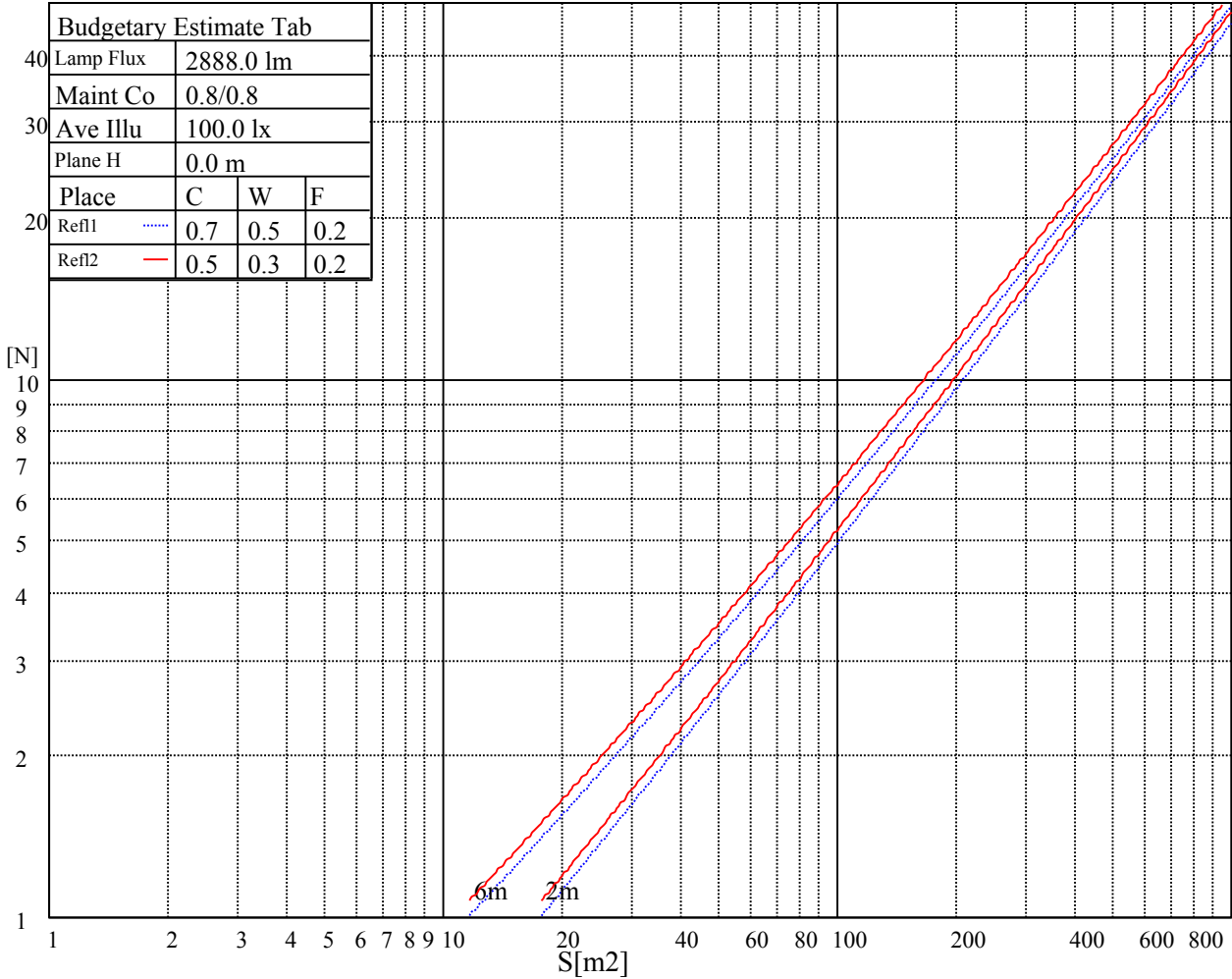
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

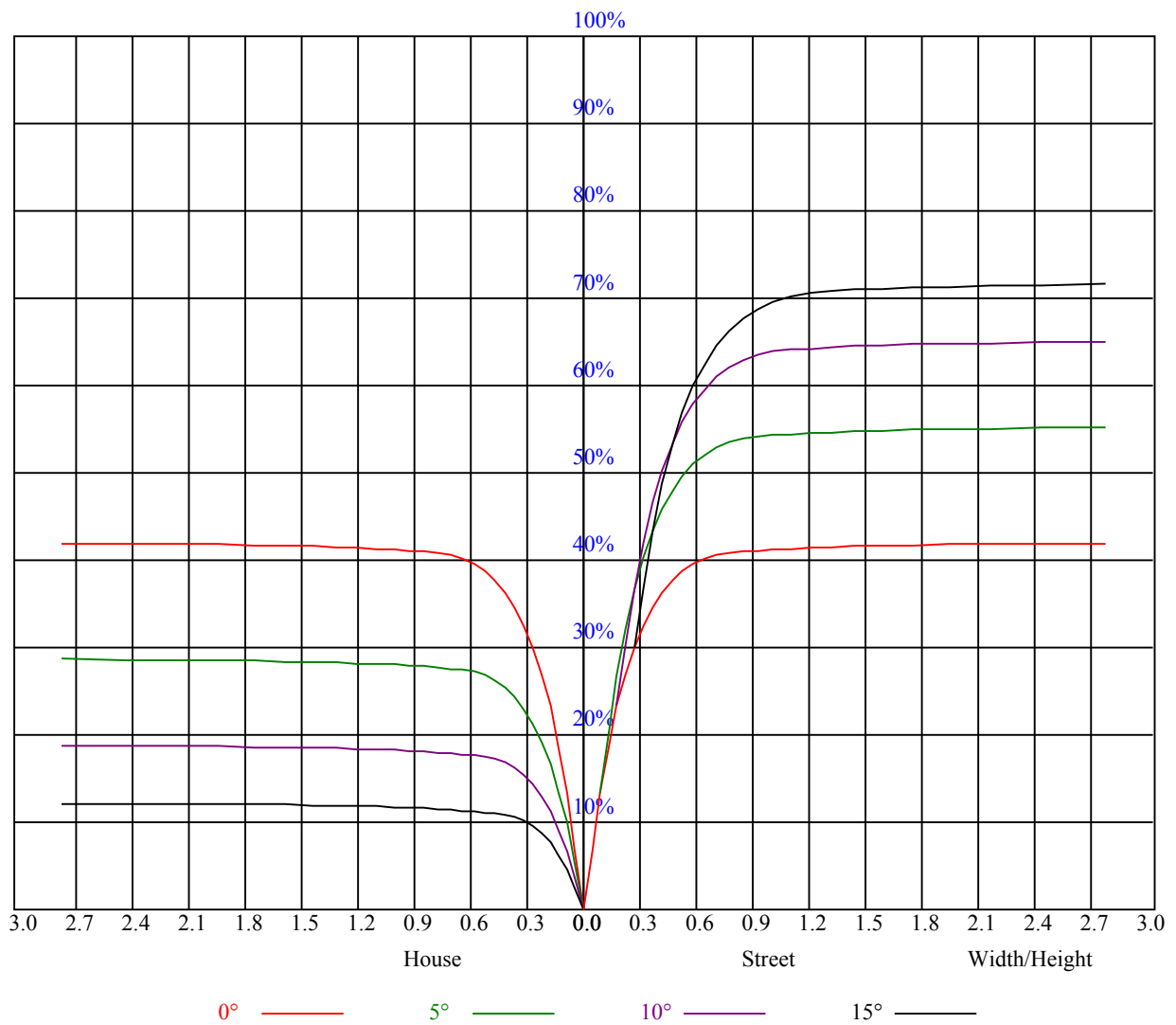


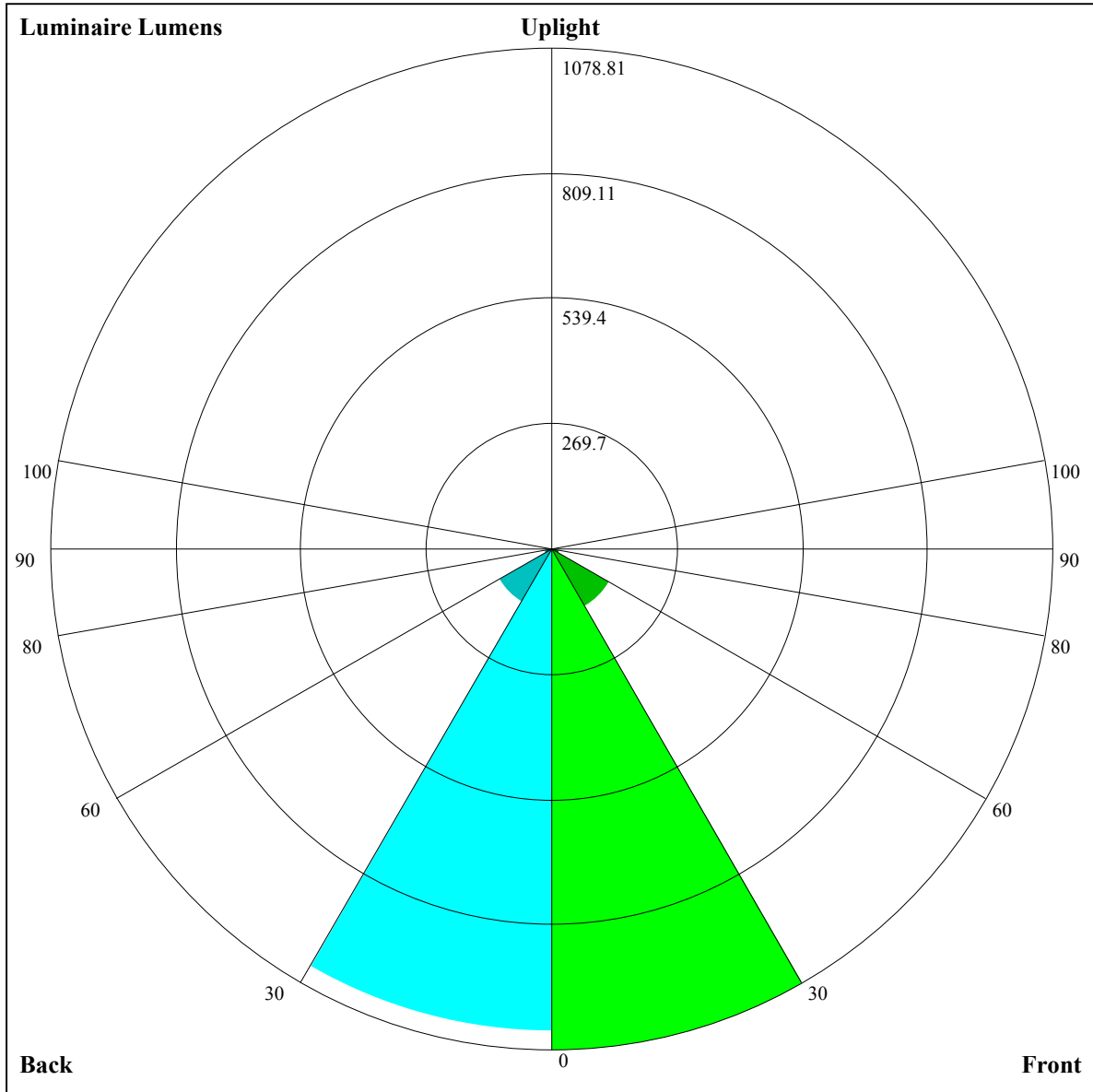
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字		
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

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	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	1.01	1.01	1.01	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.94	0.93	0.91	0.93	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	0.76
3	0.85	0.81	0.78	0.84	0.80	0.78	0.81	0.79	0.76	0.79	0.77	0.75	0.78	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.67
6	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
7	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.62	0.59	0.57	0.56





Luminaire Lumens:

FL=1078.81,FM=143.07,FH=18.56,FVH=6.18

BL=1037.72,BM=132.58,BH=18.13,BVH=6.16

UL=0,UH=0

BUG Rating:B3-U0-G0

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	12228.86	11593.95	11593.95	11308.36	10614.87	9591.90	8711.13	7574.63	6676.89
45.0	11662.42	12205.45	12217.16	11889.43	11391.99	10718.98	9911.37	8805.30	7898.20
90.0	12199.60	11654.23	11654.23	11236.38	10345.08	9497.09	8595.84	7449.97	6561.60
135.0	11646.62	12146.93	11947.95	11544.15	10754.09	9975.75	9103.76	7956.72	7067.18
180.0	12228.86	12070.85	11573.41	10964.78	10227.39	9384.67	8243.48	7318.82	6435.13
225.0	11662.42	11527.82	10900.46	10134.99	9065.78	8141.71	7207.10	6106.30	5325.02
270.0	12199.60	12041.59	11696.31	11152.05	10274.21	9449.04	8553.65	7623.14	6517.07
315.0	11646.62	11646.62	11384.44	10737.77	9968.20	9109.67	7975.50	7060.80	6184.72
360.0	12228.86	11593.95	11593.95	11308.36	10614.87	9591.90	8711.13	7574.63	6676.89
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5838.26	5109.66	4511.56	3923.41	3540.67	3212.36	2926.77	2618.94	2401.82
45.0	7002.80	6142.52	5370.02	4597.53	4105.94	3596.79	3257.36	2964.75	2964.75
90.0	5741.70	4879.08	4330.72	3877.76	3411.34	3095.90	2824.94	2581.49	2321.06
135.0	6007.92	5270.54	4667.75	4059.12	3661.17	3321.74	3023.27	2953.05	2684.49
180.0	5639.23	4802.36	4275.65	3848.44	3403.67	3099.35	2970.60	2970.60	2350.91
225.0	4680.10	4176.22	3672.93	3342.28	3045.57	2740.67	2520.04	2324.57	2101.02
270.0	5709.46	4843.32	4304.92	3860.14	3409.52	3105.20	2970.60	2970.60	2356.76
315.0	5210.32	4592.90	3991.88	3607.39	3282.59	2929.69	2685.07	2464.44	2270.73
360.0	5838.26	5109.66	4511.56	3923.41	3540.67	3212.36	2926.77	2618.94	2401.82
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2214.55	1999.77	1850.54	1682.00	1560.85	1443.81	1157.69	1157.69	1077.69
45.0	2432.84	2237.37	2020.26	1864.59	1728.23	1604.16	1460.19	1344.91	1229.62
90.0	2139.64	1975.78	1827.72	1666.19	1544.47	1316.23	1166.00	1166.00	1065.11
135.0	2284.78	2109.79	1913.16	1772.12	1642.79	1517.55	1370.07	1252.44	1107.89
180.0	2115.65	1961.15	1820.11	1684.92	1557.93	1409.28	1284.63	1168.75	1066.34
225.0	1940.08	1794.36	1630.50	1510.52	1311.55	1158.86	1130.77	1034.44	966.21
270.0	2168.32	2012.06	1857.56	1677.90	1553.83	1439.71	1315.64	1174.02	1069.26
315.0	2046.01	1891.51	1752.81	1625.23	1502.92	1162.37	1162.37	1104.73	1021.04
360.0	2214.55	1999.77	1850.54	1682.00	1560.85	1443.81	1157.69	1157.69	1077.69
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	999.86	932.44	886.56	813.17	724.68	600.56	496.80	391.75	293.43
45.0	1110.23	1006.65	946.37	900.72	820.54	734.52	637.37	509.20	406.79
90.0	977.15	928.75	876.55	775.01	681.85	584.70	479.65	351.54	255.74
135.0	1024.79	965.09	902.48	827.57	736.86	642.64	517.40	412.64	313.74
180.0	981.48	933.49	873.80	762.02	665.46	539.05	431.95	331.88	308.47
225.0	902.83	837.93	752.31	652.88	522.31	415.74	318.30	231.46	144.61
270.0	994.94	928.23	877.90	773.73	677.75	575.92	472.34	342.42	297.35
315.0	961.93	902.65	832.07	743.18	624.26	520.32	413.34	315.14	208.40
360.0	999.86	932.44	886.56	813.17	724.68	600.56	496.80	391.75	293.43
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	188.38	122.78	88.90	81.81	76.43	70.93	66.01	62.03	57.47
45.0	304.96	304.96	123.25	91.41	81.35	75.73	71.28	66.31	61.33
90.0	174.16	114.65	90.24	83.28	78.01	71.75	66.66	61.21	57.47
135.0	313.74	130.86	94.86	85.33	79.06	73.09	68.00	62.62	58.46
180.0	203.66	102.47	88.90	82.58	76.31	71.05	65.84	61.39	56.47
225.0	102.59	86.96	80.59	75.90	69.64	64.84	60.51	56.83	52.49
270.0	297.35	116.40	93.23	85.91	80.29	73.91	68.71	64.37	59.11
315.0	138.35	97.44	85.79	77.66	73.33	68.76	63.44	59.63	55.48
360.0	188.38	122.78	88.90	81.81	76.43	70.93	66.01	62.03	57.47

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	54.25	51.21	48.52	46.06	43.37	41.73	39.97	38.98	37.86
45.0	57.47	54.37	51.15	47.81	45.41	43.25	41.08	39.62	38.39
90.0	53.72	50.56	46.82	44.65	42.55	40.97	39.15	38.27	37.28
135.0	55.07	50.86	48.05	45.76	43.60	41.55	40.03	38.86	37.86
180.0	52.90	50.04	46.53	44.42	41.96	40.61	39.15	38.16	36.93
225.0	49.69	46.88	44.89	42.25	40.67	39.27	38.04	37.04	36.17
270.0	55.30	52.03	48.34	46.00	43.72	41.55	39.91	38.86	37.81
315.0	52.03	49.39	46.23	44.13	42.31	40.79	39.39	38.10	37.28
360.0	54.25	51.21	48.52	46.06	43.37	41.73	39.97	38.98	37.86
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.16	36.40	35.82	34.65	33.30	31.89	30.49	28.97	26.80
45.0	37.28	36.69	35.93	35.17	33.94	32.95	31.66	29.90	28.27
90.0	36.64	35.35	34.65	33.42	32.48	30.78	29.14	27.21	25.81
135.0	36.99	36.23	35.41	34.29	33.47	32.19	30.31	28.68	26.57
180.0	36.28	35.70	34.53	33.47	32.48	31.02	29.44	27.27	25.98
225.0	35.52	34.76	33.36	32.36	30.78	29.61	27.10	25.69	23.82
270.0	36.81	35.93	35.29	34.06	33.07	31.54	30.37	28.15	26.45
315.0	36.69	35.76	34.82	33.83	32.54	30.90	29.61	27.15	25.69
360.0	37.16	36.40	35.82	34.65	33.30	31.89	30.49	28.97	26.80
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.16	23.29	21.65	20.07	18.90	17.79	17.21	16.56	16.04
45.0	26.51	25.16	22.82	21.65	19.84	18.96	17.85	17.03	16.39
90.0	23.47	22.24	20.66	19.37	18.20	17.26	16.62	16.04	15.51
135.0	24.81	23.06	21.77	19.84	18.90	17.79	17.09	16.33	15.86
180.0	23.41	22.24	20.54	19.20	18.08	17.09	16.50	15.98	15.63
225.0	22.18	20.31	19.14	18.20	17.15	16.50	16.04	15.51	15.16
270.0	24.23	22.59	21.13	19.72	18.49	17.50	16.91	16.33	15.80
315.0	23.64	22.00	20.19	19.25	18.20	17.21	16.62	16.09	15.68
360.0	25.16	23.29	21.65	20.07	18.90	17.79	17.21	16.56	16.04
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.63	15.22	14.92	14.51	14.16	13.87	13.58	13.17	12.99
45.0	15.98	15.51	15.04	14.69	14.34	14.05	13.64	13.28	12.99
90.0	15.16	14.75	14.40	14.10	13.75	13.40	13.11	12.82	12.47
135.0	15.45	15.04	14.69	14.46	14.05	13.75	13.52	13.34	13.34
180.0	15.27	14.92	14.57	14.34	14.10	13.81	13.64	13.64	13.52
225.0	14.81	14.46	14.16	13.87	13.58	13.23	12.93	12.64	12.41
270.0	15.39	15.04	14.57	14.28	13.93	13.58	13.34	13.05	12.64
315.0	15.27	14.92	14.57	14.22	13.93	13.52	13.23	12.99	12.82
360.0	15.63	15.22	14.92	14.51	14.16	13.87	13.58	13.17	12.99
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.64	12.29	11.82	11.53	11.24	11.00	10.77	10.53	10.42
45.0	12.64	12.35	11.94	11.70	11.41	11.18	10.94	10.71	10.53
90.0	12.17	11.94	11.70	11.35	11.12	10.89	10.71	10.48	10.30
135.0	13.34	12.99	12.11	11.59	11.35	11.00	10.77	10.59	10.42
180.0	13.23	12.23	11.59	11.35	11.06	10.77	10.48	10.42	10.24
225.0	11.88	11.59	11.29	11.12	10.89	10.59	10.42	10.30	10.36
270.0	12.35	12.00	11.70	11.47	11.18	10.89	10.65	10.48	10.30
315.0	12.64	11.88	11.59	11.29	11.06	10.83	10.59	10.42	10.30
360.0	12.64	12.29	11.82	11.53	11.24	11.00	10.77	10.53	10.42

Intensity data(cd)

C/ γ (°)	90.0
0.0	10.30
45.0	10.42
90.0	10.30
135.0	10.36
180.0	10.30
225.0	10.36
270.0	10.36
315.0	10.36
360.0	10.30