



NATA LIGHTING CO.,LTD.  
www.nata.cn  
Email:info@nata.com  
Tel:+86-750-3770000 Fax:+86-750-3771111  
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 3-2832-L

Luminaire: 92.70.412.00

Report No: 2024227-B026

Ballast type: AC

Test No: 2024227-C026

Voltage(V): 0.000

LampCAT: P2141-036-1206-P3090-1

Current(A): 0.000

Lamp flux(lm): 3316.0

Power (W): 0.000

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

### Photometric Results

Lumens(lm): 2817.92, Efficiency(%): 84.98% , Luminous Efficacy(lm/W): 0.00

Central intensity(cd): 13277.880, Maximum intensity(cd): 13277.880

Angle of maximum intensity: C=0.0  $\gamma$ =0.0

Beam Angle(50%Imax): [C0/180]Total=17.8

[C90/270]Total=17.8

Field angle(10%Imax): [C0/180]Total=50.6

[C90/270]Total=50.6

Maximum s/h(1/2): C0\_180=0.30 C90\_270=0.30

Maximum s/h(1/4): C0\_180=0.35 C90\_270=0.35

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 84.98%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in  $\pi$  solid angle : 97.842%

Equipment: GMS1980  
Temperature(°C): 25.0

Date: 2024/2/27  
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	13277.877	0.000	0	0.00%	0.00%
1.0	13005.536	12.576	12.576	0.38%	0.45%
2.0	12633.559	36.800	49.376	1.11%	1.75%
3.0	11977.537	58.862	108.237	1.78%	3.84%
4.0	11433.277	78.363	186.601	2.36%	6.62%
5.0	10524.569	94.462	281.062	2.85%	9.97%
6.0	9483.527	105.148	386.21	3.17%	13.71%
7.0	8464.870	111.405	497.616	3.36%	17.66%
8.0	7462.014	113.986	611.601	3.44%	21.70%
9.0	6507.146	113.212	724.814	3.41%	25.72%
10.0	5702.315	110.491	835.305	3.33%	29.64%
11.0	5039.036	107.328	942.633	3.24%	33.45%
12.0	4476.050	104.014	1046.647	3.14%	37.14%
13.0	4035.009	101.005	1147.652	3.05%	40.73%
14.0	3636.837	98.199	1245.851	2.96%	44.21%
15.0	3321.840	95.532	1341.382	2.88%	47.60%
16.0	3020.961	92.940	1434.322	2.80%	50.90%
17.0	2833.616	91.171	1525.494	2.75%	54.14%
18.0	2562.744	88.974	1614.468	2.68%	57.29%
19.0	2423.095	86.743	1701.211	2.62%	60.37%
20.0	2146.225	83.631	1784.842	2.52%	63.34%
21.0	1982.801	79.286	1864.128	2.39%	66.15%
22.0	1820.840	76.436	1940.564	2.31%	68.87%
23.0	1677.460	73.404	2013.968	2.21%	71.47%
24.0	1499.303	69.455	2083.423	2.09%	73.93%
25.0	1376.259	65.384	2148.807	1.97%	76.26%
26.0	1232.199	61.573	2210.38	1.86%	78.44%
27.0	1163.859	58.620	2269	1.77%	80.52%
28.0	1084.363	56.920	2325.92	1.72%	82.54%
29.0	996.272	54.435	2380.356	1.64%	84.47%
30.0	901.320	51.235	2431.59	1.55%	86.29%
31.0	786.272	46.963	2478.553	1.42%	87.96%
32.0	666.337	41.616	2520.169	1.25%	89.43%
33.0	537.090	35.453	2555.622	1.07%	90.69%
34.0	423.754	29.078	2584.7	0.88%	91.72%
35.0	313.344	22.892	2607.592	0.69%	92.54%
36.0	247.923	17.871	2625.463	0.54%	93.17%
37.0	179.591	13.943	2639.406	0.42%	93.67%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	142.305	10.744	2650.15	0.32%	94.05%
39.0	101.273	8.314	2658.464	0.25%	94.34%
40.0	93.687	6.800	2665.264	0.21%	94.58%
41.0	87.191	6.441	2671.705	0.19%	94.81%
42.0	81.083	6.114	2677.819	0.18%	95.03%
43.0	75.823	5.812	2683.631	0.18%	95.23%
44.0	70.783	5.533	2689.164	0.17%	95.43%
45.0	65.991	5.256	2694.421	0.16%	95.62%
46.0	62.239	5.015	2699.435	0.15%	95.80%
47.0	58.800	4.814	2704.249	0.15%	95.97%
48.0	55.816	4.633	2708.883	0.14%	96.13%
49.0	53.168	4.475	2713.358	0.13%	96.29%
50.0	50.966	4.342	2717.7	0.13%	96.44%
51.0	49.239	4.240	2721.939	0.13%	96.59%
52.0	47.689	4.159	2726.099	0.13%	96.74%
53.0	46.379	4.092	2730.191	0.12%	96.89%
54.0	45.355	4.043	2734.234	0.12%	97.03%
55.0	44.199	3.998	2738.231	0.12%	97.17%
56.0	43.131	3.946	2742.178	0.12%	97.31%
57.0	41.851	3.886	2746.063	0.12%	97.45%
58.0	40.315	3.800	2749.863	0.11%	97.58%
59.0	38.508	3.685	2753.548	0.11%	97.72%
60.0	36.650	3.551	2757.099	0.11%	97.84%
61.0	34.667	3.403	2760.502	0.10%	97.96%
62.0	32.458	3.234	2763.736	0.10%	98.08%
63.0	30.322	3.053	2766.79	0.09%	98.19%
64.0	28.230	2.873	2769.663	0.09%	98.29%
65.0	26.430	2.705	2772.368	0.08%	98.38%
66.0	24.770	2.555	2774.923	0.08%	98.47%
67.0	23.343	2.419	2777.342	0.07%	98.56%
68.0	22.158	2.305	2779.647	0.07%	98.64%
69.0	21.258	2.215	2781.862	0.07%	98.72%
70.0	20.476	2.143	2784.005	0.06%	98.80%
71.0	19.839	2.084	2786.089	0.06%	98.87%
72.0	19.269	2.033	2788.122	0.06%	98.94%
73.0	18.771	1.989	2790.111	0.06%	99.01%
74.0	18.310	1.949	2792.061	0.06%	99.08%
75.0	17.849	1.911	2793.971	0.06%	99.15%

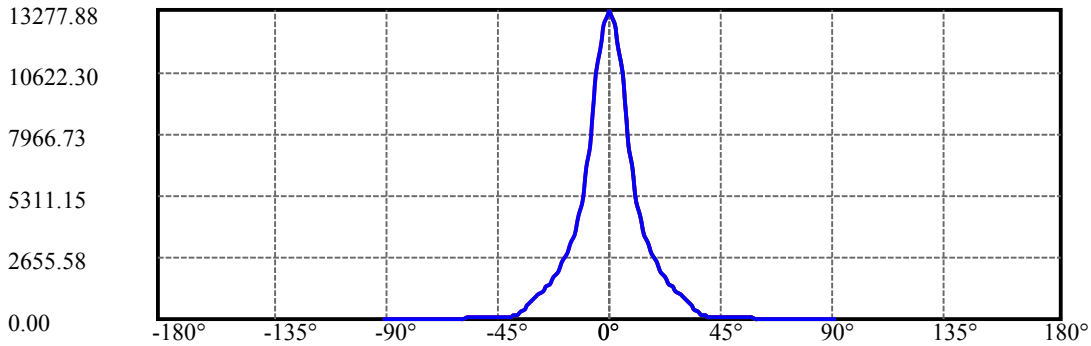
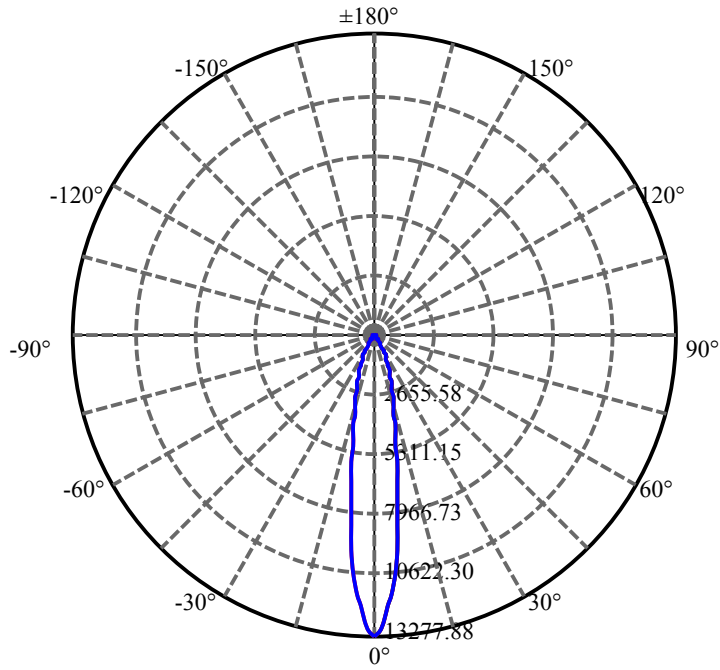
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.359	1.869	2795.84	0.06%	99.22%
77.0	16.950	1.829	2797.67	0.06%	99.28%
78.0	16.657	1.799	2799.469	0.05%	99.35%
79.0	16.379	1.775	2801.244	0.05%	99.41%
80.0	15.933	1.742	2802.986	0.05%	99.47%
81.0	15.487	1.699	2804.685	0.05%	99.53%
82.0	14.894	1.647	2806.332	0.05%	99.59%
83.0	14.279	1.586	2807.918	0.05%	99.65%
84.0	13.884	1.534	2809.452	0.05%	99.70%
85.0	13.482	1.494	2810.946	0.05%	99.75%
86.0	13.131	1.455	2812.401	0.04%	99.80%
87.0	12.838	1.421	2813.822	0.04%	99.85%
88.0	12.502	1.388	2815.21	0.04%	99.90%
89.0	12.334	1.361	2816.571	0.04%	99.95%
90.0	12.202	1.345	2817.917	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2431.59	73.33%	86.29%
0-40	2665.26	80.38%	94.58%
0-60	2757.10	83.15%	97.84%
0-90	2816.57	84.94%	99.95%
0-120	2816.57	84.94%	99.95%
0-180	2817.92	84.98%	100.00%
60-90	59.47	1.79%	2.11%
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%
0-26.75	2254.33	67.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	835.31
10-20	949.54
20-30	646.75
30-40	233.67
40-50	52.44
50-60	39.40
60-70	26.91
70-80	18.98
80-90	13.59
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



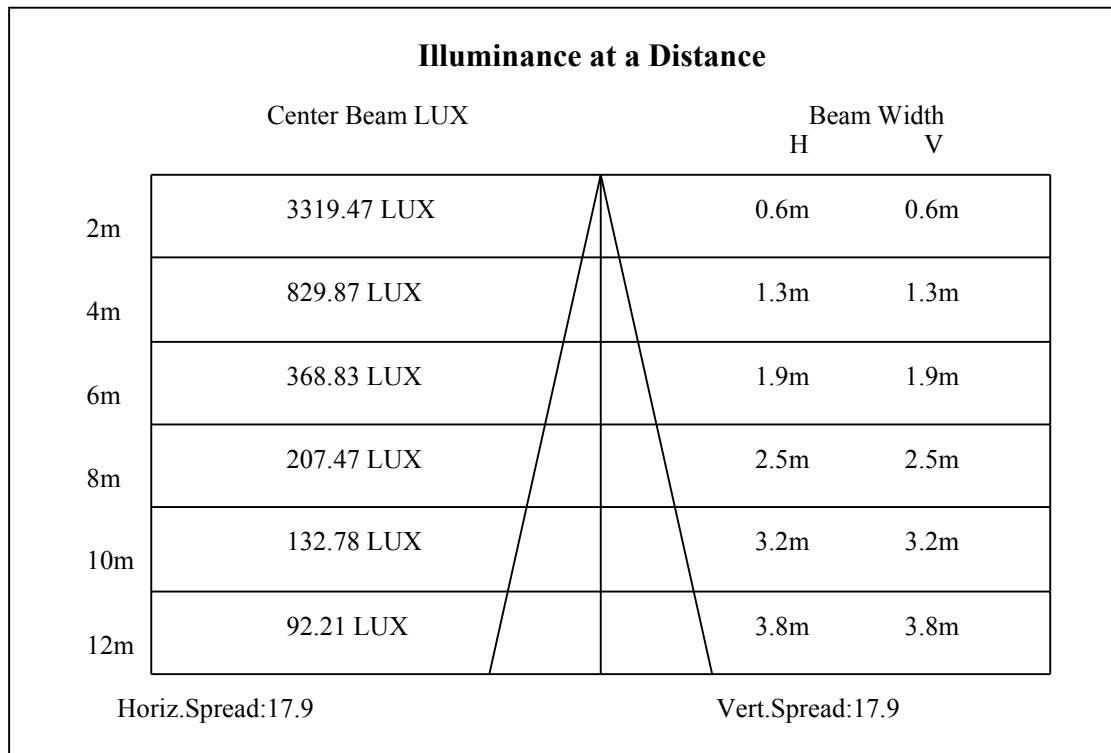
C0(Max): —————

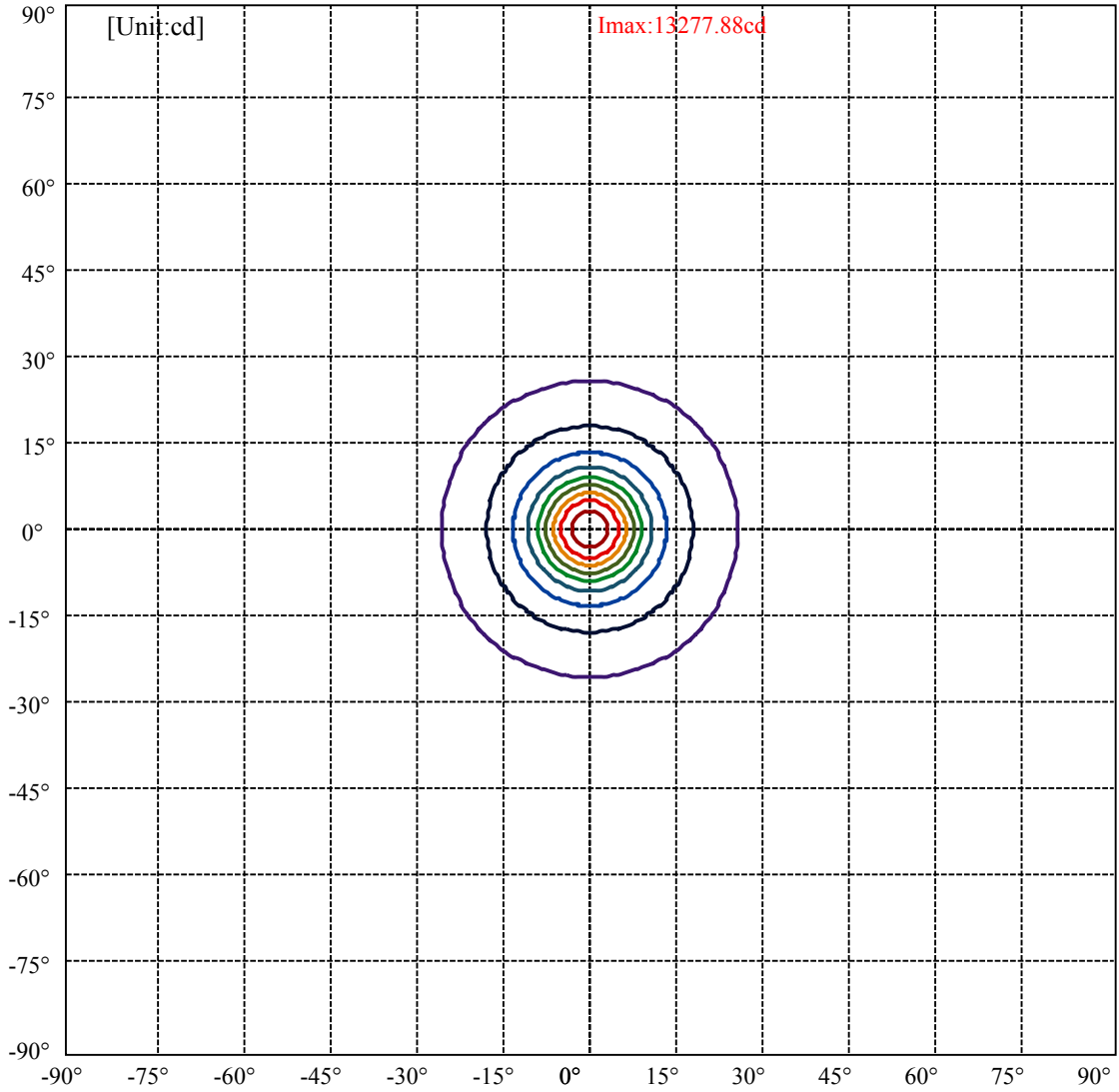
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:25.3 Right:25.3  
:C90/270Left:25.3 Right:25.3

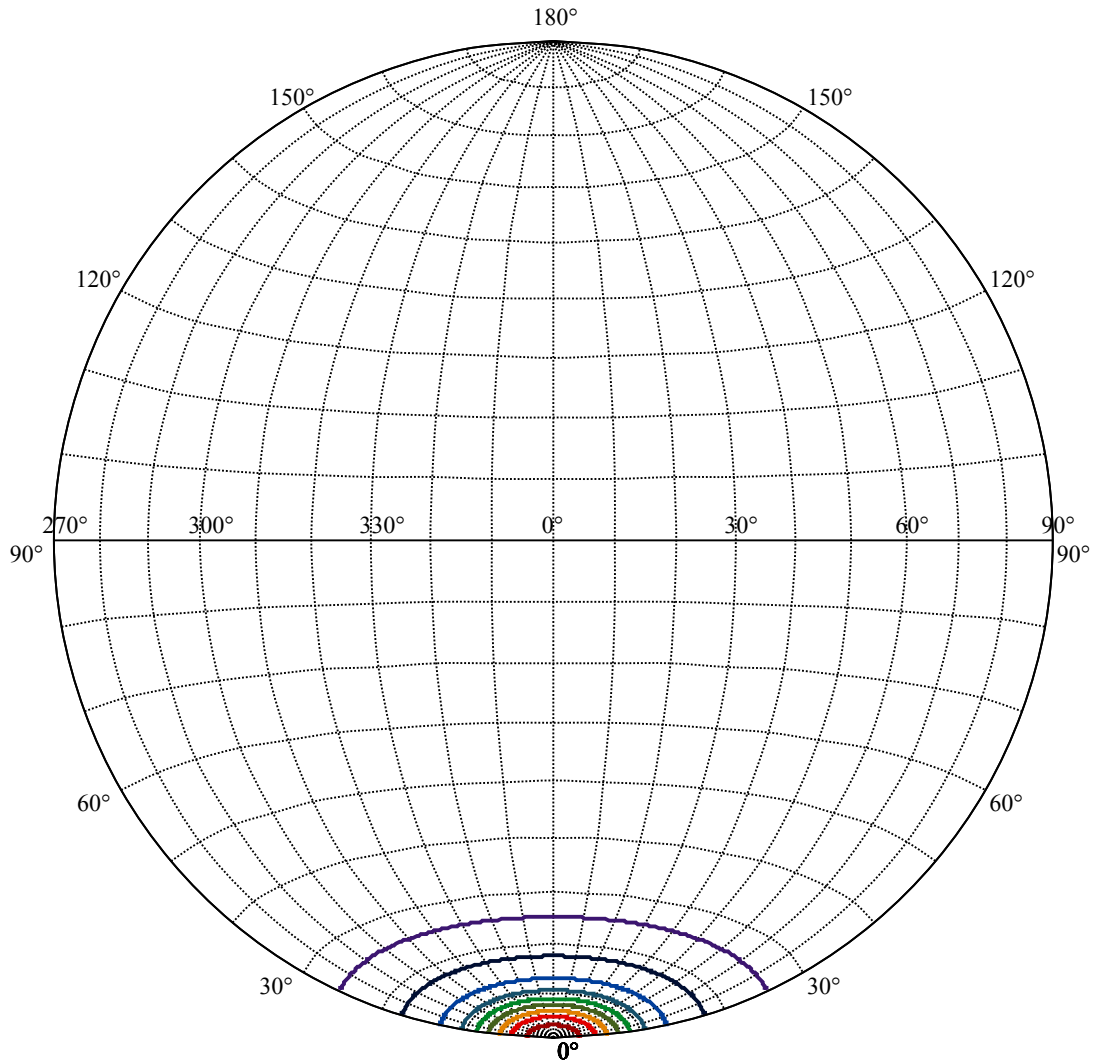
Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9  
:C90/270Left:8.9 Right:8.9





(10%Imax) 1327.79	—
(20%Imax) 2655.58	—
(30%Imax) 3983.36	—
(40%Imax) 5311.15	—
(50%Imax) 6638.94	—
(60%Imax) 7966.73	—
(70%Imax) 9294.52	—
(80%Imax) 10622.3	—
(90%Imax) 11950.1	—





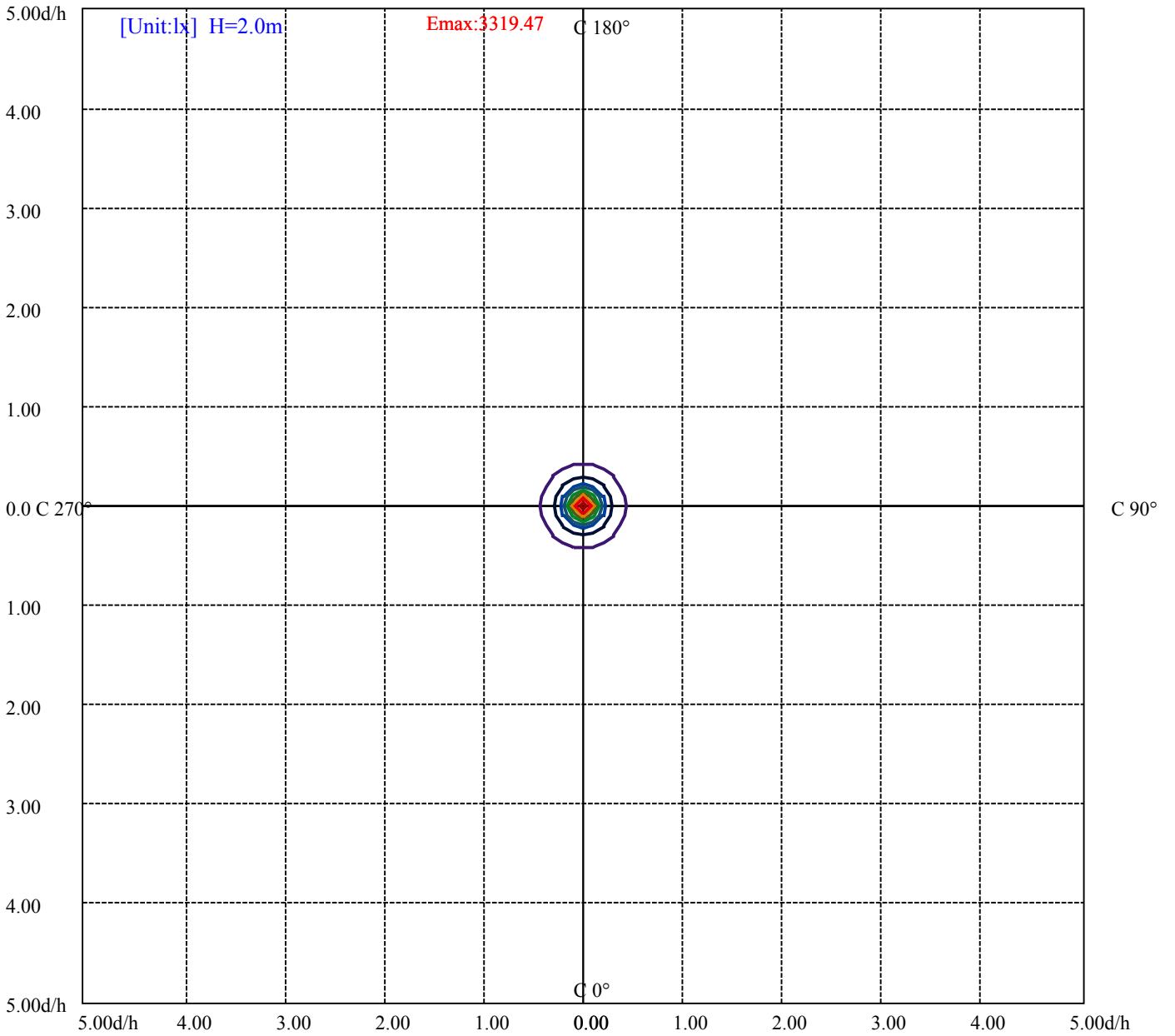
House

[Unit:cd]

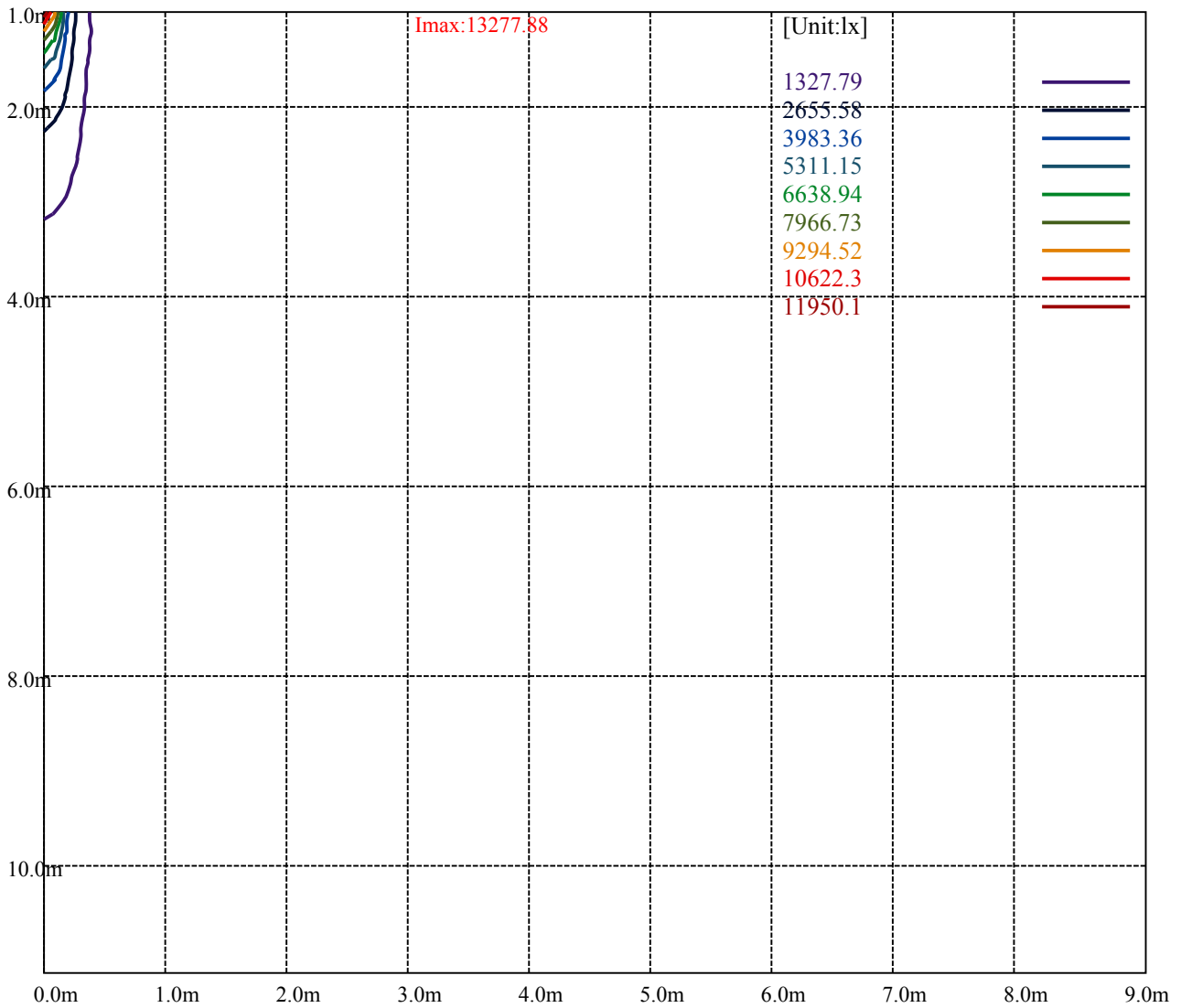
Road

**I<sub>max</sub>:13277.88**

(10%I <sub>max</sub> )	1327.79	—
(20%I <sub>max</sub> )	2655.58	—
(30%I <sub>max</sub> )	3983.36	—
(40%I <sub>max</sub> )	5311.15	—
(50%I <sub>max</sub> )	6638.94	—
(60%I <sub>max</sub> )	7966.73	—
(70%I <sub>max</sub> )	9294.52	—
(80%I <sub>max</sub> )	10622.3	—
(90%I <sub>max</sub> )	11950.1	—



- (10%Emax) 331.945
- (20%Emax) 663.8925
- (30%Emax) 995.8375
- (40%Emax) 1327.785
- (50%Emax) 1659.73
- (60%Emax) 1991.675
- (70%Emax) 2323.623
- (80%Emax) 2655.575
- (90%Emax) 2987.525



Luminance Table

$\gamma$	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

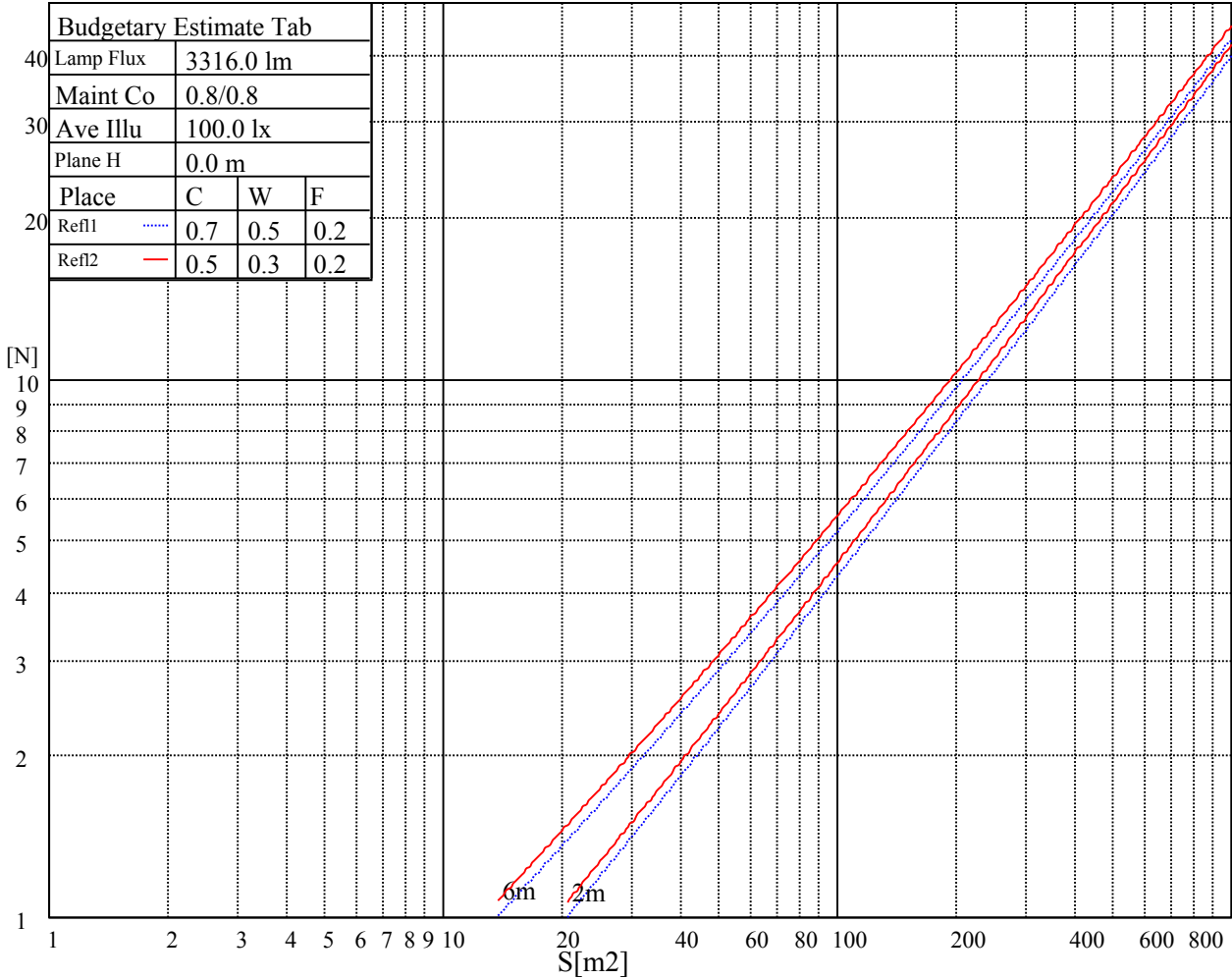
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

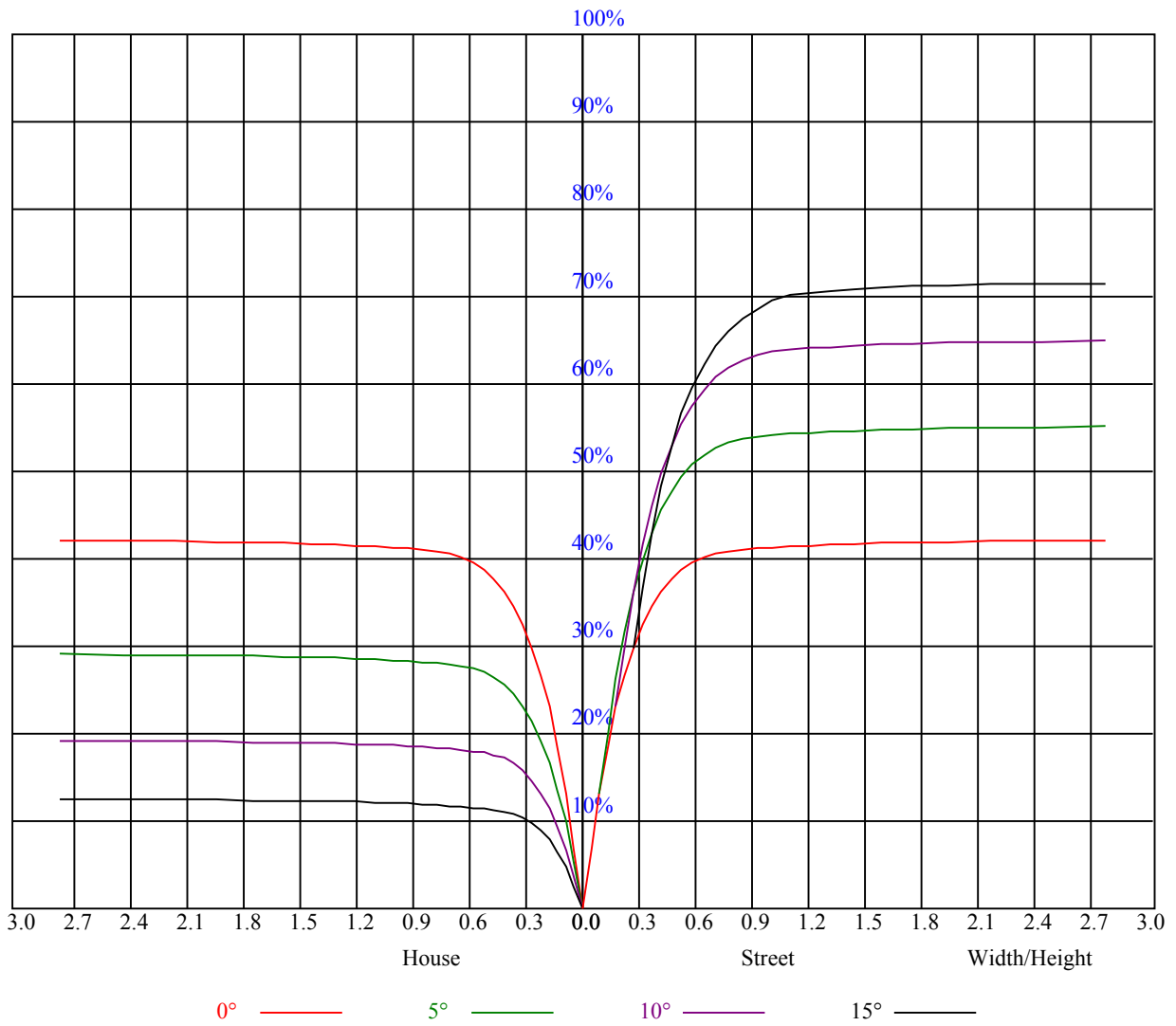


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	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	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	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	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	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	非数字
4H	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	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	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	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	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	非数字
8H	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	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	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	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	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	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	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	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	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				

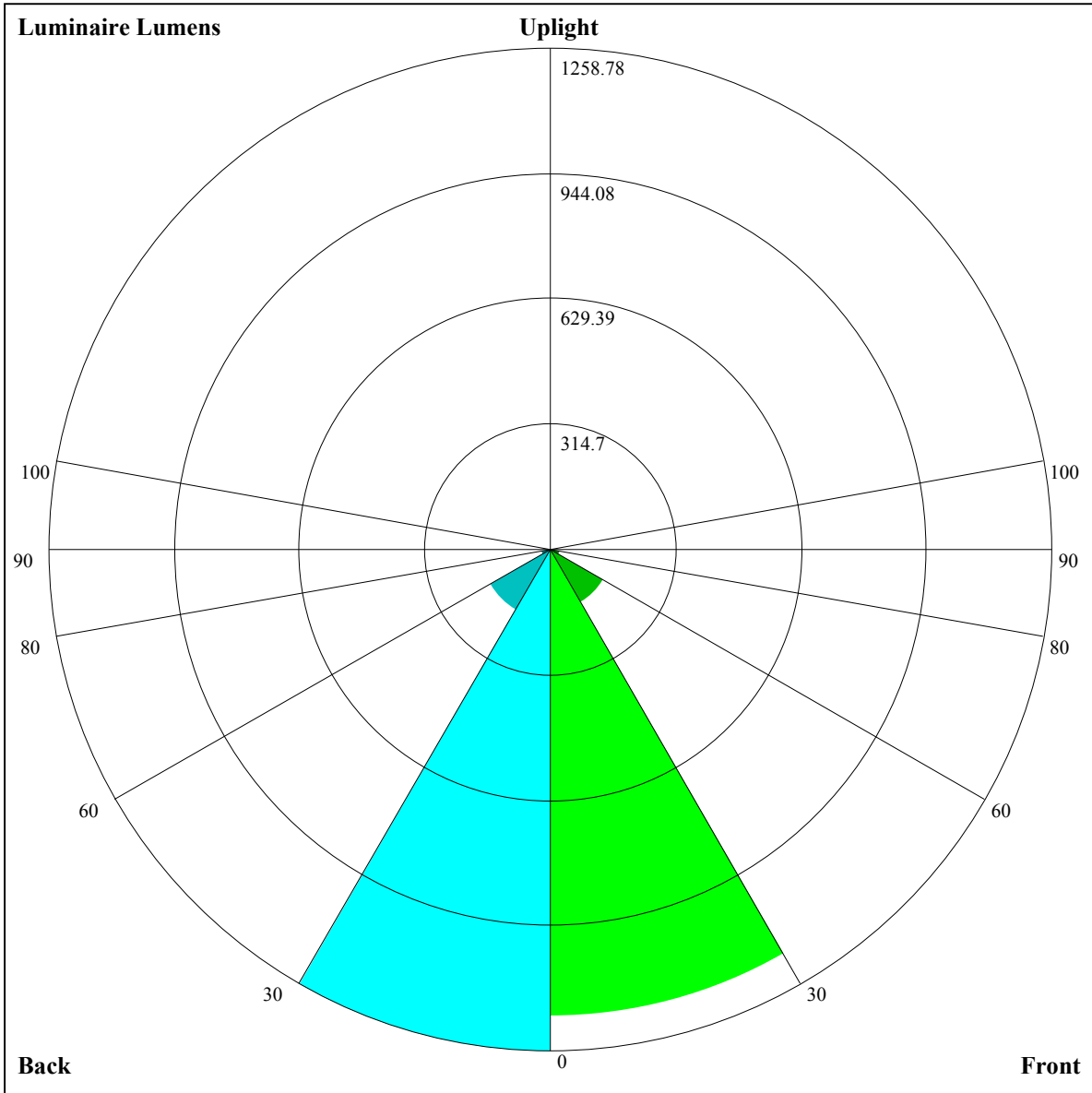
UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.82	0.81
2	0.89	0.87	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.80	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	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.68	0.65	0.63	0.62
8	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.65	0.63	0.60	0.60
9	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.57
10	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.59	0.56	0.56







Luminaire Lumens:

FL=1174.05,FM=153.04,FH=22.59,FVH=7.39

BL=1258.78,BM=174.84,BH=23.38,BVH=7.55

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	13059.88	11548.30	11548.30	10919.19	9986.92	8779.60	7809.30	6885.23	5845.87
45.0	13375.90	13194.48	12784.83	12000.62	11204.72	10303.47	9343.70	8126.43	7178.37
90.0	13264.71	12644.37	11593.95	11383.86	10478.51	9525.77	8308.50	7360.43	6458.02
135.0	13411.02	13317.38	12878.46	12304.94	11544.15	10414.66	9449.04	8483.42	7301.27
180.0	13059.88	13323.23	13364.20	13130.11	12714.60	12094.26	11081.82	10163.02	9168.13
225.0	13375.90	13311.53	13013.06	11651.30	11651.30	10787.51	9834.76	8597.60	7606.23
270.0	13264.71	13411.02	13329.08	12925.28	12381.02	11649.49	10578.53	9636.31	8647.28
315.0	13411.02	13293.97	12556.59	11505.00	11505.00	10641.79	9462.56	8466.51	7490.94
360.0	13059.88	11548.30	11548.30	10919.19	9986.92	8779.60	7809.30	6885.23	5845.87
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5186.91	4644.99	4190.27	3722.67	3406.65	3128.67	2816.16	2596.70	2407.09
45.0	6300.53	5569.00	4837.47	4357.59	3953.78	3526.57	3228.10	2964.75	2964.75
90.0	5515.80	4920.63	4313.75	3915.21	3574.61	3207.68	2949.01	2717.84	2514.19
135.0	6423.43	5680.19	5065.71	4439.52	4024.01	3667.02	3351.00	2999.86	2999.86
180.0	7939.16	7008.65	6160.08	5440.25	4720.42	4258.10	3871.85	3520.71	3152.02
225.0	6676.31	5675.57	5039.43	4524.43	4101.90	3655.96	3352.81	3078.34	2839.57
270.0	7435.87	6534.62	5744.57	4942.81	4451.22	4035.71	3690.43	3298.33	3034.98
315.0	6579.16	5584.86	4961.01	4465.91	4047.47	3614.99	3315.36	2991.14	2756.47
360.0	5186.91	4644.99	4190.27	3722.67	3406.65	3128.67	2816.16	2596.70	2407.09
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2187.63	2030.20	1877.46	1735.84	1573.14	1436.20	1150.96	1150.96	1099.58
45.0	2486.09	2308.19	2098.09	1944.76	1808.99	1672.05	1498.82	1360.12	1238.98
90.0	2284.19	2119.74	1963.49	1817.18	1648.64	1511.11	1275.26	1153.54	1134.75
135.0	2504.82	2317.55	2144.91	1952.37	1810.74	1674.97	1538.62	1365.39	1243.08
180.0	2958.90	2958.90	2443.96	2263.12	2057.71	1905.55	1755.73	1610.60	1444.39
225.0	2563.34	2366.71	2149.59	1989.82	1845.86	1677.31	1543.30	1408.70	1157.17
270.0	2970.60	2970.60	2347.40	2168.90	2010.31	1864.00	1689.02	1552.08	1385.87
315.0	2546.37	2312.87	2144.91	1990.41	1811.33	1678.48	1542.71	1408.70	1153.77
360.0	2187.63	2030.20	1877.46	1735.84	1573.14	1436.20	1150.96	1150.96	1099.58
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1041.29	952.40	825.81	714.85	599.97	459.81	351.72	231.87	156.37
45.0	1155.29	1075.12	989.67	891.94	760.85	647.32	503.94	390.99	313.15
90.0	1072.95	996.93	876.55	773.90	631.81	513.36	396.37	293.49	186.45
135.0	1161.14	1094.43	1000.21	908.91	803.57	661.95	541.98	429.03	296.18
180.0	1312.13	1210.89	1140.08	1066.34	977.97	870.87	732.17	616.89	502.18
225.0	1157.17	1090.92	1026.89	931.44	799.12	684.25	569.78	458.23	326.56
270.0	1257.12	1165.83	1085.65	1017.18	920.03	811.77	667.22	549.58	433.71
315.0	1153.77	1088.40	1025.31	905.99	796.84	681.38	533.55	419.96	292.14
360.0	1041.29	952.40	825.81	714.85	599.97	459.81	351.72	231.87	156.37
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	115.06	103.41	93.99	88.25	82.52	77.07	70.93	66.83	62.79
45.0	313.15	122.66	106.98	98.14	92.17	84.51	78.77	73.91	69.35
90.0	127.64	108.33	99.43	91.53	85.38	79.30	73.21	68.94	64.61
135.0	296.18	188.33	108.85	100.13	94.05	86.32	80.41	75.32	70.75
180.0	361.14	307.89	307.89	117.05	106.39	98.84	91.65	85.56	80.12
225.0	236.72	163.86	115.93	106.45	97.50	91.65	85.15	79.82	73.27
270.0	328.95	303.79	196.69	110.61	99.55	93.28	87.78	80.29	75.55
315.0	204.54	138.46	108.68	98.03	91.94	86.55	80.76	75.90	69.82
360.0	115.06	103.41	93.99	88.25	82.52	77.07	70.93	66.83	62.79

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	58.76	55.65	53.37	50.74	49.10	47.58	45.88	44.89	44.01
45.0	64.08	60.80	56.77	54.07	51.62	49.39	47.81	46.70	45.41
90.0	60.16	56.94	54.31	51.38	49.63	47.87	46.70	45.30	44.77
135.0	65.14	61.57	58.23	55.48	52.14	50.15	48.34	46.99	45.82
180.0	74.85	69.58	65.25	61.80	58.64	55.25	52.96	50.97	48.81
225.0	69.17	65.19	61.68	58.05	55.42	53.20	51.32	49.33	47.87
270.0	69.82	65.95	62.44	59.28	56.01	53.49	51.79	49.92	48.28
315.0	65.95	62.21	58.35	55.71	52.79	50.80	49.10	47.40	46.06
360.0	58.76	55.65	53.37	50.74	49.10	47.58	45.88	44.89	44.01
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	43.07	41.73	40.44	39.09	36.87	35.23	32.83	31.31	28.56
45.0	44.54	43.54	42.72	41.14	39.68	37.69	35.76	33.36	31.66
90.0	44.01	42.72	41.08	39.97	37.75	36.23	33.88	31.78	29.38
135.0	45.12	43.72	43.01	41.61	40.03	37.86	36.34	34.00	31.84
180.0	47.40	46.23	44.95	43.95	42.60	40.91	39.27	37.51	35.87
225.0	46.53	45.53	44.65	42.72	41.61	39.91	38.22	35.82	33.65
270.0	46.88	46.00	44.83	44.30	42.84	41.32	39.50	38.16	35.52
315.0	45.30	44.13	43.37	42.02	41.14	38.92	37.40	35.41	33.18
360.0	43.07	41.73	40.44	39.09	36.87	35.23	32.83	31.31	28.56
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.15	24.93	23.82	22.59	21.42	20.72	20.01	19.55	19.02
45.0	29.03	27.51	25.57	24.05	22.77	21.77	21.07	20.19	19.66
90.0	27.86	25.46	24.17	22.88	21.71	20.83	20.07	19.61	19.08
135.0	29.44	27.80	25.93	24.11	22.82	21.48	20.72	19.96	19.31
180.0	33.01	31.37	29.03	27.51	25.11	23.94	22.65	21.48	20.78
225.0	31.89	28.97	27.51	25.57	24.35	22.77	21.95	21.19	20.42
270.0	33.47	31.31	28.97	26.86	25.11	23.88	22.47	21.48	20.66
315.0	30.72	28.50	26.45	24.58	23.47	21.89	21.13	20.37	19.78
360.0	27.15	24.93	23.82	22.59	21.42	20.72	20.01	19.55	19.02
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.43	18.02	17.62	17.21	16.62	16.27	15.74	15.33	14.86
45.0	19.25	18.73	18.20	17.85	17.38	16.97	16.91	17.15	16.09
90.0	18.49	18.08	17.67	17.09	16.68	16.15	15.80	15.39	14.98
135.0	18.84	18.38	17.97	17.44	17.03	16.68	16.33	15.80	15.39
180.0	19.96	19.49	19.02	18.55	17.97	17.50	17.15	16.74	16.21
225.0	19.90	19.31	18.79	18.38	17.91	17.50	17.62	17.91	18.08
270.0	20.13	19.49	19.02	18.43	18.02	17.62	17.21	16.68	16.27
315.0	19.14	18.67	18.20	17.85	17.26	16.91	16.50	16.04	15.57
360.0	18.43	18.02	17.62	17.21	16.62	16.27	15.74	15.33	14.86
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.46	14.05	13.64	13.34	12.99	12.70	12.47	12.23	12.23
45.0	15.57	14.51	14.05	13.69	13.34	12.99	12.70	12.41	12.17
90.0	14.57	14.16	13.87	13.46	13.11	12.76	12.52	12.11	12.23
135.0	15.04	14.57	14.22	13.81	13.34	12.99	12.70	12.41	12.17
180.0	15.86	15.39	14.98	14.46	13.93	13.58	13.23	12.87	12.58
225.0	17.44	16.50	14.46	14.05	13.69	13.28	12.99	12.58	12.41
270.0	15.80	15.27	14.75	14.34	13.93	13.58	13.17	12.76	12.47
315.0	15.16	14.69	14.28	13.93	13.52	13.17	12.93	12.64	12.41
360.0	14.46	14.05	13.64	13.34	12.99	12.70	12.47	12.23	12.23

Intensity data(cd)

C/γ(°)	90.0
0.0	12.23
45.0	12.23
90.0	12.23
135.0	12.23
180.0	12.23
225.0	12.11
270.0	12.17
315.0	12.17
360.0	12.23