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: 2-2682-L
Luminaire: 92.70.412.00
Report No: 2024305-B011
Ballast type: AC

Test No: 2024305-C011	Voltage(V): 34.230
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.532
Lamp flux(lm): 3287.0	Power (W): 18.210
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2833.46, Efficiency(%): 86.20% , Luminous Efficacy(lm/W): 155.60
Central intensity(cd): 11196.440, Maximum intensity(cd): 11196.440
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.6
[C90/270]Total=20.6
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.41 C90_270=0.41
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.20%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.056%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11196.437	0.000	0	0.00%	0.00%
1.0	11120.504	10.678	10.678	0.32%	0.38%
2.0	10879.245	31.576	42.254	0.96%	1.49%
3.0	10516.625	51.172	93.426	1.56%	3.30%
4.0	9949.249	68.506	161.932	2.08%	5.71%
5.0	9355.392	83.048	244.98	2.53%	8.65%
6.0	8592.551	94.321	339.301	2.87%	11.97%
7.0	7878.504	102.236	441.536	3.11%	15.58%
8.0	7125.392	107.380	548.916	3.27%	19.37%
9.0	6457.139	110.079	658.995	3.35%	23.26%
10.0	5792.030	110.850	769.846	3.37%	27.17%
11.0	5207.610	109.909	879.755	3.34%	31.05%
12.0	4697.148	108.273	988.028	3.29%	34.87%
13.0	4249.304	106.172	1094.2	3.23%	38.62%
14.0	3833.355	103.457	1197.657	3.15%	42.27%
15.0	3484.415	100.462	1298.119	3.06%	45.81%
16.0	3150.252	97.216	1395.335	2.96%	49.24%
17.0	2878.415	93.883	1489.218	2.86%	52.56%
18.0	2626.768	90.769	1579.986	2.76%	55.76%
19.0	2418.428	87.776	1667.763	2.67%	58.86%
20.0	2211.843	84.747	1752.509	2.58%	61.85%
21.0	2038.324	81.612	1834.121	2.48%	64.73%
22.0	1886.312	78.867	1912.988	2.40%	67.51%
23.0	1731.812	75.918	1988.906	2.31%	70.19%
24.0	1596.552	72.770	2061.676	2.21%	72.76%
25.0	1431.190	68.844	2130.521	2.09%	75.19%
26.0	1314.218	64.806	2195.326	1.97%	77.48%
27.0	1190.121	61.269	2256.596	1.86%	79.64%
28.0	1089.806	57.723	2314.318	1.76%	81.68%
29.0	972.878	53.966	2368.284	1.64%	83.58%
30.0	848.913	49.188	2417.472	1.50%	85.32%
31.0	726.652	43.846	2461.318	1.33%	86.87%
32.0	617.625	38.512	2499.83	1.17%	88.23%
33.0	514.523	33.353	2533.183	1.01%	89.40%
34.0	432.108	28.648	2561.831	0.87%	90.41%
35.0	363.900	24.721	2586.552	0.75%	91.29%
36.0	311.032	21.490	2608.042	0.65%	92.04%
37.0	274.017	19.081	2627.123	0.58%	92.72%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	232.993	16.923	2644.046	0.51%	93.31%
39.0	207.301	15.028	2659.075	0.46%	93.85%
40.0	162.122	12.884	2671.959	0.39%	94.30%
41.0	138.962	10.721	2682.68	0.33%	94.68%
42.0	119.101	9.376	2692.056	0.29%	95.01%
43.0	102.948	8.225	2700.282	0.25%	95.30%
44.0	88.918	7.242	2707.523	0.22%	95.56%
45.0	77.667	6.402	2713.925	0.19%	95.78%
46.0	68.961	5.734	2719.66	0.17%	95.98%
47.0	61.858	5.203	2724.863	0.16%	96.17%
48.0	56.760	4.795	2729.658	0.15%	96.34%
49.0	52.758	4.497	2734.155	0.14%	96.50%
50.0	50.154	4.291	2738.446	0.13%	96.65%
51.0	48.581	4.177	2742.623	0.13%	96.79%
52.0	47.155	4.108	2746.731	0.12%	96.94%
53.0	46.255	4.063	2750.795	0.12%	97.08%
54.0	45.816	4.058	2754.853	0.12%	97.23%
55.0	45.238	4.064	2758.917	0.12%	97.37%
56.0	44.499	4.055	2762.972	0.12%	97.51%
57.0	43.548	4.026	2766.998	0.12%	97.65%
58.0	41.800	3.947	2770.945	0.12%	97.79%
59.0	39.708	3.811	2774.755	0.12%	97.93%
60.0	37.213	3.634	2778.389	0.11%	98.06%
61.0	34.067	3.402	2781.791	0.10%	98.18%
62.0	31.156	3.143	2784.934	0.10%	98.29%
63.0	28.113	2.883	2787.816	0.09%	98.39%
64.0	25.472	2.629	2790.446	0.08%	98.48%
65.0	23.190	2.408	2792.854	0.07%	98.57%
66.0	21.492	2.229	2795.083	0.07%	98.65%
67.0	20.212	2.097	2797.18	0.06%	98.72%
68.0	19.217	1.997	2799.177	0.06%	98.79%
69.0	18.457	1.922	2801.099	0.06%	98.86%
70.0	17.791	1.862	2802.961	0.06%	98.92%
71.0	17.264	1.812	2804.773	0.06%	98.99%
72.0	16.789	1.771	2806.543	0.05%	99.05%
73.0	16.372	1.734	2808.278	0.05%	99.11%
74.0	16.013	1.703	2809.98	0.05%	99.17%
75.0	15.684	1.675	2811.655	0.05%	99.23%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.413	1.651	2813.306	0.05%	99.29%
77.0	15.077	1.626	2814.931	0.05%	99.35%
78.0	14.770	1.598	2816.529	0.05%	99.40%
79.0	14.433	1.569	2818.098	0.05%	99.46%
80.0	14.097	1.538	2819.636	0.05%	99.51%
81.0	13.760	1.506	2821.143	0.05%	99.57%
82.0	13.416	1.474	2822.616	0.04%	99.62%
83.0	13.109	1.442	2824.058	0.04%	99.67%
84.0	12.816	1.412	2825.471	0.04%	99.72%
85.0	12.560	1.385	2826.856	0.04%	99.77%
86.0	12.334	1.361	2828.216	0.04%	99.81%
87.0	12.121	1.338	2829.555	0.04%	99.86%
88.0	11.924	1.317	2830.872	0.04%	99.91%
89.0	11.822	1.302	2832.173	0.04%	99.95%
90.0	11.726	1.291	2833.465	0.04%	100.00%

Zonal flux distribution table

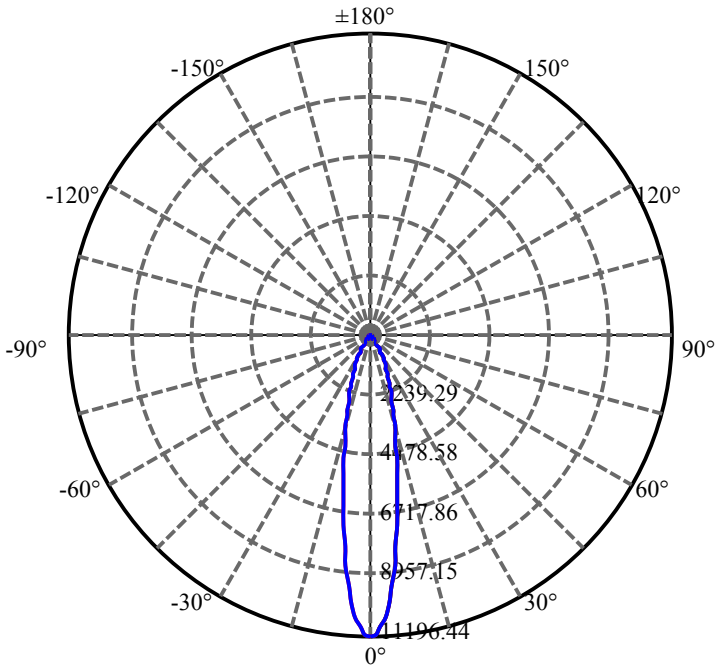
ZONAL LUMEN SUMMARY

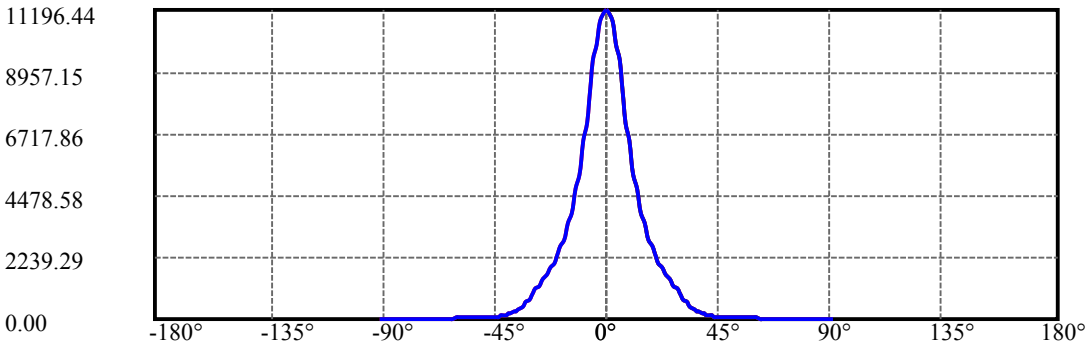
Zone	Lumens	%Lamp	%Fixt
0-30	2417.47	73.55%	85.32%
0-40	2671.96	81.29%	94.30%
0-60	2778.39	84.53%	98.06%
0-90	2832.17	86.16%	99.95%
0-120	2832.17	86.16%	99.95%
0-180	2833.46	86.20%	100.00%
60-90	53.78	1.64%	1.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.18	2266.77	68.96%	80.00%

ZONAL LUMEN SUMMARY

0-10	769.85
10-20	982.66
20-30	664.96
30-40	254.49
40-50	66.49
50-60	39.94
60-70	24.57
70-80	16.68
80-90	12.54
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

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

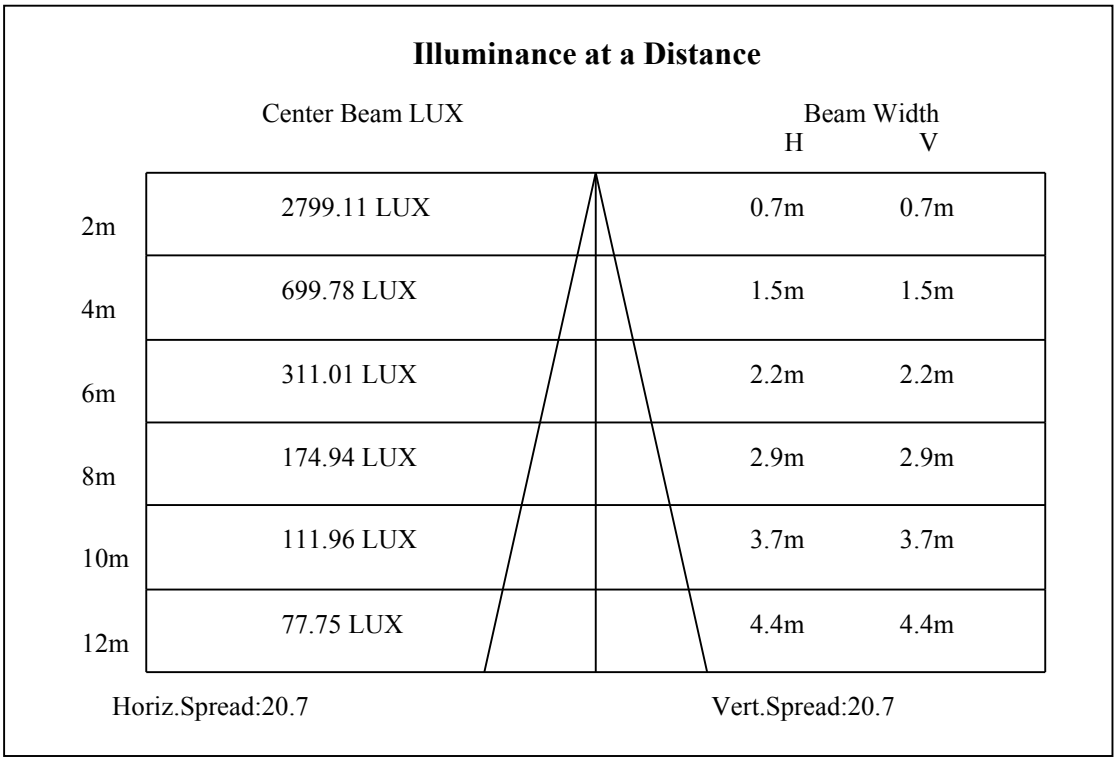
C90/C270:

Field angle(10%Imax):C0/180Left:27.7 Right:27.7
:C90/270Left:27.7 Right:27.7

Beam Angle(50%Imax):C0/180Left:10.3 Right:10.3
:C90/270Left:10.3 Right:10.3

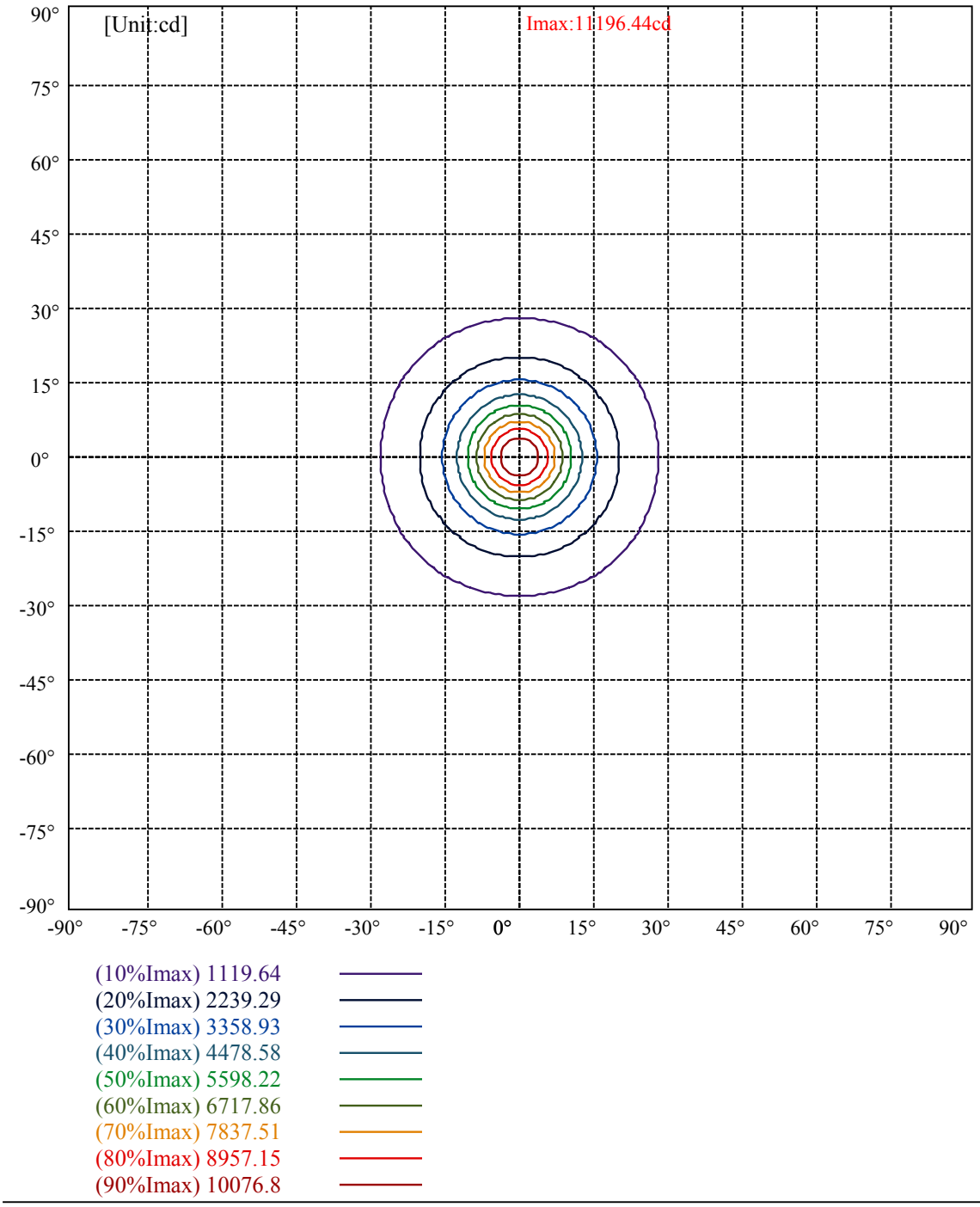
Equipment: GMS1980 Date: 2024/3/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

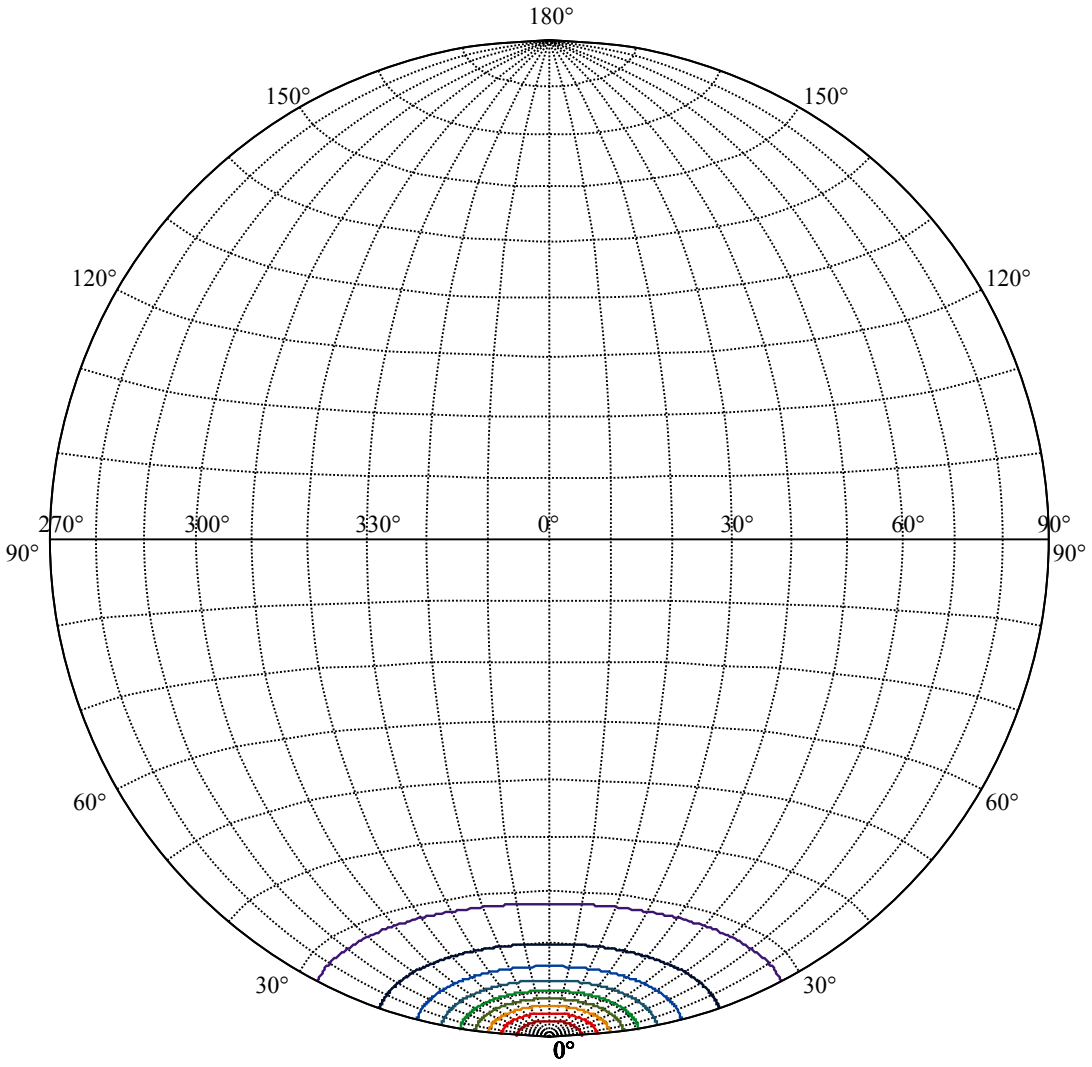


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/05
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



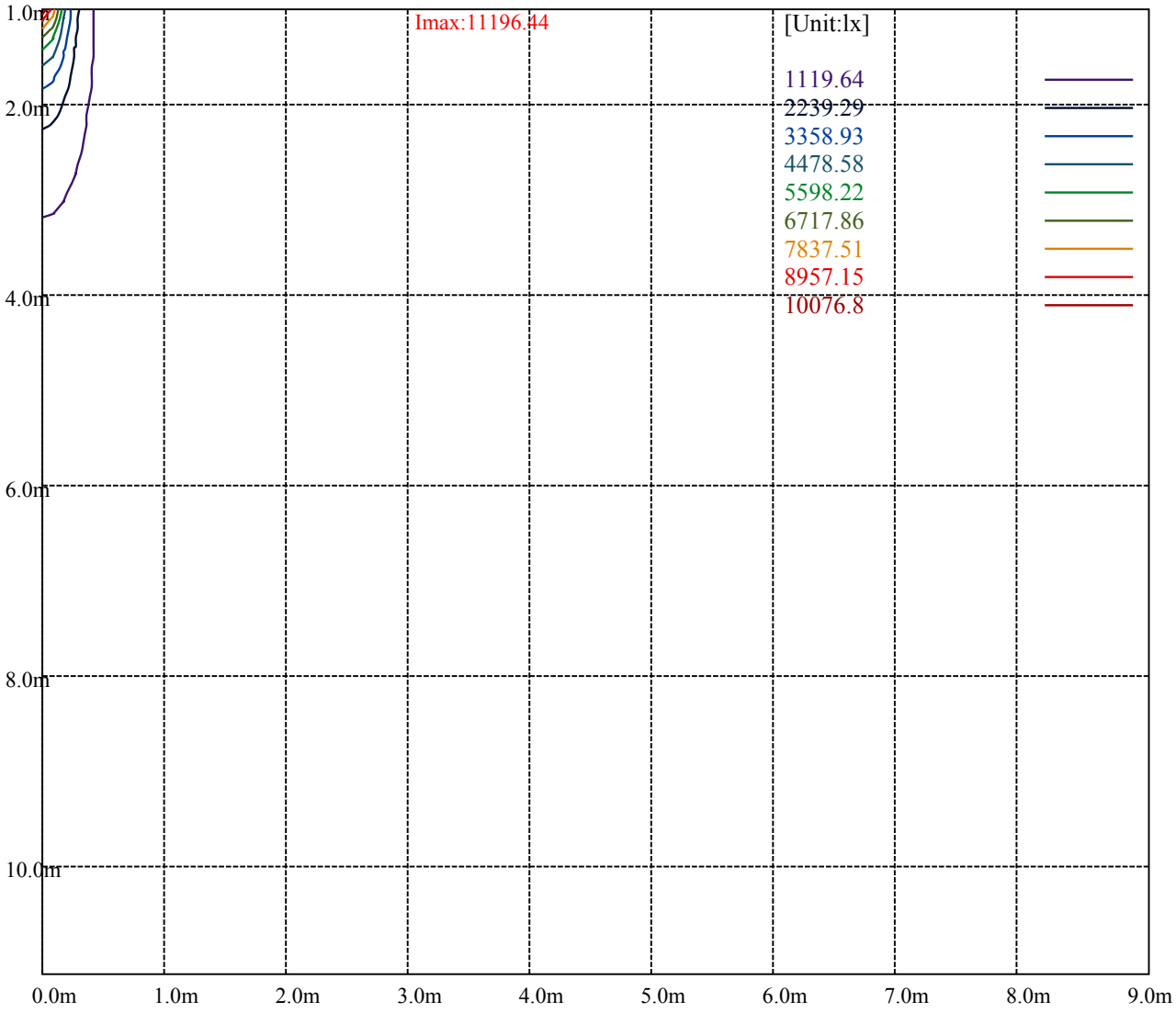
[Unit:cd]

Imax:11196.44

(10%Imax) 1119.64
(20%Imax) 2239.29
(30%Imax) 3358.93
(40%Imax) 4478.58
(50%Imax) 5598.22
(60%Imax) 6717.86
(70%Imax) 7837.51
(80%Imax) 8957.15
(90%Imax) 10076.8

Equipment: GMS1980	Date: 2024/3/05	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/05
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

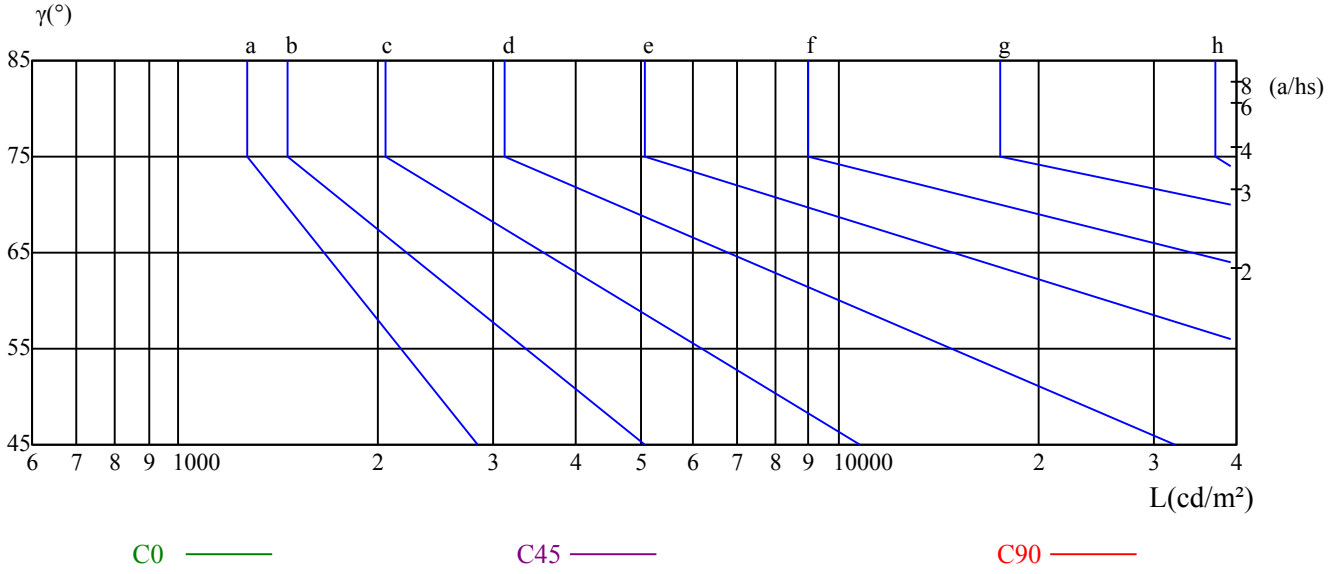
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

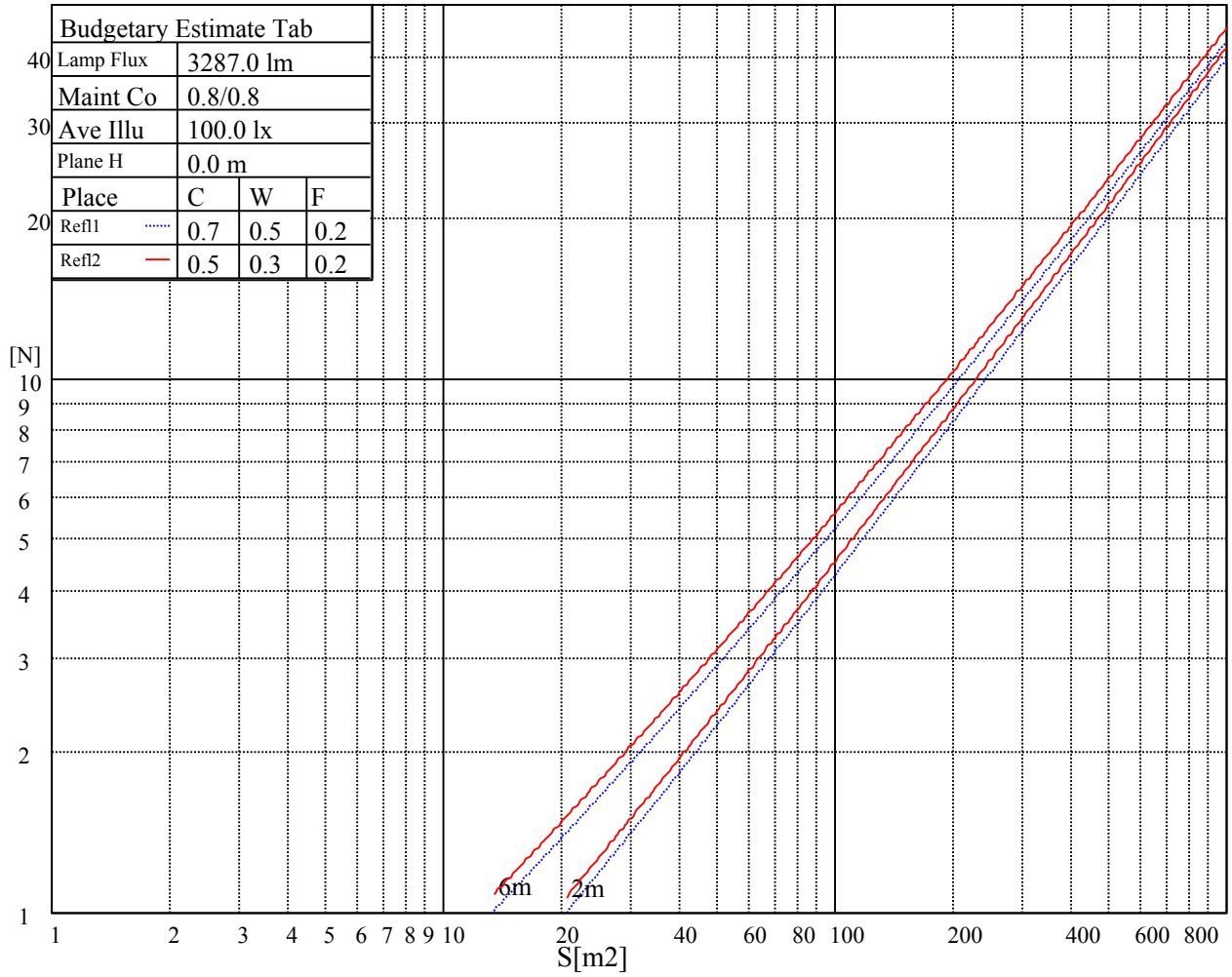
Luminance Limitting Curve



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
	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
8H	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
12H	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

Budgetary Estimate Table

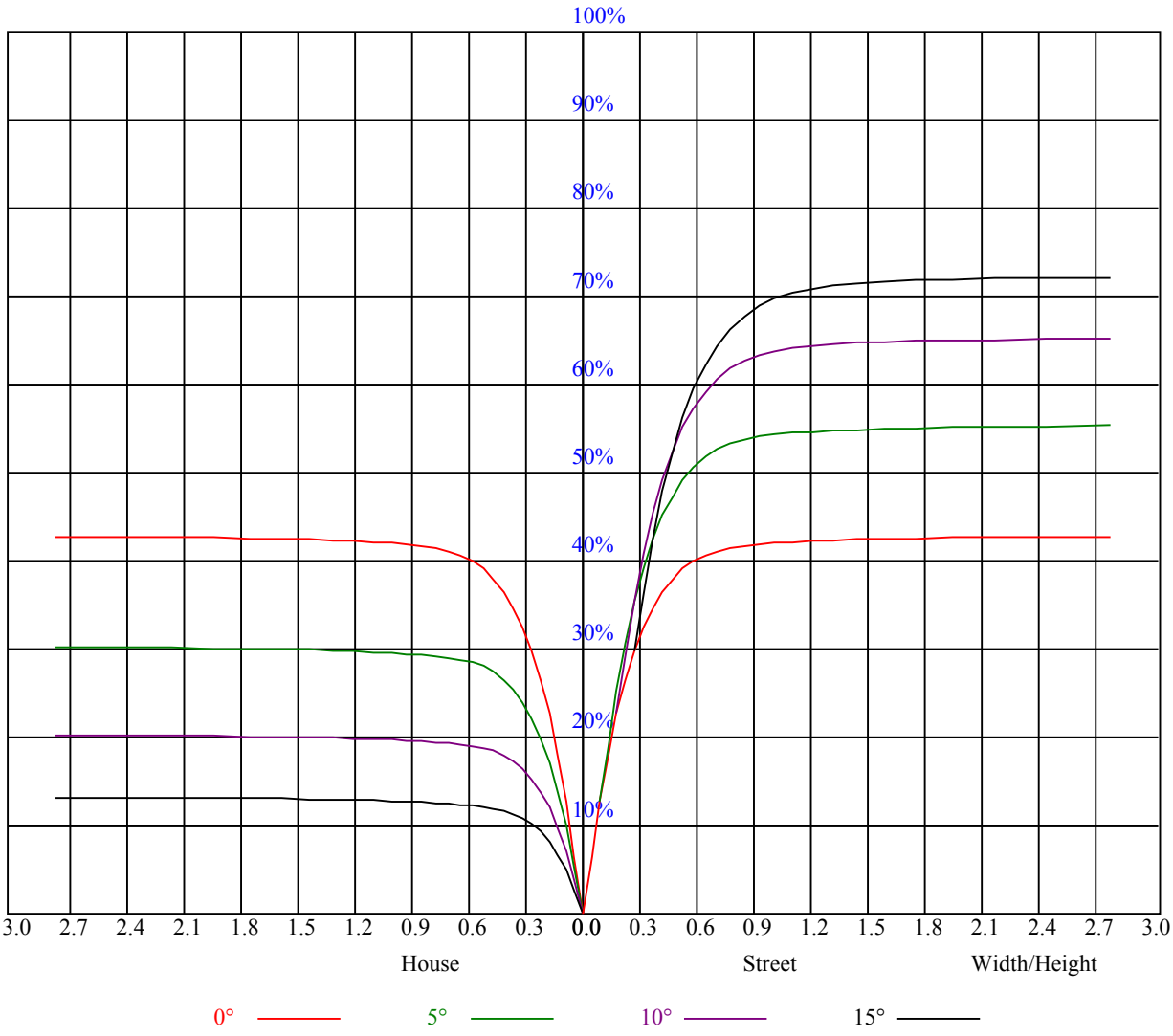


Equipment: GMS1980 Date: 2024/3/05 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

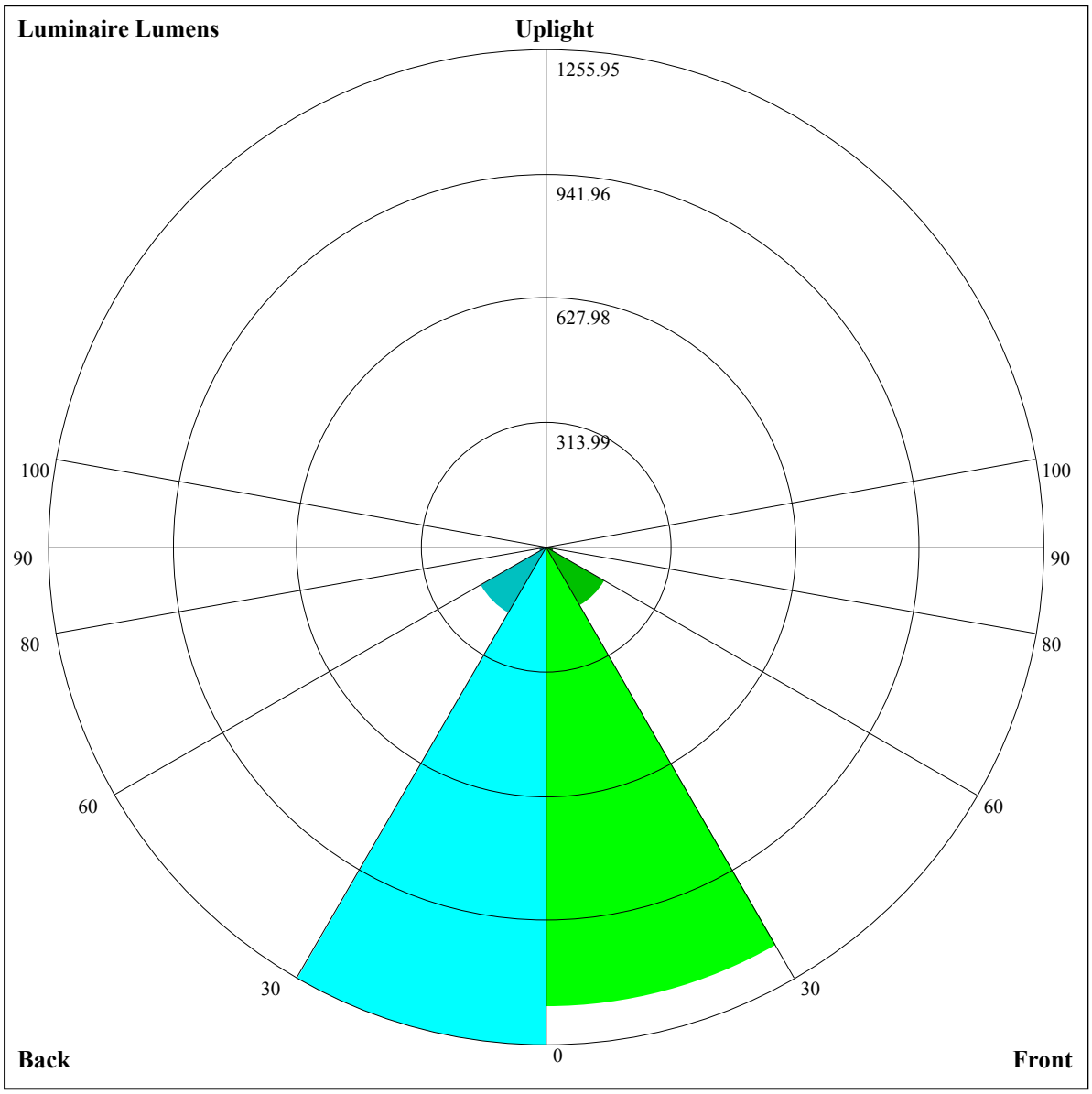
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.77
3	0.86	0.82	0.79	0.85	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.79	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.78	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.67
6	0.74	0.70	0.67	0.74	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.65	0.64
7	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	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	0.66	0.63	0.60	0.59
9	0.66	0.62	0.59	0.65	0.61	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/05	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1161.41,FM=172.18,FH=20.18,FVH=6.87
BL=1255.95,BM=191.62,BH=21.19,BVH=6.97
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	10973.03	10579.17	10087.58	9500.02	8635.05	7943.90	7276.75	6633.00	5875.13
45.0	11297.83	11155.62	10769.95	10324.01	9598.92	8909.52	8195.55	7327.66	6683.33
90.0	11198.34	10841.94	10413.55	9869.88	9001.40	8282.16	7397.89	6736.00	6112.15
135.0	11316.55	11275.59	11086.56	10610.19	10087.58	9427.45	8499.87	7753.70	7046.17
180.0	10973.03	11262.13	11293.73	11240.48	10974.20	10604.34	9957.66	9296.36	8527.37
225.0	11297.83	11277.34	11117.58	10854.81	10429.94	9871.05	9023.06	8255.24	7499.72
270.0	11198.34	11313.04	11282.61	11135.72	10778.73	10321.67	9746.40	9096.80	8190.87
315.0	11316.55	11259.20	10982.39	10597.90	10088.17	9483.04	8643.25	7929.27	7068.41
360.0	10973.03	10579.17	10087.58	9500.02	8635.05	7943.90	7276.75	6633.00	5875.13

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5339.07	4735.70	4290.34	3901.17	3478.05	3171.39	2901.02	2666.93	2463.27
45.0	6071.77	5526.92	4886.10	4427.29	4025.24	3665.32	3266.78	2983.54	2734.81
90.0	5552.67	4917.70	4458.89	4048.65	3685.81	3285.51	3001.09	2753.54	2539.35
135.0	6249.09	5672.64	5164.08	4581.20	4166.28	3789.39	3457.57	3084.78	2827.28
180.0	7754.87	6849.53	6209.30	5485.96	4985.59	4526.77	4107.17	3722.09	3323.55
225.0	6802.71	6008.56	5449.67	4957.50	4403.88	4011.19	3657.13	3269.13	2994.07
270.0	7468.70	6795.11	6029.05	5472.50	4977.98	4417.34	4018.21	3561.15	3254.49
315.0	6418.22	5830.07	5173.45	4702.93	4271.62	3799.92	3466.35	3160.86	2890.48
360.0	5339.07	4735.70	4290.34	3901.17	3478.05	3171.39	2901.02	2666.93	2463.27

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2242.64	2082.87	1932.47	1763.93	1641.03	1521.06	1404.60	1149.32	1149.32
45.0	2474.98	2294.14	2129.11	1939.49	1805.48	1678.48	1526.33	1406.94	1292.82
90.0	2307.02	2138.47	1943.59	1805.48	1677.90	1524.57	1405.77	1142.24	1142.24
135.0	2610.75	2416.45	2196.41	2033.13	1885.65	1714.18	1585.43	1425.67	1303.35
180.0	3054.35	2807.38	2528.82	2332.18	2159.54	1962.90	1821.86	1688.43	1533.35
225.0	2745.35	2473.80	2284.19	2108.62	1949.44	1775.05	1648.64	1529.84	1412.79
270.0	2982.37	2740.67	2467.37	2272.49	2104.53	1944.18	1768.61	1639.27	1518.13
315.0	2596.70	2393.63	2212.79	2051.27	1866.93	1734.08	1611.18	1467.80	1161.73
360.0	2242.64	2082.87	1932.47	1763.93	1641.03	1521.06	1404.60	1149.32	1149.32

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1033.80	889.89	775.72	663.35	531.33	443.37	376.59	309.17	263.59
45.0	1176.36	1034.15	920.62	808.25	695.89	565.39	473.51	403.28	333.64
90.0	1026.89	914.18	803.69	694.78	563.34	472.86	404.45	349.32	291.91
135.0	1185.14	1068.09	926.47	814.11	703.50	596.40	481.70	410.89	355.29
180.0	1412.21	1294.58	1179.29	1033.57	917.11	801.23	688.28	560.70	474.68
225.0	1151.84	1151.84	1039.77	896.97	781.51	669.03	541.68	457.59	390.87
270.0	1373.00	1257.71	1143.00	999.62	883.16	766.70	625.66	526.18	441.32
315.0	1161.73	1108.01	994.47	880.65	737.38	626.02	524.30	439.74	359.91
360.0	1033.80	889.89	775.72	663.35	531.33	443.37	376.59	309.17	263.59

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	225.72	193.36	159.24	136.77	118.10	102.77	87.08	77.25	68.12
45.0	297.94	297.94	202.20	174.63	150.64	127.29	111.84	98.61	87.67
90.0	254.75	212.90	184.87	160.70	135.89	118.68	103.23	89.77	77.43
135.0	295.60	295.60	246.96	188.50	156.14	134.60	112.36	97.32	84.51
180.0	407.38	338.90	304.96	304.96	209.57	180.95	154.85	127.40	109.67
225.0	323.28	278.10	239.06	205.53	170.24	146.36	126.17	108.85	90.65
270.0	375.19	310.23	298.52	298.52	193.89	161.35	139.52	121.38	102.12
315.0	308.41	265.11	228.12	188.79	162.52	139.69	117.75	103.00	91.18
360.0	225.72	193.36	159.24	136.77	118.10	102.77	87.08	77.25	68.12

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	61.86	56.59	52.55	49.86	48.11	47.46	46.64	45.59	45.53
45.0	76.43	68.30	62.21	58.23	54.07	51.62	50.68	49.28	48.16
90.0	69.76	63.38	59.17	54.95	51.91	50.50	49.45	48.05	47.23
135.0	72.51	65.49	59.34	54.84	51.50	48.75	47.11	46.47	45.35
180.0	94.75	82.52	70.70	63.56	57.82	52.49	50.04	47.40	45.65
225.0	78.65	67.77	61.27	55.71	51.03	48.63	46.88	45.65	45.12
270.0	88.60	77.37	66.42	60.04	54.13	50.62	48.34	46.47	45.71
315.0	78.77	70.29	63.20	56.88	53.49	51.15	49.51	48.34	47.29
360.0	61.86	56.59	52.55	49.86	48.11	47.46	46.64	45.59	45.53

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	45.30	43.89	42.37	40.85	37.10	34.06	31.78	28.03	25.11
45.0	47.93	47.46	46.29	44.30	42.60	39.68	36.28	32.95	30.02
90.0	46.88	45.94	44.13	42.66	39.80	36.75	34.00	30.49	27.33
135.0	44.77	44.89	44.59	43.60	42.37	40.03	37.16	34.12	30.96
180.0	45.41	44.42	43.95	44.24	43.83	42.78	41.90	39.97	37.10
225.0	44.36	44.30	44.48	43.95	42.78	41.90	38.98	35.99	33.30
270.0	45.35	44.65	44.54	44.42	43.48	42.14	40.26	37.51	34.41
315.0	46.53	46.35	45.65	44.36	42.43	40.32	37.34	33.47	31.02
360.0	45.30	43.89	42.37	40.85	37.10	34.06	31.78	28.03	25.11

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.82	21.24	20.07	19.25	18.49	17.85	17.38	16.91	16.44
45.0	26.80	24.52	22.41	21.13	20.13	19.14	18.49	17.79	17.26
90.0	24.81	23.00	21.19	20.13	19.14	18.49	17.85	17.21	16.80
135.0	27.80	24.87	22.94	21.01	19.90	19.02	18.32	17.62	17.09
180.0	33.65	31.08	27.68	24.93	22.65	21.01	19.84	18.79	18.14
225.0	29.85	26.57	23.70	21.95	20.54	19.55	18.61	18.02	17.50
270.0	31.43	28.32	25.16	22.77	21.19	19.96	19.14	18.38	17.79
315.0	27.74	24.17	22.36	20.78	19.66	18.73	18.02	17.62	17.09
360.0	22.82	21.24	20.07	19.25	18.49	17.85	17.38	16.91	16.44

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.09	15.80	15.51	15.22	14.92	14.51	14.22	13.87	13.46
45.0	16.85	16.44	16.04	15.74	15.45	15.16	14.69	14.40	13.99
90.0	16.44	15.98	15.74	15.45	15.22	14.75	14.40	14.05	13.69
135.0	16.62	16.15	15.86	15.51	15.27	15.04	14.75	14.34	14.05
180.0	17.44	16.97	16.56	16.15	15.86	15.51	15.27	14.92	14.63
225.0	16.97	16.50	16.15	15.80	15.51	15.22	14.98	14.57	14.28
270.0	17.26	16.85	16.33	16.04	15.74	15.39	15.16	14.86	14.51
315.0	16.62	16.27	15.92	15.57	15.33	15.04	14.69	14.46	14.16
360.0	16.09	15.80	15.51	15.22	14.92	14.51	14.22	13.87	13.46

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.17	12.87	12.64	12.35	12.17	11.94	11.82	11.70	11.76
45.0	13.58	13.23	12.87	12.64	12.41	12.23	12.00	11.82	11.76
90.0	13.34	13.05	12.70	12.47	12.23	12.06	11.88	11.76	11.76
135.0	13.75	13.34	13.05	12.76	12.47	12.29	12.06	11.88	11.76
180.0	14.34	13.99	13.64	13.34	12.99	12.76	12.47	12.23	12.00
225.0	13.99	13.64	13.34	12.99	12.76	12.47	12.23	12.00	11.88
270.0	14.16	13.81	13.46	13.17	12.87	12.58	12.35	12.11	11.88
315.0	13.75	13.40	13.17	12.82	12.58	12.35	12.17	11.88	11.76
360.0	13.17	12.87	12.64	12.35	12.17	11.94	11.82	11.70	11.76

Intensity data(cd)

C/γ(°)	90.0
0.0	11.70
45.0	11.76
90.0	11.70
135.0	11.65
180.0	11.82
225.0	11.70
270.0	11.76
315.0	11.70
360.0	11.70