NATA LIGHTING CO.,LTD.
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Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client: NT
LumCAT: 62-0085-1
Luminaire: 92.70.427.00
Report No: 20250326-B004
Ballast type: AC
Test No: 20250326-C004
LampCAT: CREE CXA1820
Lamp flux(lm): 2300.1
Number of Lamps: 1
Length(mm): 62
Phm Type: C

Voltage(V): 34.930
Current(A): 0.465
Power (W): 15.710
PF: 0.000
Width(mm): 62
Height(mm): 33

Photometric Results

Lumens(lm): 2109.82, Efficiency(%): 91.73% , Luminous Efficacy(lm/W): 134.30
Central intensity(cd): 10168.960, Maximum intensity(cd): 10168.960
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=41.8
[C90/270]Total=41.8
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.73%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.572%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10168.958	0.000	0	0.00%	0.00%
1.0	10116.933	9.706	9.706	0.42%	0.46%
2.0	9989.903	28.859	38.566	1.25%	1.83%
3.0	9754.028	47.221	85.787	2.05%	4.07%
4.0	9455.471	64.300	150.087	2.80%	7.11%
5.0	9127.338	79.942	230.029	3.48%	10.90%
6.0	8714.607	93.764	323.793	4.08%	15.35%
7.0	8212.815	105.068	428.862	4.57%	20.33%
8.0	7698.633	113.875	542.737	4.95%	25.72%
9.0	7114.974	120.056	662.793	5.22%	31.41%
10.0	6456.377	122.816	785.609	5.34%	37.24%
11.0	5878.979	123.256	908.864	5.36%	43.08%
12.0	5195.335	121.058	1029.923	5.26%	48.82%
13.0	4554.257	115.703	1145.626	5.03%	54.30%
14.0	3965.868	109.057	1254.682	4.74%	59.47%
15.0	3355.032	100.505	1355.187	4.37%	64.23%
16.0	2845.513	90.855	1446.042	3.95%	68.54%
17.0	2382.156	81.409	1527.451	3.54%	72.40%
18.0	1949.575	71.421	1598.872	3.11%	75.78%
19.0	1491.341	59.865	1658.737	2.60%	78.62%
20.0	1186.888	49.019	1707.756	2.13%	80.94%
21.0	999.421	41.982	1749.738	1.83%	82.93%
22.0	802.288	36.206	1785.944	1.57%	84.65%
23.0	652.509	30.526	1816.469	1.33%	86.10%
24.0	524.420	25.732	1842.201	1.12%	87.32%
25.0	436.678	21.853	1864.054	0.95%	88.35%
26.0	363.964	18.899	1882.954	0.82%	89.25%
27.0	309.362	16.473	1899.427	0.72%	90.03%
28.0	270.094	14.671	1914.097	0.64%	90.72%
29.0	243.129	13.427	1927.525	0.58%	91.36%
30.0	201.769	12.012	1939.537	0.52%	91.93%
31.0	178.282	10.576	1950.113	0.46%	92.43%
32.0	150.284	9.413	1959.526	0.41%	92.88%
33.0	131.020	8.287	1967.813	0.36%	93.27%
34.0	115.226	7.452	1975.266	0.32%	93.62%
35.0	103.323	6.787	1982.053	0.30%	93.94%
36.0	92.145	6.224	1988.277	0.27%	94.24%
37.0	82.453	5.694	1993.971	0.25%	94.51%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	75.405	5.269	1999.24	0.23%	94.76%
39.0	68.764	4.921	2004.161	0.21%	94.99%
40.0	63.875	4.626	2008.787	0.20%	95.21%
41.0	59.771	4.403	2013.19	0.19%	95.42%
42.0	56.301	4.217	2017.407	0.18%	95.62%
43.0	53.923	4.083	2021.49	0.18%	95.81%
44.0	51.598	3.983	2025.473	0.17%	96.00%
45.0	49.793	3.897	2029.369	0.17%	96.19%
46.0	48.307	3.836	2033.206	0.17%	96.37%
47.0	46.995	3.790	2036.996	0.16%	96.55%
48.0	45.709	3.748	2040.744	0.16%	96.73%
49.0	44.364	3.699	2044.443	0.16%	96.90%
50.0	43.132	3.648	2048.091	0.16%	97.07%
51.0	41.606	3.585	2051.676	0.16%	97.24%
52.0	40.254	3.513	2055.189	0.15%	97.41%
53.0	38.768	3.437	2058.626	0.15%	97.57%
54.0	37.063	3.342	2061.968	0.15%	97.73%
55.0	35.425	3.236	2065.204	0.14%	97.89%
56.0	33.866	3.131	2068.335	0.14%	98.03%
57.0	32.260	3.023	2071.359	0.13%	98.18%
58.0	30.522	2.903	2074.262	0.13%	98.31%
59.0	28.930	2.779	2077.041	0.12%	98.45%
60.0	27.198	2.652	2079.693	0.12%	98.57%
61.0	25.566	2.518	2082.211	0.11%	98.69%
62.0	23.987	2.388	2084.599	0.10%	98.80%
63.0	22.355	2.254	2086.853	0.10%	98.91%
64.0	20.950	2.125	2088.977	0.09%	99.01%
65.0	19.411	1.997	2090.975	0.09%	99.11%
66.0	17.972	1.865	2092.84	0.08%	99.20%
67.0	16.660	1.741	2094.581	0.08%	99.28%
68.0	15.374	1.623	2096.204	0.07%	99.35%
69.0	14.015	1.499	2097.703	0.07%	99.43%
70.0	12.716	1.373	2099.076	0.06%	99.49%
71.0	11.584	1.256	2100.332	0.05%	99.55%
72.0	10.571	1.152	2101.484	0.05%	99.60%
73.0	9.739	1.062	2102.546	0.05%	99.66%
74.0	8.953	0.983	2103.529	0.04%	99.70%
75.0	8.213	0.907	2104.436	0.04%	99.74%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.381	0.828	2105.264	0.04%	99.78%
77.0	6.648	0.748	2106.012	0.03%	99.82%
78.0	5.968	0.675	2106.687	0.03%	99.85%
79.0	5.156	0.598	2107.285	0.03%	99.88%
80.0	4.543	0.523	2107.808	0.02%	99.90%
81.0	3.784	0.450	2108.258	0.02%	99.93%
82.0	3.177	0.377	2108.636	0.02%	99.94%
83.0	2.598	0.314	2108.949	0.01%	99.96%
84.0	2.038	0.253	2109.202	0.01%	99.97%
85.0	1.485	0.192	2109.394	0.01%	99.98%
86.0	1.046	0.138	2109.533	0.01%	99.99%
87.0	0.766	0.099	2109.632	0.00%	99.99%
88.0	0.580	0.074	2109.706	0.00%	99.99%
89.0	0.513	0.060	2109.765	0.00%	100.00%
90.0	0.460	0.053	2109.819	0.00%	100.00%

Zonal flux distribution table

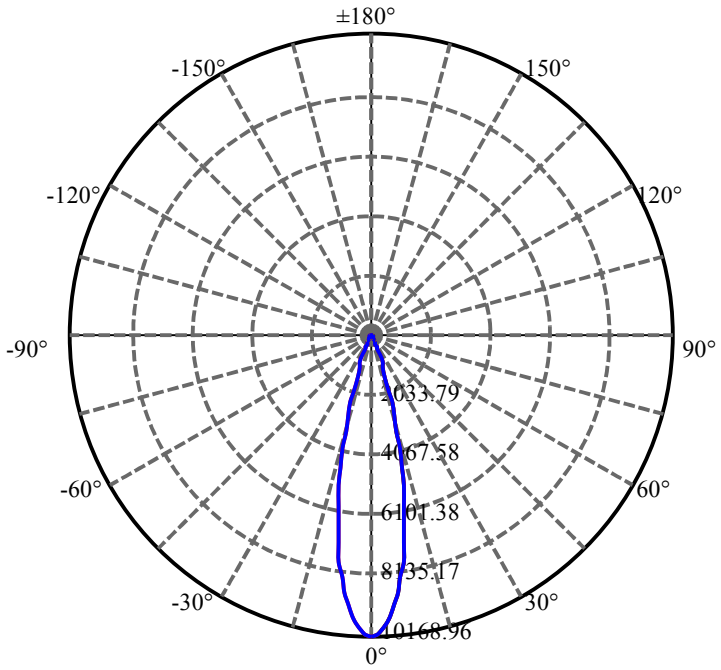
ZONAL LUMEN SUMMARY

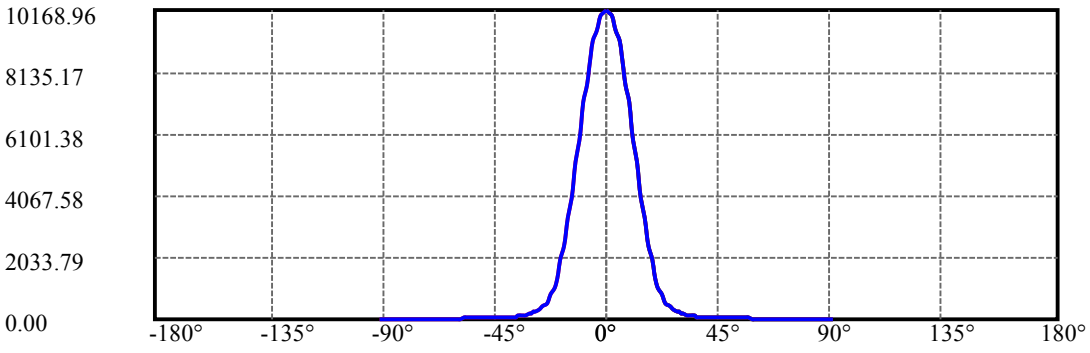
Zone	Lumens	%Lamp	%Fixt
0-30	1939.54	84.32%	91.93%
0-40	2008.79	87.34%	95.21%
0-60	2079.69	90.42%	98.57%
0-90	2109.77	91.73%	100.00%
0-120	2109.77	91.73%	100.00%
0-180	2109.82	91.73%	100.00%
60-90	30.07	1.31%	1.43%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.59	1687.86	73.38%	80.00%

ZONAL LUMEN SUMMARY

0-10	785.61
10-20	922.15
20-30	231.78
30-40	69.25
40-50	39.30
50-60	31.60
60-70	19.38
70-80	8.73
80-90	1.96
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):

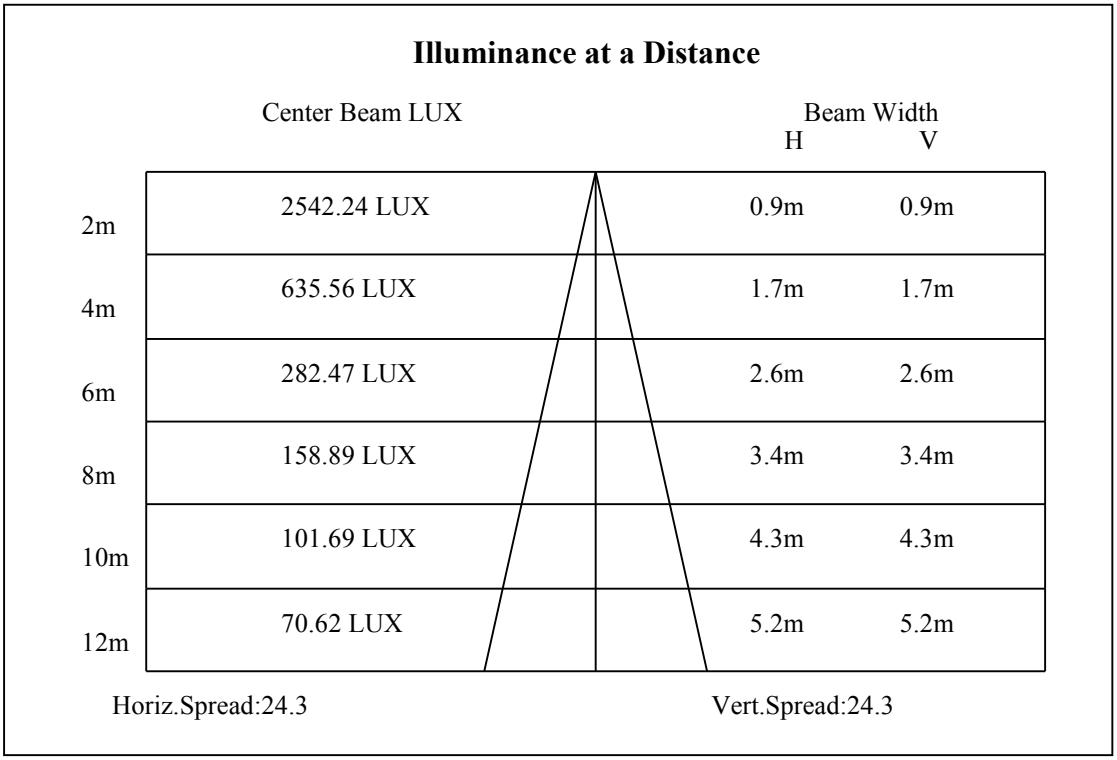
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:20.9 Right:20.9
:C90/270Left:20.9 Right:20.9

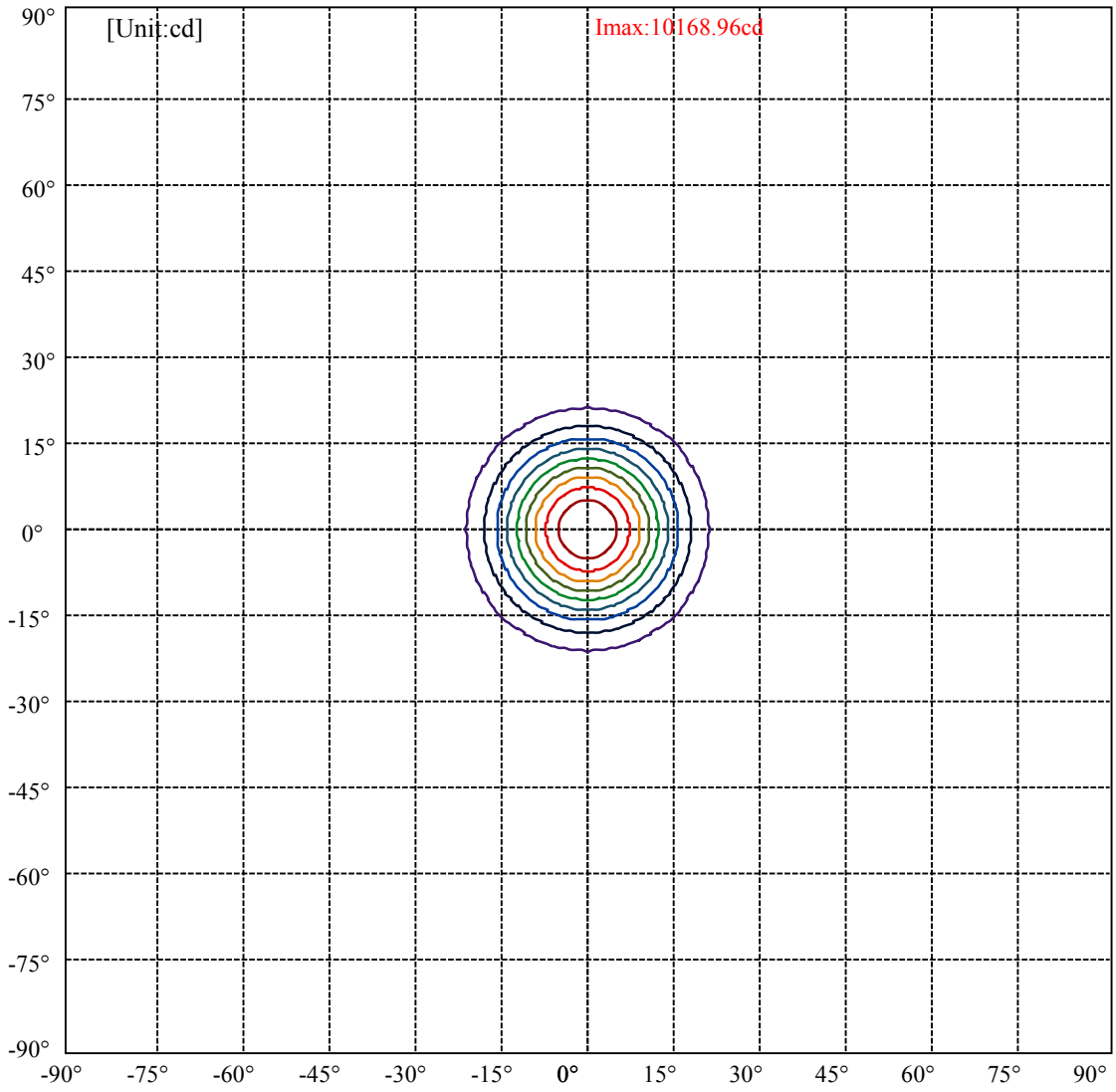
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Lux distance Curve



Equipment: GMS 1800 Date: 2025/3/26 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.30

ISO-Intensity(V-H)



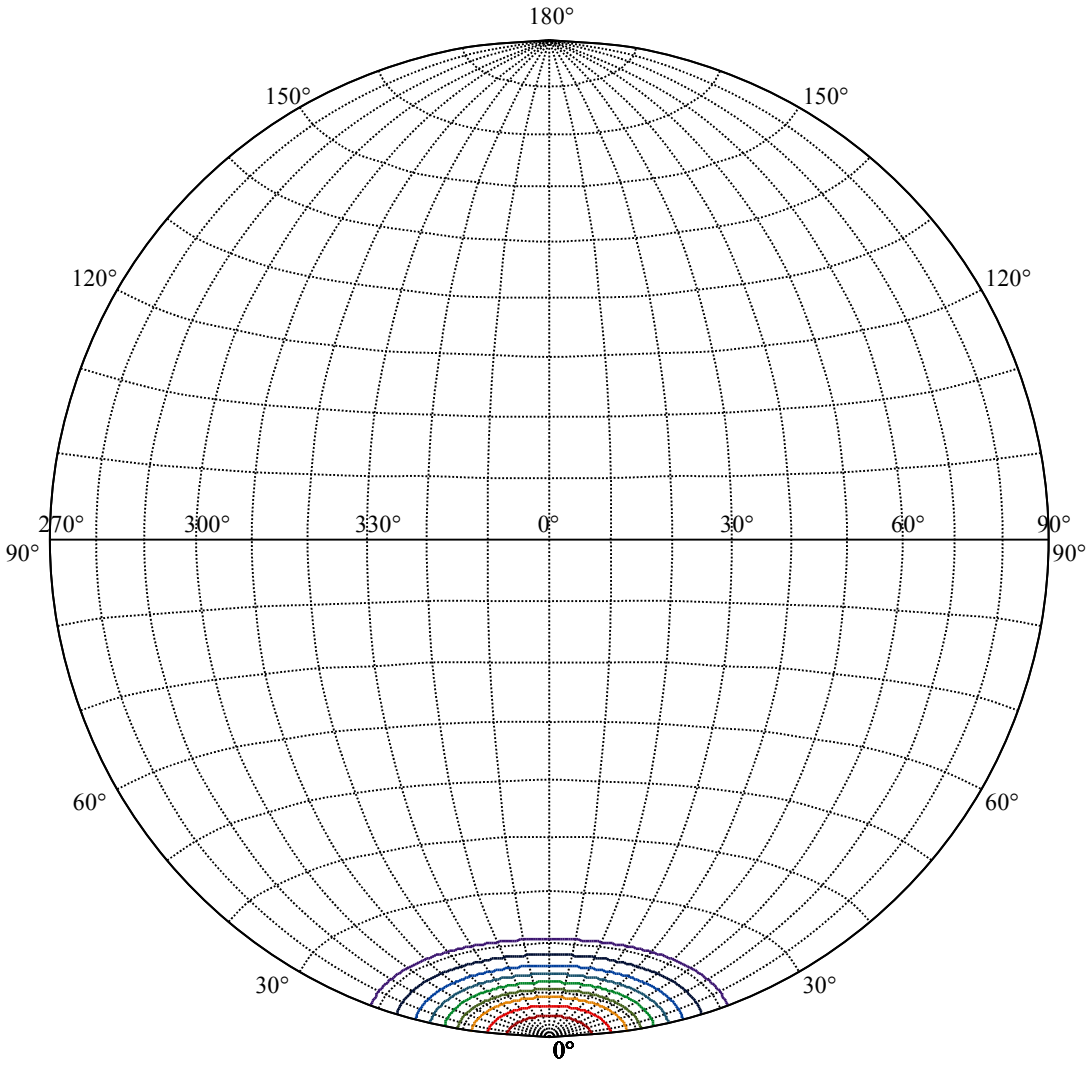
(10%Imax) 1016.9
(20%Imax) 2033.79
(30%Imax) 3050.69
(40%Imax) 4067.58
(50%Imax) 5084.48
(60%Imax) 6101.38
(70%Imax) 7118.27
(80%Imax) 8135.17
(90%Imax) 9152.06

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/3/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:10168.96

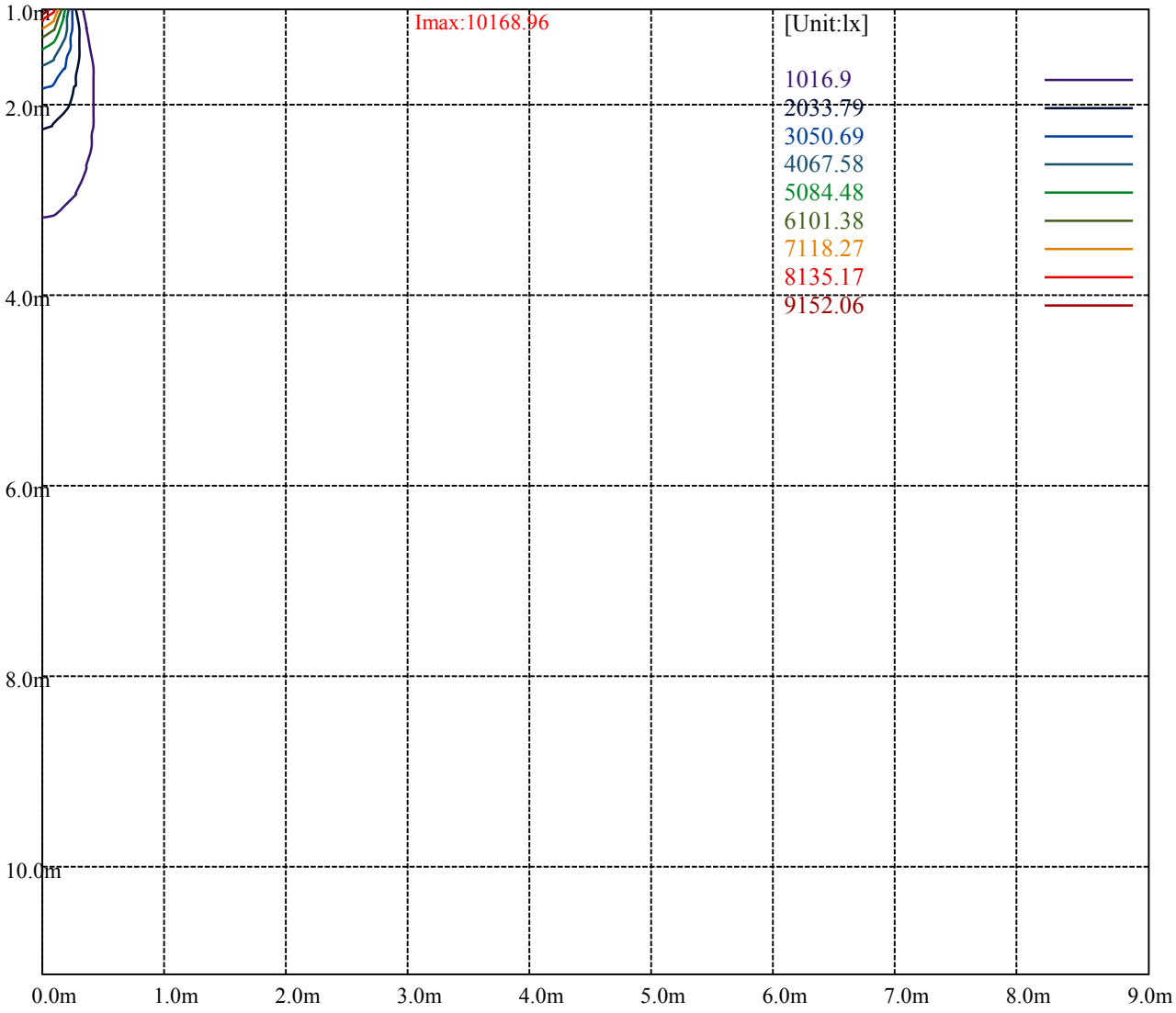
(10%Imax) 1016.9
(20%Imax) 2033.79
(30%Imax) 3050.69
(40%Imax) 4067.58
(50%Imax) 5084.48
(60%Imax) 6101.38
(70%Imax) 7118.27
(80%Imax) 8135.17
(90%Imax) 9152.06

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/3/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2025/3/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

NT NT 62-0087

Luminance Limitting Curve(no luminous side)

Luminance Table

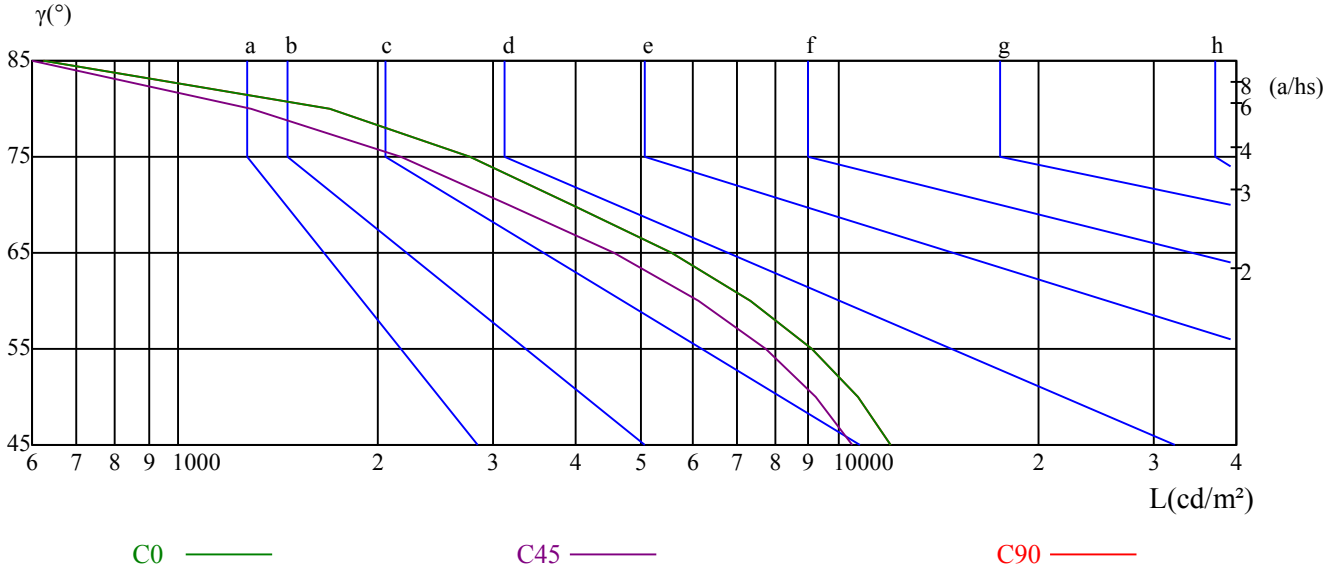
γ	45	50	55	60	65	70	75	80	85
C0	11955	10681	9128	7363	5580	3928	2764	1694	626
C45	10452	9202	7743	6142	4571	3153	2167	1292	462
C90	11955	10681	9128	7363	5580	3928	2764	1694	626

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11949	11949	11949	8255	8255	8255	4434	4434	4434

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

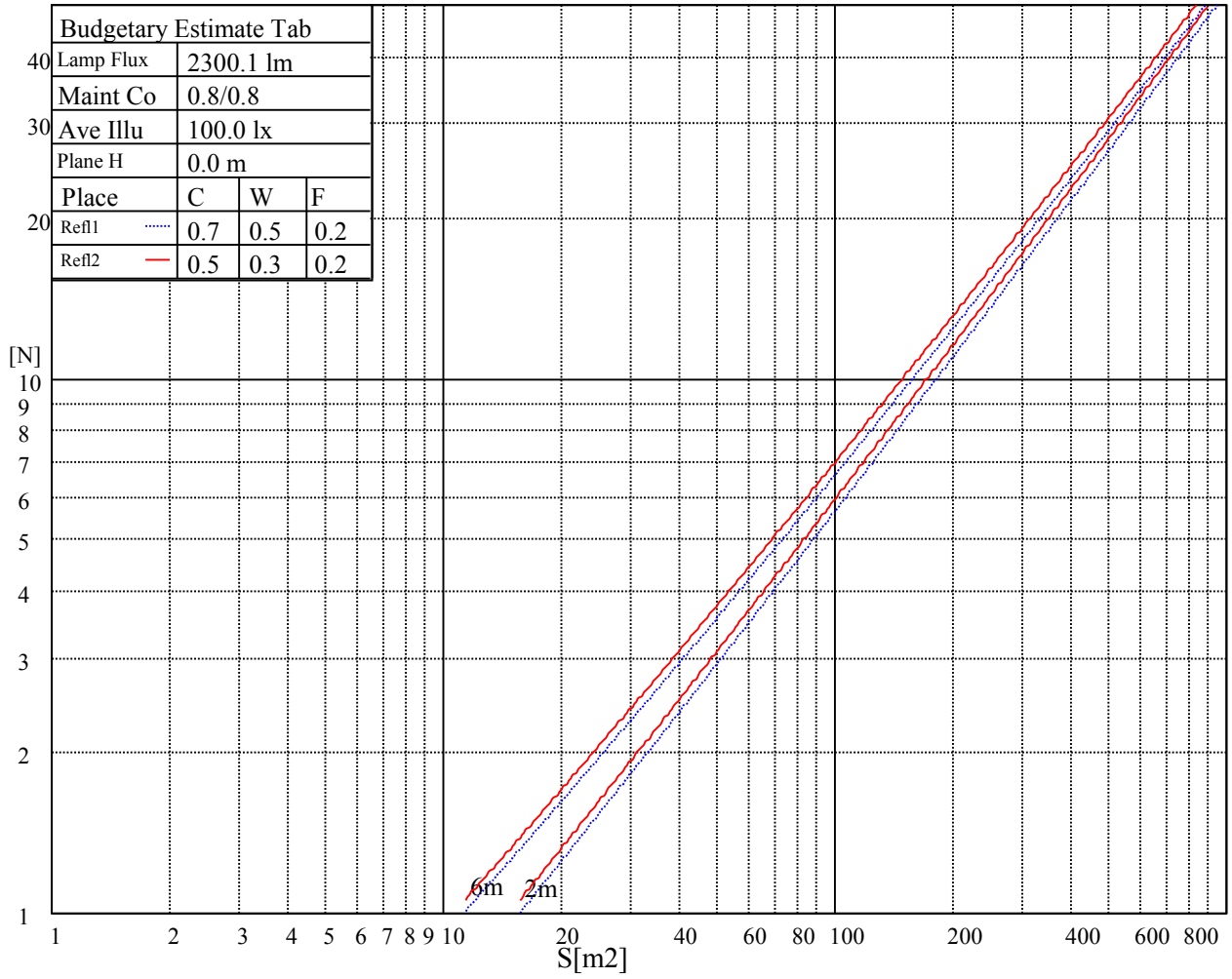


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	12.05	13.00	12.41	13.31	13.63	11.89	12.83	12.25	13.15	13.46
	3H	12.71	13.56	13.10	13.89	14.24	12.50	13.35	12.89	13.69	14.03
	4H	12.86	13.64	13.26	14.00	14.36	12.64	13.42	13.04	13.77	14.14
	6H	12.92	13.63	13.34	14.01	14.41	12.68	13.39	13.10	13.77	14.17
	8H	12.88	13.56	13.30	13.94	14.35	12.63	13.31	13.06	13.70	14.11
	12H	12.82	13.46	13.24	13.86	14.27	12.57	13.21	13.00	13.61	14.03
4H	2H	12.30	13.08	12.70	13.43	13.80	12.16	12.94	12.56	13.29	13.66
	3H	13.05	13.70	13.47	14.10	14.51	12.86	13.52	13.29	13.91	14.33
	4H	13.30	13.86	13.73	14.28	14.73	13.10	13.66	13.54	14.08	14.53
	6H	13.36	13.85	13.83	14.31	14.76	13.14	13.64	13.61	14.09	14.54
	8H	13.34	13.80	13.83	14.26	14.74	13.12	13.58	13.61	14.04	14.51
	12H	13.31	13.73	13.80	14.18	14.71	13.08	13.51	13.58	13.96	14.48
8H	4H	13.26	13.72	13.75	14.18	14.66	13.07	13.53	13.56	13.99	14.47
	6H	13.36	13.73	13.87	14.21	14.73	13.16	13.53	13.66	14.01	14.52
	8H	13.41	13.72	13.95	14.24	14.74	13.20	13.51	13.73	14.03	14.53
	12H	13.38	13.62	13.93	14.14	14.66	13.17	13.41	13.71	13.92	14.45
12H	4H	13.22	13.64	13.71	14.10	14.62	13.04	13.46	13.53	13.91	14.43
	6H	13.37	13.68	13.90	14.20	14.70	13.17	13.48	13.70	14.00	14.50
	8H	13.39	13.62	13.93	14.14	14.66	13.18	13.41	13.72	13.93	14.46

Variation with the observer position at spacings:		
S = 1.0H	1.0/-0.8	1.0/-0.8
S = 1.5H	1.9/-1.5	1.9/-1.5
S = 2.0H	4.0/-2.1	4.0/-2.1
Standard tables:	BK2	BK2
Uncorrected UGR	-4.7	-4.7

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

Budgetary Estimate Table



Equipment: GMS 1800
Temperature(°C): 25.0

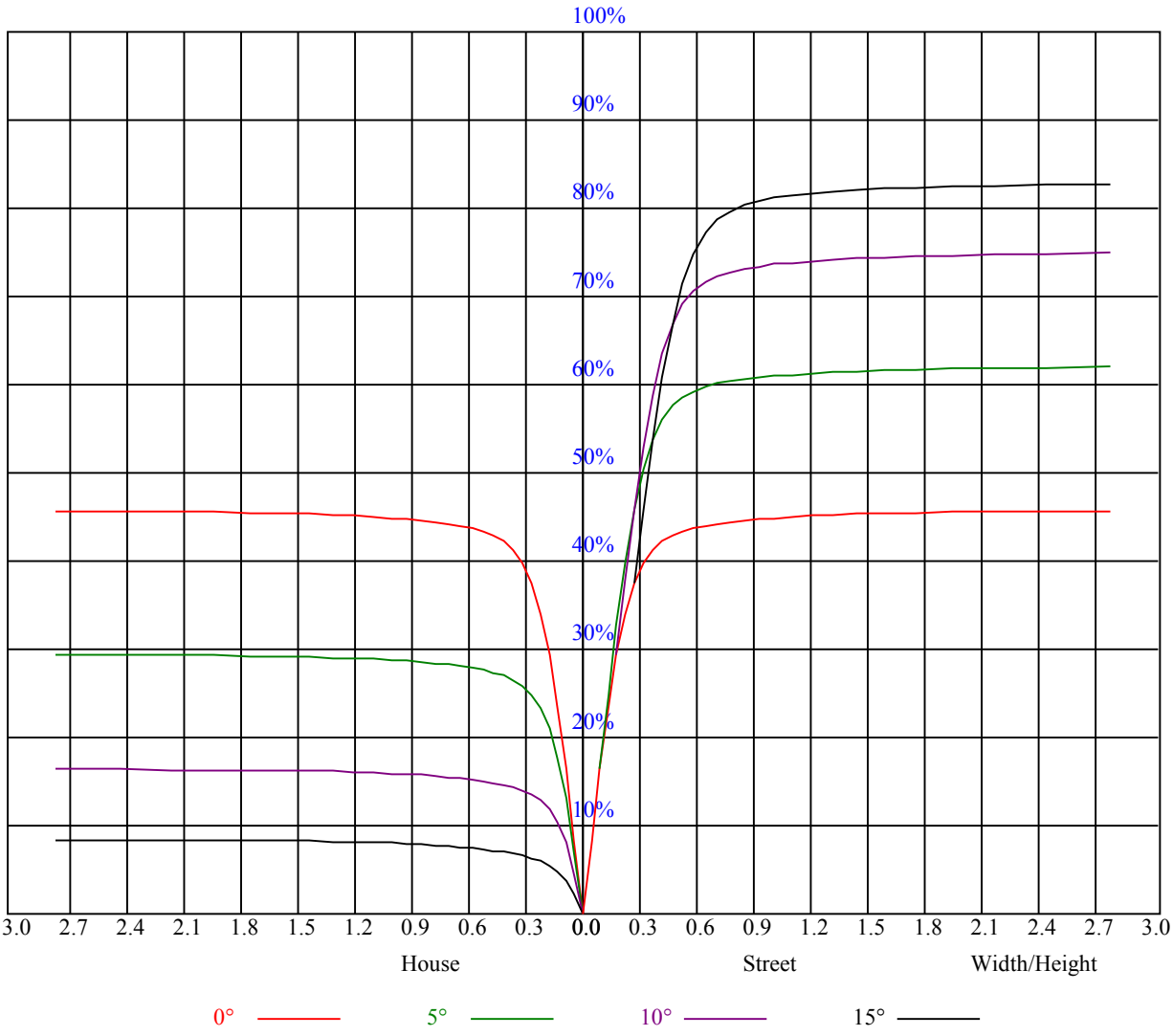
Date: 2025/3/26
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.30

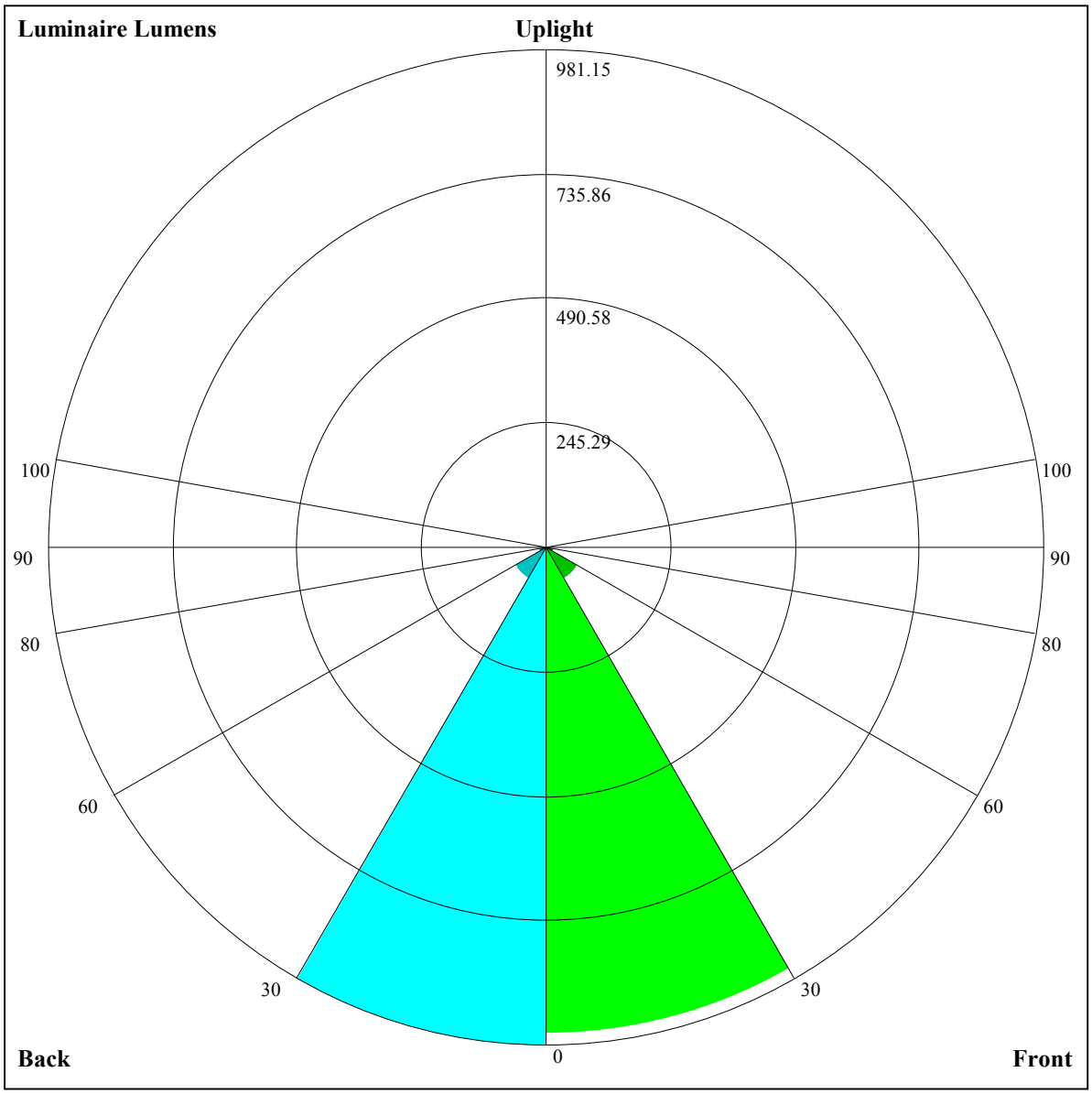
Utilization factor table for indoor luminaire

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	1.09	1.09	1.09	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	1.00	1.01	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.90	0.88
2	0.98	0.95	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.91	0.90	0.88	0.89	0.87	0.86	0.85
3	0.94	0.90	0.88	0.93	0.90	0.87	0.90	0.88	0.86	0.88	0.86	0.84	0.86	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.86	0.83	0.87	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.83	0.80	0.78	0.82	0.80	0.78	0.77
6	0.84	0.80	0.77	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.74
7	0.81	0.77	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
8	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
9	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.69
10	0.74	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2025/3/26	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.30



Luminaire Lumens:
FL=958.41,FM=69.46,FH=13.95,FVH=1.01
BL=981.15,BM=72.02,BH=14.21,BVH=1.05
UL=0,UH=0

BUG Rating:B2-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	10172.16	10058.11	9864.14	9580.64	9226.79	8805.27	8331.52	7804.48	7222.02
45.0	10193.47	10156.70	10087.42	9820.44	9519.89	9305.66	8904.92	8441.83	7911.59
90.0	10118.33	9972.32	9734.11	9429.83	9041.34	8584.11	8068.80	7502.86	6890.02
135.0	10191.87	10123.66	9965.92	9727.72	9407.44	9031.75	8768.50	8069.33	7735.20
180.0	10172.16	10179.08	10143.38	9920.09	9668.03	9479.39	9107.42	8680.04	8187.10
225.0	10193.47	10116.73	9955.80	9726.65	9411.17	9057.33	8613.42	8102.90	7544.43
270.0	10118.33	10181.21	10146.58	10017.08	9862.54	9597.69	9180.96	8847.90	8374.68
315.0	10191.87	10147.64	10021.88	9809.78	9506.56	9157.51	8741.32	8253.18	7724.01
360.0	10172.16	10058.11	9864.14	9580.64	9226.79	8805.27	8331.52	7804.48	7222.02

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6603.86	5960.11	5305.71	4652.91	4026.22	3435.77	2884.21	2389.15	2120.57
45.0	7326.47	6700.84	6062.96	5409.09	4752.56	4114.68	3518.90	2965.75	2472.28
90.0	6246.28	5586.55	4936.95	4296.93	3679.30	3107.50	2587.39	2126.43	1717.70
135.0	7139.95	6239.89	5853.53	5205.53	4555.92	3923.37	3335.05	2795.22	2310.28
180.0	7643.01	7037.10	6407.75	5760.81	5098.41	4450.94	3832.24	3243.39	2716.88
225.0	6957.70	6330.48	5688.33	5039.80	4402.98	3794.94	3230.07	2708.36	2240.47
270.0	7863.63	7283.84	6655.55	6012.34	5369.13	4726.98	4105.62	3517.83	2974.81
315.0	7138.89	6512.20	6121.05	5185.28	4549.53	4172.77	3346.77	3017.97	2504.26
360.0	6603.86	5960.11	5305.71	4652.91	4026.22	3435.77	2884.21	2389.15	2120.57

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1713.43	994.44	994.44	825.04	657.01	527.62	428.82	355.07	298.53
45.0	2021.98	1632.43	1299.37	1025.46	813.37	706.25	515.47	419.55	372.12
90.0	1312.16	988.21	943.07	748.35	593.17	476.73	394.45	331.14	278.33
135.0	1863.71	1479.49	1169.34	924.21	729.17	580.49	474.97	392.37	326.83
180.0	2241.54	1818.95	1454.98	1157.09	921.01	732.36	589.55	477.64	409.96
225.0	1907.94	1316.96	1006.91	1006.91	814.06	667.56	547.18	449.98	378.57
270.0	2478.68	2037.97	1651.62	1332.94	1074.49	868.79	706.25	625.78	478.70
315.0	2057.15	1662.27	975.37	975.37	816.03	660.26	538.66	441.88	368.66
360.0	1713.43	994.44	994.44	825.04	657.01	527.62	428.82	355.07	298.53

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	253.87	217.74	187.53	162.64	140.63	130.29	109.35	97.36	90.81
45.0	314.04	274.07	274.07	190.25	165.41	143.30	125.87	112.44	98.69
90.0	240.60	208.36	179.75	156.67	137.75	121.02	108.87	94.59	86.70
135.0	287.93	279.40	238.21	186.52	164.29	143.83	126.35	112.12	99.60
180.0	345.48	280.47	280.47	239.17	183.64	161.74	141.33	123.42	109.40
225.0	320.81	273.22	235.28	203.51	175.43	153.21	133.65	117.82	109.94
270.0	400.37	361.47	307.11	278.33	278.33	192.16	166.05	144.42	125.98
315.0	311.80	266.02	242.63	197.07	180.76	156.73	136.69	119.64	105.46
360.0	253.87	217.74	187.53	162.64	140.63	130.29	109.35	97.36	90.81

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	81.96	74.39	68.16	63.04	58.99	55.74	53.08	51.00	49.19
45.0	89.15	79.99	75.51	67.09	62.46	59.90	55.16	53.29	50.84
90.0	78.34	70.34	65.71	60.96	57.13	53.93	51.42	49.45	47.80
135.0	89.21	80.25	72.95	67.25	62.35	58.57	55.42	52.81	50.73
180.0	96.83	86.22	78.50	71.25	65.49	60.91	56.81	55.37	52.54
225.0	98.00	87.24	79.35	72.74	67.73	63.26	59.74	56.86	54.57
270.0	110.42	97.84	87.77	79.08	73.38	66.56	62.94	59.26	55.79
315.0	93.26	83.35	75.30	68.69	63.47	59.31	55.85	53.34	51.32
360.0	81.96	74.39	68.16	63.04	58.99	55.74	53.08	51.00	49.19

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	47.64	46.47	45.30	44.18	43.01	41.67	40.23	38.74	37.89
45.0	48.76	47.06	45.51	44.12	42.42	41.09	39.49	38.16	36.61
90.0	46.36	45.08	43.91	42.90	41.67	40.55	39.06	37.73	36.18
135.0	49.67	47.80	47.00	45.83	44.66	43.38	42.15	40.71	39.11
180.0	49.77	48.87	47.16	45.99	44.44	43.22	41.73	40.34	38.80
225.0	52.65	50.79	49.45	47.80	46.36	44.92	43.32	41.78	40.07
270.0	53.88	52.17	50.68	49.08	47.75	46.42	44.92	43.43	41.83
315.0	49.61	48.23	46.95	45.78	44.60	43.80	41.94	41.14	39.65
360.0	47.64	46.47	45.30	44.18	43.01	41.67	40.23	38.74	37.89

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.70	34.11	33.09	31.39	29.68	28.03	26.49	24.83	23.18
45.0	34.90	33.36	31.76	30.11	28.51	27.66	25.53	24.09	23.23
90.0	34.59	32.83	31.12	30.11	28.40	26.75	25.15	23.50	21.90
135.0	37.52	35.81	34.11	32.40	30.64	28.88	27.18	25.53	23.82
180.0	37.25	35.65	33.95	32.51	31.01	29.36	27.71	26.33	24.83
225.0	38.37	36.66	35.22	33.41	31.23	29.74	27.92	26.11	24.30
270.0	40.18	38.58	36.82	35.06	33.31	31.44	29.63	27.87	26.06
315.0	38.00	36.40	34.85	33.09	31.39	29.58	27.98	26.27	24.57
360.0	35.70	34.11	33.09	31.39	29.68	28.03	26.49	24.83	23.18

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.64	20.09	18.65	17.21	15.83	14.49	13.16	11.72	10.82
45.0	21.26	20.41	19.02	17.80	16.47	15.29	14.18	12.95	11.67
90.0	20.41	18.92	17.48	16.09	14.76	13.43	11.99	10.87	10.07
135.0	22.22	20.57	18.97	17.80	16.15	14.97	13.64	12.26	11.08
180.0	23.39	21.96	20.78	19.13	18.07	16.73	15.35	14.02	12.68
225.0	22.65	21.00	19.45	17.96	16.52	15.19	13.86	12.52	11.30
270.0	24.35	23.34	21.10	19.56	18.70	17.21	15.83	14.55	13.32
315.0	22.91	21.32	19.82	18.23	16.79	15.67	14.12	12.84	11.72
360.0	21.64	20.09	18.65	17.21	15.83	14.49	13.16	11.72	10.82

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.97	9.17	8.37	7.51	6.77	6.18	5.44	4.53	3.94
45.0	10.76	9.97	9.11	8.26	7.51	6.71	5.92	5.17	4.48
90.0	9.27	8.47	7.73	6.98	6.18	5.49	5.06	4.05	3.62
135.0	10.23	9.43	8.63	7.94	7.14	6.39	5.60	4.96	4.26
180.0	11.40	10.50	9.65	8.90	8.05	7.30	6.50	5.76	5.06
225.0	10.39	9.54	8.79	8.31	7.25	6.45	6.02	5.01	4.58
270.0	11.94	10.87	10.13	9.33	8.53	7.78	7.03	6.29	5.54
315.0	10.60	9.97	9.22	8.47	7.62	6.87	6.18	5.49	4.85
360.0	9.97	9.17	8.37	7.51	6.77	6.18	5.44	4.53	3.94

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.20	2.61	2.13	1.60	1.07	0.75	0.59	0.48	0.48
45.0	3.73	3.09	2.50	1.81	1.23	0.85	0.64	0.53	0.48
90.0	2.77	2.34	1.81	1.44	1.07	0.69	0.69	0.59	0.48
135.0	3.57	2.98	2.50	1.87	1.44	0.96	0.75	0.69	0.59
180.0	4.37	3.68	2.98	2.50	1.71	1.23	0.85	0.64	0.53
225.0	3.62	3.04	2.50	1.97	1.44	0.91	0.64	0.48	0.43
270.0	4.85	4.21	3.36	2.77	2.18	1.65	1.17	0.64	0.53
315.0	4.16	3.46	2.98	2.34	1.76	1.33	0.80	0.59	0.59
360.0	3.20	2.61	2.13	1.60	1.07	0.75	0.59	0.48	0.48

Intensity data(cd)

C/γ(°)	90.0
0.0	0.43
45.0	0.37
90.0	0.37
135.0	0.43
180.0	0.53
225.0	0.43
270.0	0.53
315.0	0.59
360.0	0.43