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

Nata

Client: NT
LumCAT: 61-0210
Luminaire: 92.70.427.00
Report No: 2024719-B015
Ballast type: AC
Test No: 2024719-C015
LampCAT: CITIZEN CLU701
Lamp flux(lm): 1102.2
Number of Lamps: 1
Length(mm): 45
Phm Type: C

Voltage(V): 31.350
Current(A): 0.350
Power (W): 10.970
PF: 0.000
Width(mm): 45
Height(mm): 21

Photometric Results

Lumens(lm): 1025.36, Efficiency(%): 93.03% , Luminous Efficacy(lm/W): 93.47
Central intensity(cd): 2661.193, Maximum intensity(cd): 2661.193
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=34.6
[C90/270]Total=34.6
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.56 C90_270=0.56
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.03%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.309%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2661.193	0.000	0	0.00%	0.00%
1.0	2653.410	2.543	2.543	0.23%	0.25%
2.0	2633.877	7.589	10.132	0.69%	0.99%
3.0	2601.112	12.520	22.652	1.14%	2.21%
4.0	2567.509	17.301	39.953	1.57%	3.90%
5.0	2509.658	21.842	61.795	1.98%	6.03%
6.0	2455.987	26.096	87.891	2.37%	8.57%
7.0	2389.001	30.073	117.963	2.73%	11.50%
8.0	2302.687	33.578	151.541	3.05%	14.78%
9.0	2229.065	36.727	188.268	3.33%	18.36%
10.0	2138.313	39.523	227.791	3.59%	22.22%
11.0	2043.458	41.784	269.576	3.79%	26.29%
12.0	1944.311	43.592	313.168	3.96%	30.54%
13.0	1847.755	45.002	358.17	4.08%	34.93%
14.0	1737.051	45.885	404.055	4.16%	39.41%
15.0	1626.637	46.178	450.234	4.19%	43.91%
16.0	1518.736	46.089	496.322	4.18%	48.40%
17.0	1367.401	44.945	541.267	4.08%	52.79%
18.0	1223.281	42.715	583.982	3.88%	56.95%
19.0	1146.986	41.238	625.22	3.74%	60.98%
20.0	1027.456	39.798	665.018	3.61%	64.86%
21.0	918.563	37.367	702.385	3.39%	68.50%
22.0	791.528	34.365	736.75	3.12%	71.85%
23.0	668.307	30.631	767.382	2.78%	74.84%
24.0	569.753	27.068	794.45	2.46%	77.48%
25.0	470.240	23.647	818.097	2.15%	79.79%
26.0	382.818	20.137	838.234	1.83%	81.75%
27.0	307.444	16.887	855.121	1.53%	83.40%
28.0	248.394	14.073	869.194	1.28%	84.77%
29.0	217.632	12.193	881.386	1.11%	85.96%
30.0	154.827	10.056	891.443	0.91%	86.94%
31.0	120.560	7.664	899.106	0.70%	87.69%
32.0	98.489	6.276	905.382	0.57%	88.30%
33.0	84.613	5.394	910.776	0.49%	88.83%
34.0	72.392	4.751	915.527	0.43%	89.29%
35.0	63.302	4.214	919.742	0.38%	89.70%
36.0	57.955	3.861	923.602	0.35%	90.08%
37.0	53.451	3.633	927.236	0.33%	90.43%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	49.953	3.452	930.687	0.31%	90.77%
39.0	46.655	3.297	933.985	0.30%	91.09%
40.0	44.213	3.169	937.154	0.29%	91.40%
41.0	41.720	3.060	940.214	0.28%	91.70%
42.0	39.613	2.955	943.169	0.27%	91.98%
43.0	37.887	2.871	946.04	0.26%	92.26%
44.0	36.051	2.791	948.831	0.25%	92.54%
45.0	34.769	2.722	951.552	0.25%	92.80%
46.0	33.403	2.666	954.218	0.24%	93.06%
47.0	32.179	2.608	956.827	0.24%	93.32%
48.0	31.181	2.561	959.388	0.23%	93.57%
49.0	30.259	2.523	961.911	0.23%	93.81%
50.0	29.428	2.489	964.4	0.23%	94.05%
51.0	28.668	2.458	966.858	0.22%	94.29%
52.0	28.004	2.432	969.289	0.22%	94.53%
53.0	27.161	2.400	971.689	0.22%	94.77%
54.0	26.516	2.366	974.055	0.21%	95.00%
55.0	25.730	2.332	976.387	0.21%	95.22%
56.0	24.970	2.291	978.678	0.21%	95.45%
57.0	24.397	2.257	980.935	0.20%	95.67%
58.0	23.714	2.225	983.16	0.20%	95.88%
59.0	23.173	2.192	985.352	0.20%	96.10%
60.0	22.587	2.162	987.514	0.20%	96.31%
61.0	22.007	2.128	989.642	0.19%	96.52%
62.0	21.298	2.087	991.729	0.19%	96.72%
63.0	20.531	2.034	993.763	0.18%	96.92%
64.0	19.919	1.985	995.748	0.18%	97.11%
65.0	19.095	1.931	997.679	0.18%	97.30%
66.0	18.386	1.870	999.549	0.17%	97.48%
67.0	17.652	1.812	1001.361	0.16%	97.66%
68.0	16.853	1.748	1003.109	0.16%	97.83%
69.0	16.061	1.679	1004.788	0.15%	97.99%
70.0	15.242	1.608	1006.396	0.15%	98.15%
71.0	14.411	1.533	1007.928	0.14%	98.30%
72.0	13.574	1.455	1009.383	0.13%	98.44%
73.0	12.814	1.380	1010.763	0.13%	98.58%
74.0	12.041	1.307	1012.07	0.12%	98.70%
75.0	11.293	1.233	1013.303	0.11%	98.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.591	1.162	1014.465	0.11%	98.94%
77.0	9.992	1.097	1015.562	0.10%	99.04%
78.0	9.560	1.047	1016.609	0.09%	99.15%
79.0	9.058	1.000	1017.609	0.09%	99.24%
80.0	8.581	0.951	1018.56	0.09%	99.34%
81.0	8.143	0.904	1019.464	0.08%	99.43%
82.0	7.660	0.857	1020.321	0.08%	99.51%
83.0	7.196	0.808	1021.129	0.07%	99.59%
84.0	6.713	0.758	1021.887	0.07%	99.66%
85.0	6.230	0.706	1022.593	0.06%	99.73%
86.0	5.734	0.654	1023.247	0.06%	99.79%
87.0	5.212	0.599	1023.846	0.05%	99.85%
88.0	4.741	0.545	1024.391	0.05%	99.91%
89.0	4.368	0.499	1024.89	0.05%	99.95%
90.0	4.168	0.468	1025.358	0.04%	100.00%

Zonal flux distribution table

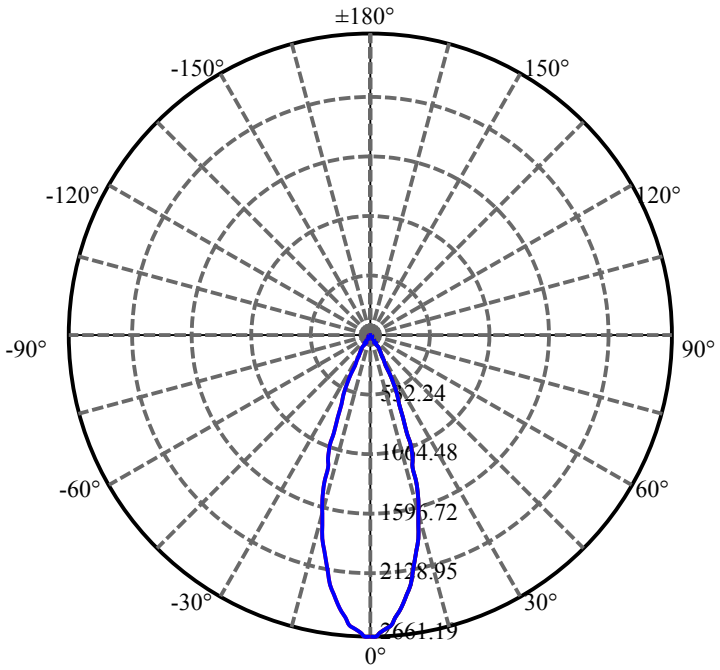
ZONAL LUMEN SUMMARY

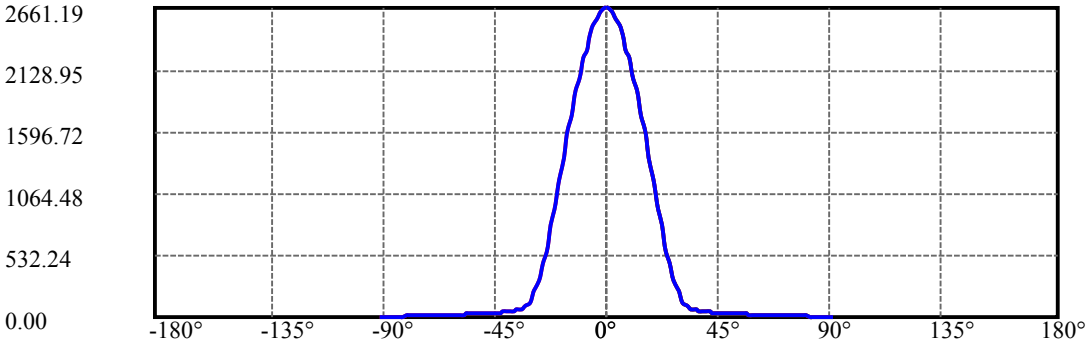
Zone	Lumens	%Lamp	%Fixt
0-30	891.44	80.88%	86.94%
0-40	937.15	85.03%	91.40%
0-60	987.51	89.60%	96.31%
0-90	1024.89	92.99%	99.95%
0-120	1024.89	92.99%	99.95%
0-180	1025.36	93.03%	100.00%
60-90	37.38	3.39%	3.65%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.11	820.29	74.42%	80.00%

ZONAL LUMEN SUMMARY

0-10	227.79
10-20	437.23
20-30	226.42
30-40	45.71
40-50	27.25
50-60	23.11
60-70	18.88
70-80	12.16
80-90	6.33
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):

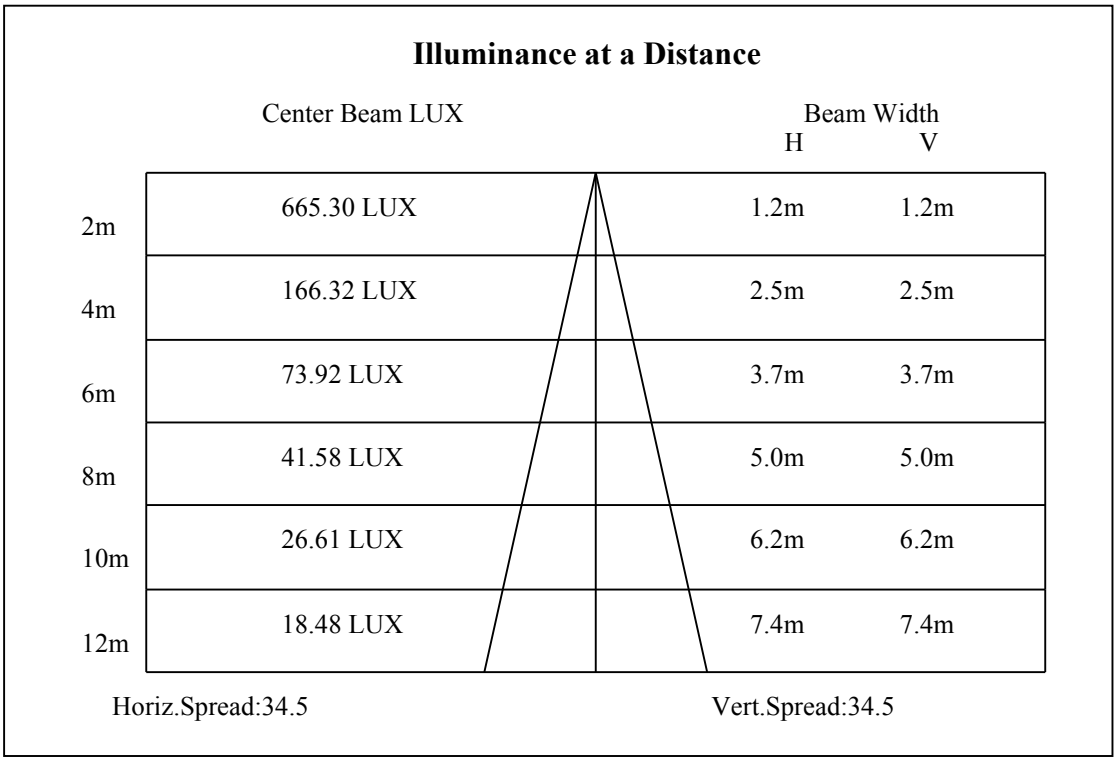
C0/C180:

C90/C270:

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

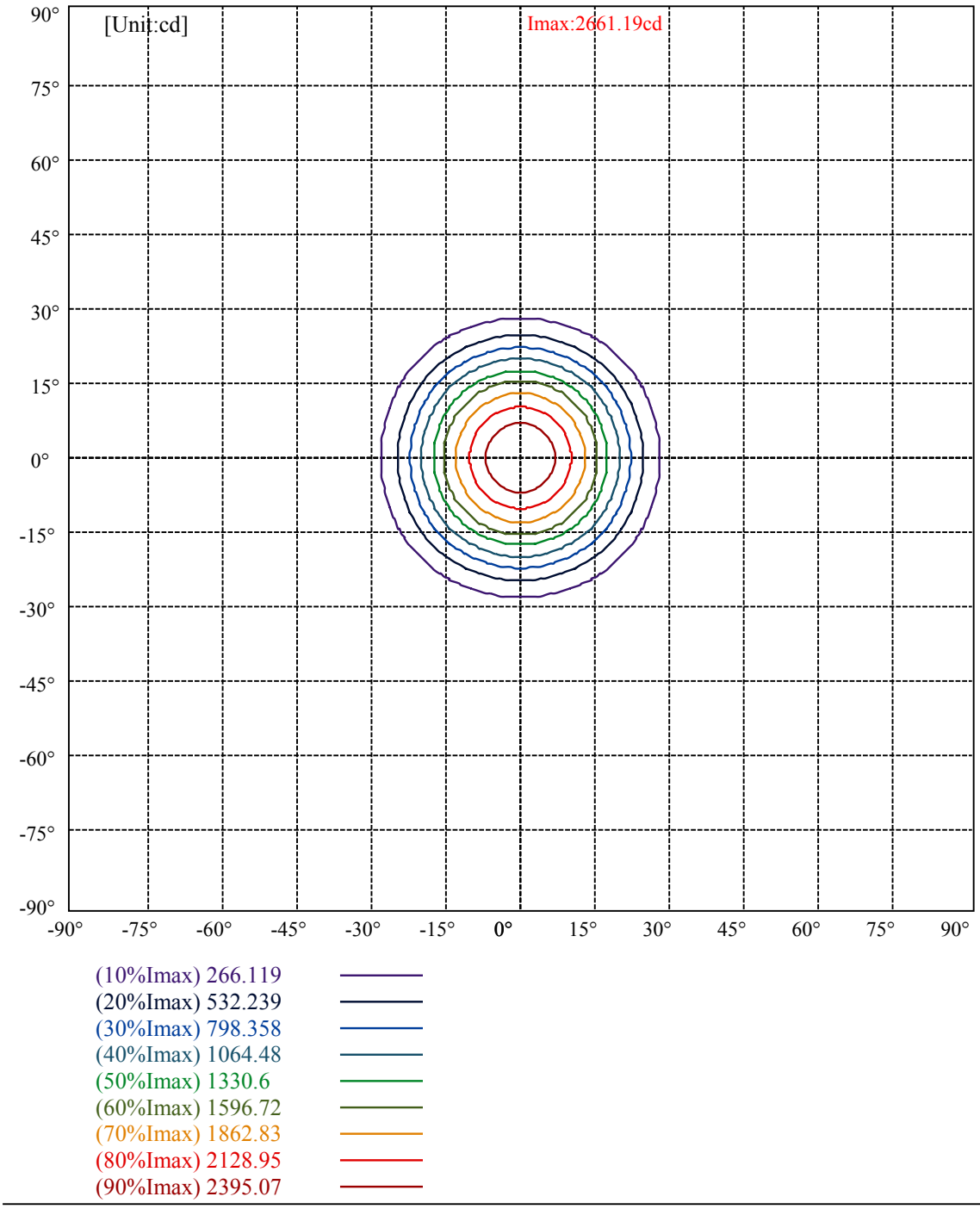
Beam Angle(50%Imax):C0/180Left:17.3 Right:17.3
:C90/270Left:17.3 Right:17.3

Lux distance Curve



Equipment: GMS 1800 Date: 2024/7/19 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.18

ISO-Intensity(V-H)



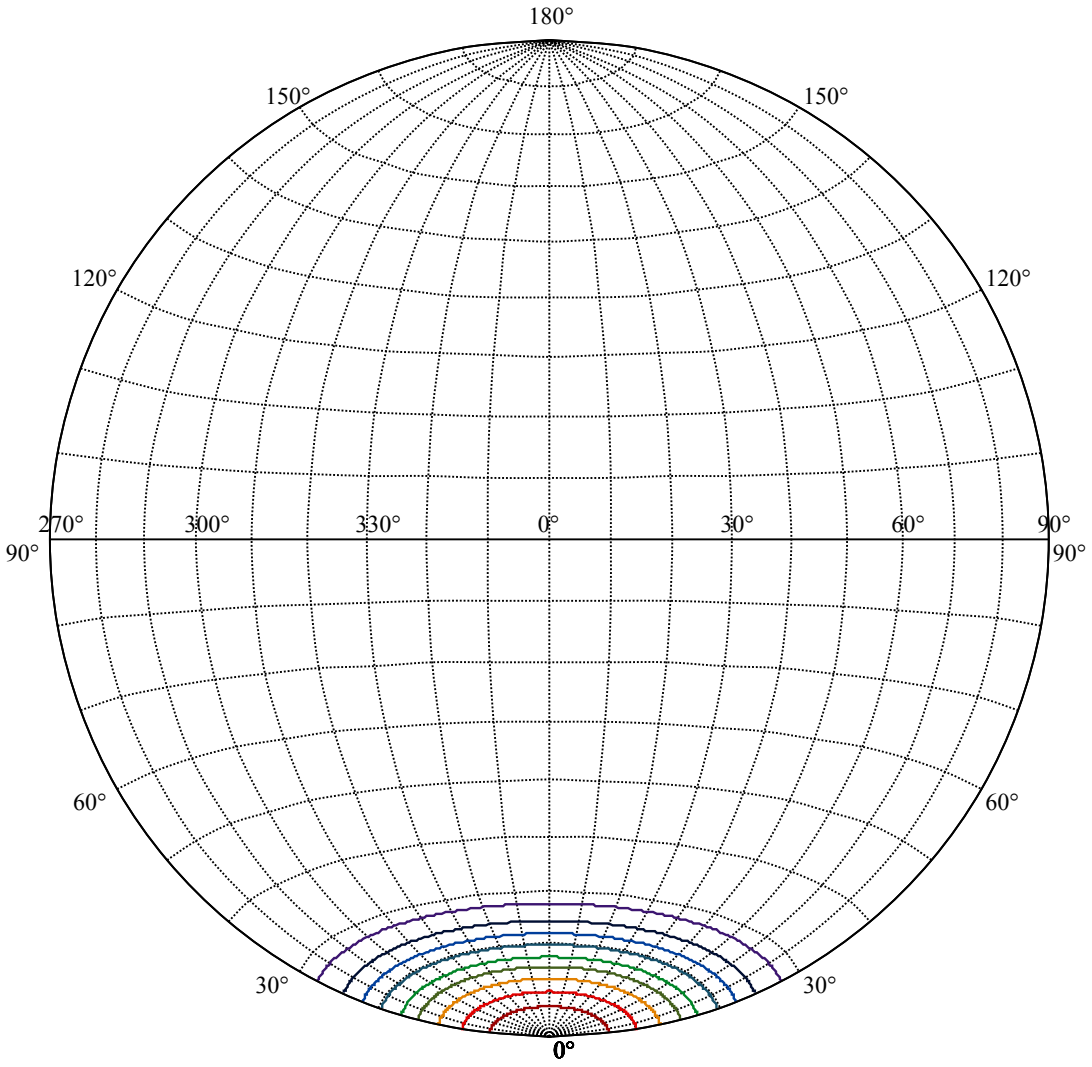
(10%Imax) 266.119
(20%Imax) 532.239
(30%Imax) 798.358
(40%Imax) 1064.48
(50%Imax) 1330.6
(60%Imax) 1596.72
(70%Imax) 1862.83
(80%Imax) 2128.95
(90%Imax) 2395.07

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2661.19

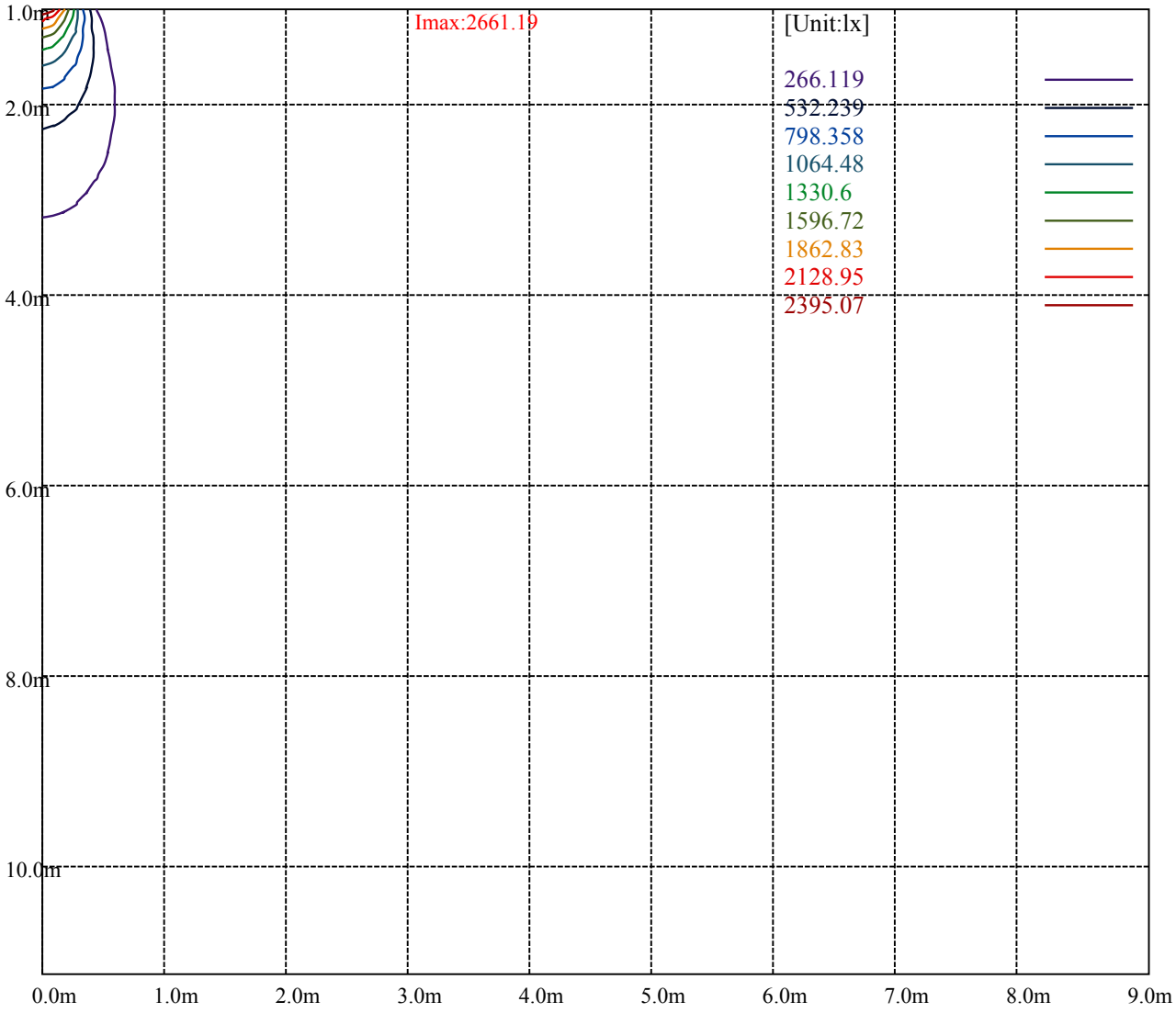
(10%Imax) 266.119
(20%Imax) 532.239
(30%Imax) 798.358
(40%Imax) 1064.48
(50%Imax) 1330.6
(60%Imax) 1596.72
(70%Imax) 1862.83
(80%Imax) 2128.95
(90%Imax) 2395.07

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

NT Nata 61-0210

Luminance Limitting Curve(no luminous side)

Luminance Table

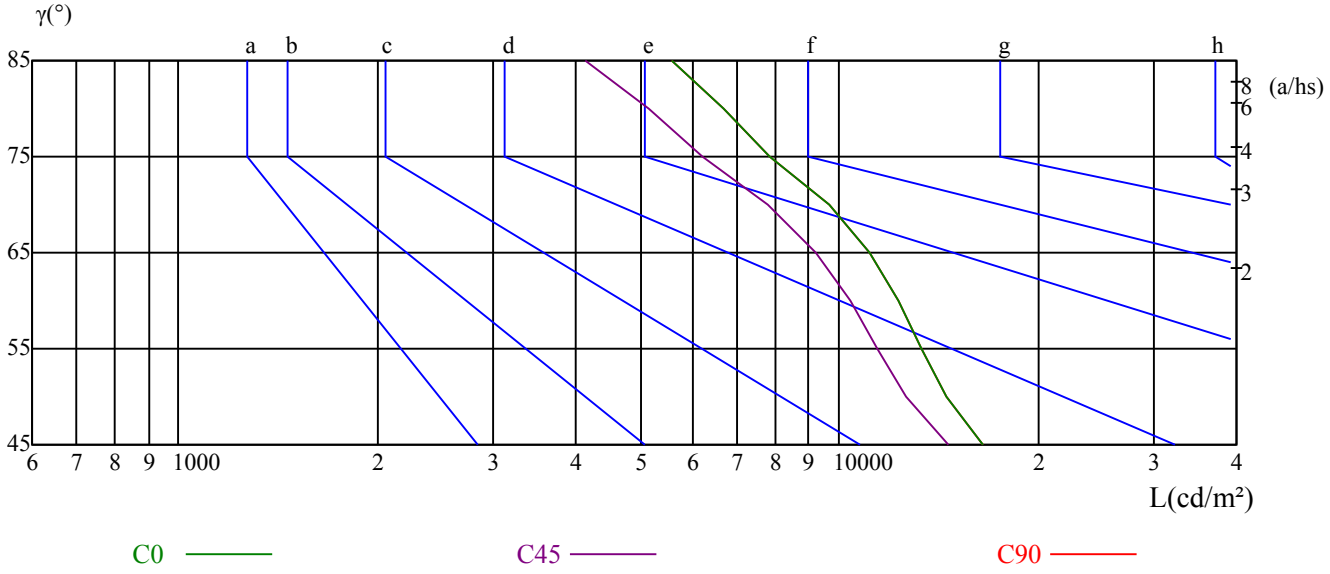
γ	45	50	55	60	65	70	75	80	85
C0	16556	14528	13293	12336	11152	9643	7859	6692	5573
C45	14628	12655	11404	10409	9238	7823	6222	5145	4132
C90	16556	14528	13293	12336	11152	9643	7859	6692	5573

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
22312	22312	22312	21548	21548	21548	35297	35297	35297

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



Equipment: GMS 1800
Temperature(°C): 25.0

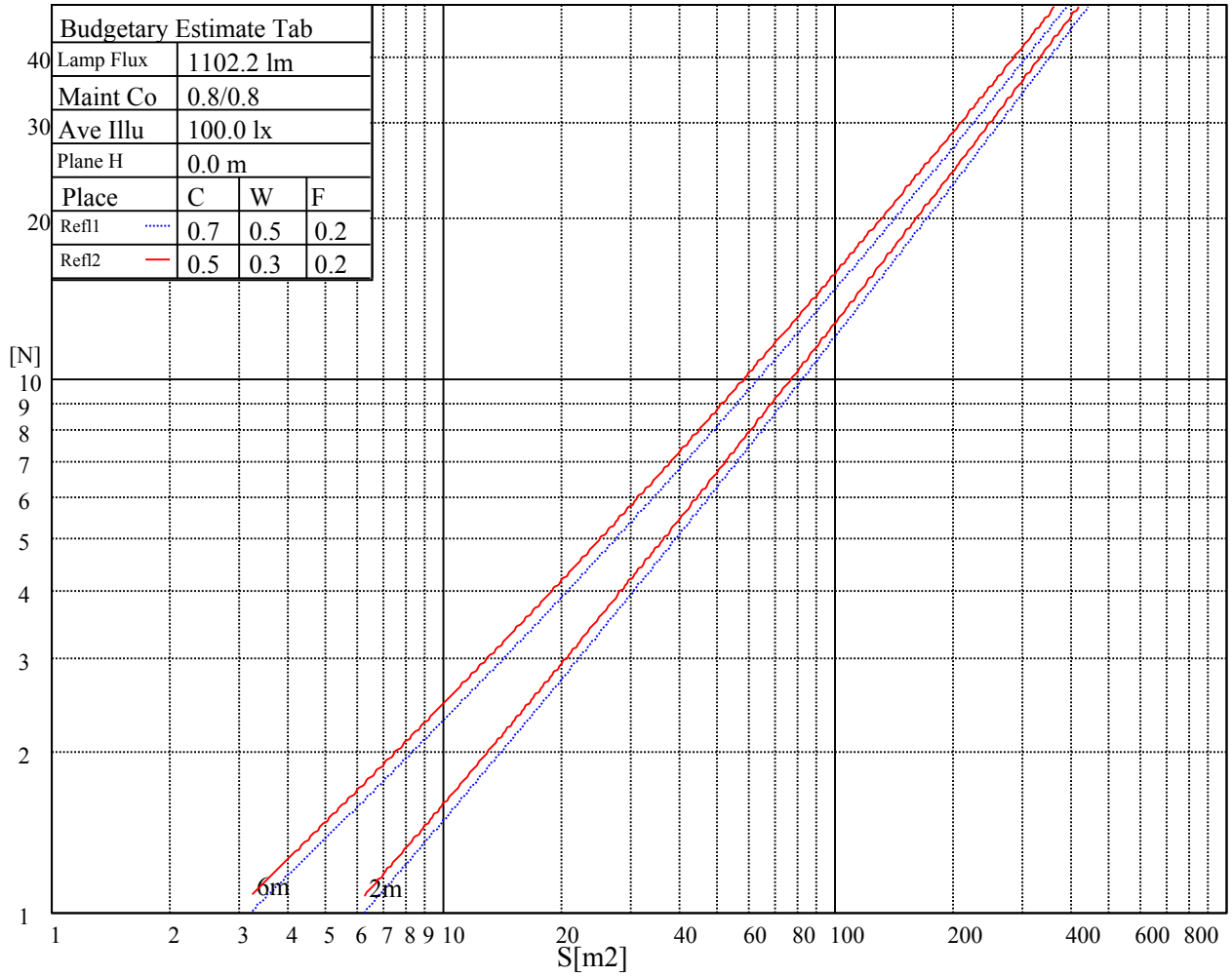
Date: 2024/7/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

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	15.26	16.27	15.62	16.58	16.90	15.37	16.38	15.73	16.69	17.01
	3H	16.77	17.67	17.15	18.01	18.36	16.82	17.72	17.21	18.06	18.41
	4H	17.31	18.15	17.71	18.50	18.87	17.35	18.19	17.75	18.54	18.91
	6H	17.79	18.56	18.21	18.93	19.33	17.79	18.56	18.20	18.93	19.33
	8H	17.99	18.72	18.41	19.11	19.51	17.95	18.69	18.37	19.07	19.48
	12H	18.15	18.85	18.57	19.24	19.66	18.10	18.79	18.52	19.19	19.61
4H	2H	15.82	16.66	16.22	17.02	17.38	15.91	16.75	16.31	17.10	17.47
	3H	17.47	18.17	17.89	18.57	18.98	17.50	18.21	17.93	18.60	19.02
	4H	18.16	18.77	18.60	19.20	19.64	18.18	18.80	18.62	19.22	19.67
	6H	18.72	19.26	19.19	19.71	20.16	18.70	19.24	19.17	19.69	20.14
	8H	19.00	19.50	19.48	19.96	20.43	18.94	19.45	19.43	19.90	20.38
	12H	19.24	19.70	19.73	20.16	20.67	19.17	19.63	19.65	20.08	20.60
8H	4H	18.35	18.85	18.84	19.31	19.79	18.37	18.88	18.86	19.33	19.81
	6H	19.06	19.47	19.56	19.95	20.46	19.03	19.45	19.54	19.92	20.43
	8H	19.48	19.83	20.01	20.35	20.85	19.42	19.77	19.95	20.29	20.79
	12H	19.83	20.10	20.37	20.62	21.14	19.75	20.02	20.29	20.53	21.06
12H	4H	18.36	18.83	18.85	19.28	19.80	18.38	18.85	18.87	19.30	19.82
	6H	19.16	19.50	19.69	20.03	20.52	19.13	19.48	19.67	20.00	20.50
	8H	19.59	19.86	20.13	20.38	20.90	19.53	19.80	20.07	20.32	20.84
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.6					0.5/-0.6				
S = 1.5H		0.8/-0.7					0.8/-0.7				
S = 2.0H		1.7/-0.8					1.7/-0.8				
Standard tables:		BK4					BK4				
Uncorrected UGR		0.7					0.7				

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

Budgetary Estimate Table

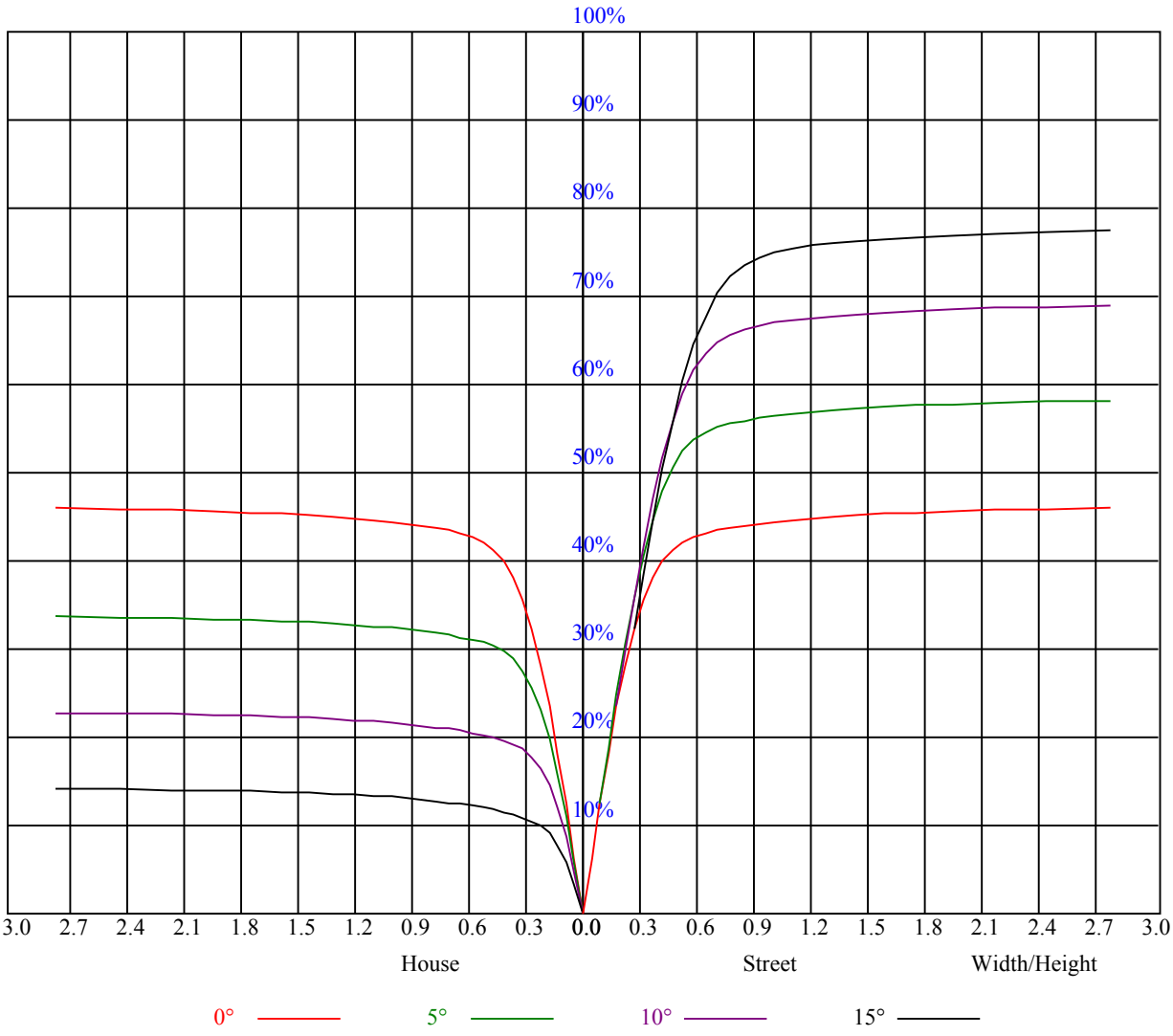


Equipment: GMS 1800 Date: 2024/7/19 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.18

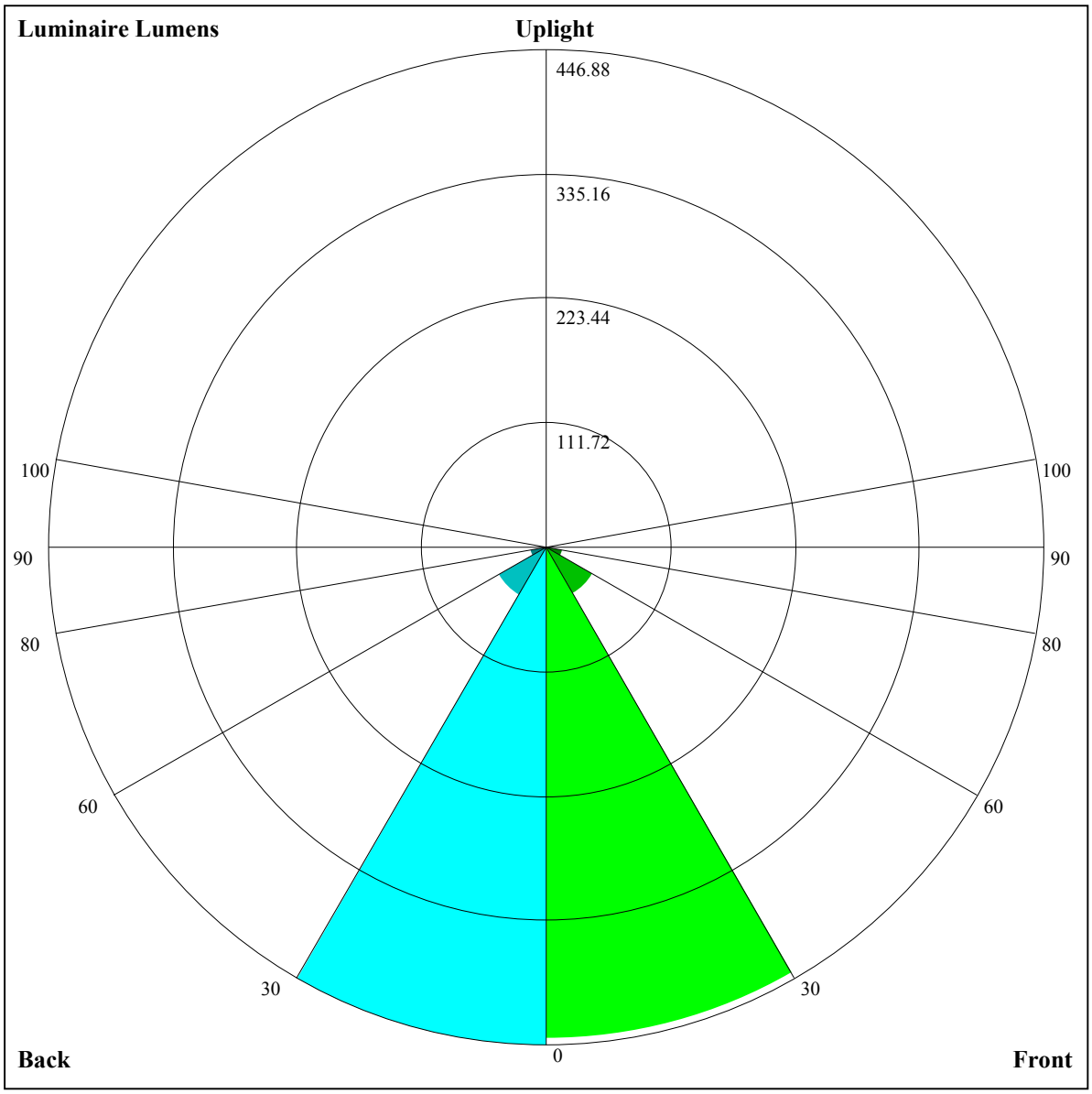
Utilization factor table for indoor luminaire

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	1.11	1.11	1.11	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.78
4	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
7	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.65
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.63
9	0.70	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/7/19	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.18



Luminaire Lumens:
FL=440.97,FM=47.51,FH=15.54,FVH=3.39
BL=446.88,BM=49.71,BH=15.53,BVH=3.43
UL=0,UH=0

BUG Rating:B1-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	2660.81	2644.93	2614.89	2573.40	2542.78	2460.84	2421.51	2345.03	2225.93
45.0	2655.86	2664.62	2657.51	2631.84	2599.06	2554.79	2505.11	2440.64	2376.73
90.0	2662.97	2645.50	2621.43	2578.86	2541.70	2480.53	2405.64	2347.20	2263.09
135.0	2665.14	2662.40	2648.23	2612.72	2591.38	2543.87	2490.32	2428.06	2347.76
180.0	2660.81	2666.27	2652.61	2628.54	2597.98	2550.41	2501.24	2440.64	2371.27
225.0	2655.86	2632.92	2601.23	2570.67	2534.59	2457.02	2417.13	2346.68	2225.36
270.0	2662.97	2665.70	2647.66	2620.35	2586.49	2536.75	2479.96	2415.48	2343.38
315.0	2665.14	2644.93	2627.46	2592.52	2546.08	2493.05	2426.98	2348.28	2267.98
360.0	2660.81	2644.93	2614.89	2573.40	2542.78	2460.84	2421.51	2345.03	2225.93

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2177.33	2083.32	1978.44	1880.11	1781.26	1672.51	1556.71	1437.60	1314.68
45.0	2296.95	2212.27	2122.13	2027.09	1970.81	1822.75	1715.70	1650.14	1488.99
90.0	2177.84	2084.97	1992.67	1893.77	1790.53	1686.17	1576.39	1465.48	1351.84
135.0	2272.93	2187.69	2095.38	2005.24	1904.69	1805.84	1700.39	1591.65	1478.06
180.0	2289.84	2201.91	2112.29	2013.95	1913.45	1812.39	1703.64	1615.15	1477.49
225.0	2176.19	2077.86	1979.52	1870.26	1757.76	1643.55	1529.39	1396.11	1087.86
270.0	2260.87	2171.86	2077.86	1976.28	1880.11	1776.88	1663.24	1545.21	1416.32
315.0	2180.57	2086.62	1989.37	1887.79	1783.42	1676.33	1567.63	1448.53	1323.96
360.0	2177.33	2083.32	1978.44	1880.11	1781.26	1672.51	1556.71	1437.60	1314.68

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1070.08	1070.08	941.75	838.83	694.68	606.24	503.63	408.90	328.56
45.0	1420.13	1292.32	1163.37	1036.07	909.34	780.96	663.50	552.59	455.34
90.0	1068.33	1043.08	995.10	917.79	796.88	635.15	571.04	471.16	382.72
135.0	1368.23	1249.13	1154.09	1007.10	884.19	787.50	673.34	566.82	470.13
180.0	1356.22	1257.89	1130.02	999.48	871.66	749.26	634.02	526.92	431.89
225.0	1087.86	979.12	849.19	772.66	651.85	501.41	443.79	357.98	283.82
270.0	1337.62	1206.51	1013.13	932.84	802.81	679.32	566.25	466.26	379.42
315.0	1077.76	1077.76	972.99	843.73	720.81	606.60	502.44	411.27	330.67
360.0	1070.08	1070.08	941.75	838.83	694.68	606.24	503.63	408.90	328.56

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	260.63	204.35	160.28	126.47	101.48	84.16	72.00	63.24	56.95
45.0	369.06	293.10	293.10	171.52	134.82	108.38	95.71	80.50	66.84
90.0	307.68	244.50	191.98	151.52	121.73	99.47	83.75	72.20	64.27
135.0	382.72	308.40	294.75	226.36	155.18	125.19	103.08	86.74	75.14
180.0	348.29	276.19	276.19	171.47	136.22	110.70	98.64	83.13	68.60
225.0	223.98	174.97	138.28	110.45	90.55	76.95	67.36	60.35	54.89
270.0	304.59	278.36	223.31	151.26	121.11	98.95	85.24	70.97	64.11
315.0	262.59	207.29	163.17	129.57	103.39	84.11	71.12	62.00	55.61
360.0	260.63	204.35	160.28	126.47	101.48	84.16	72.00	63.24	56.95

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	52.52	49.01	46.13	43.60	41.28	39.22	37.42	35.77	34.27
45.0	62.57	56.74	52.52	49.06	46.28	43.70	41.54	39.74	37.93
90.0	58.39	53.75	49.94	46.85	44.63	41.44	39.27	37.73	35.61
135.0	66.59	62.67	57.36	51.80	49.79	46.80	44.12	41.75	39.68
180.0	63.96	57.88	53.34	49.53	46.28	43.40	41.02	39.01	36.95
225.0	50.87	47.52	44.84	42.31	40.20	38.29	36.54	35.61	33.65
270.0	57.83	52.57	49.79	46.95	44.32	42.16	40.15	38.34	36.70
315.0	50.92	47.47	45.71	43.14	40.92	38.76	36.85	35.15	33.60
360.0	52.52	49.01	46.13	43.60	41.28	39.22	37.42	35.77	34.27

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	33.45	32.21	30.82	30.25	29.43	28.66	27.88	27.32	26.65
45.0	36.39	34.84	33.55	32.31	31.18	30.20	29.33	28.81	27.62
90.0	34.48	33.14	31.85	30.72	29.79	28.96	28.24	27.57	26.95
135.0	37.98	36.59	35.25	34.12	33.14	32.47	31.80	31.13	30.15
180.0	35.36	33.65	32.31	31.18	30.10	29.22	28.40	27.57	26.75
225.0	32.88	31.75	30.72	29.79	29.07	28.29	27.42	26.70	25.92
270.0	35.41	34.07	32.98	32.06	31.23	30.36	29.69	28.96	27.99
315.0	32.21	30.97	29.94	29.02	28.14	27.26	26.59	25.98	25.25
360.0	33.45	32.21	30.82	30.25	29.43	28.66	27.88	27.32	26.65

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.03	25.41	24.79	24.27	23.76	23.14	22.63	21.96	21.29
45.0	27.21	26.39	25.46	25.05	24.58	23.97	23.35	22.83	22.11
90.0	26.28	25.67	25.00	24.43	23.81	23.24	22.73	22.37	21.34
135.0	29.22	28.24	27.16	25.92	24.84	24.17	23.50	22.99	22.32
180.0	25.98	25.46	24.74	24.22	23.76	22.99	22.52	22.01	21.39
225.0	25.25	24.53	23.86	23.24	22.68	22.16	21.54	20.98	20.10
270.0	27.47	26.13	25.20	24.84	23.86	23.55	22.83	22.26	21.54
315.0	24.69	24.02	23.55	23.19	22.42	22.16	21.59	20.67	20.31
360.0	26.03	25.41	24.79	24.27	23.76	23.14	22.63	21.96	21.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.51	20.15	19.07	18.66	17.94	17.01	16.29	15.36	14.48
45.0	21.49	20.82	20.15	19.43	18.66	17.83	17.06	16.23	15.46
90.0	20.51	20.05	19.02	18.14	17.68	16.90	16.03	15.31	14.48
135.0	21.59	20.82	20.00	19.22	18.45	17.73	17.01	16.13	15.36
180.0	20.62	20.00	19.28	18.50	17.68	17.01	16.29	15.46	14.59
225.0	19.28	18.76	17.83	17.21	16.44	15.62	14.79	13.97	13.14
270.0	20.67	19.95	19.22	18.45	17.68	16.90	16.03	15.31	14.48
315.0	19.58	18.81	18.19	17.47	16.70	15.82	15.00	14.17	13.30
360.0	20.51	20.15	19.07	18.66	17.94	17.01	16.29	15.36	14.48

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.66	12.78	12.01	11.13	10.51	10.15	9.69	9.17	8.71
45.0	14.53	13.76	12.99	12.11	11.49	10.67	10.05	9.64	9.12
90.0	13.61	12.78	12.01	11.18	10.31	9.74	9.33	8.76	8.30
135.0	14.64	13.97	13.25	12.58	11.75	10.98	10.51	10.05	9.69
180.0	13.76	12.99	12.16	11.39	10.98	9.95	9.48	9.23	8.56
225.0	12.27	11.54	10.77	10.00	9.48	9.07	8.66	8.09	7.58
270.0	13.66	12.94	12.16	11.75	10.67	10.20	9.95	9.33	9.02
315.0	12.47	11.75	10.98	10.20	9.53	9.17	8.81	8.19	7.68
360.0	13.66	12.78	12.01	11.13	10.51	10.15	9.69	9.17	8.71

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.40	7.94	7.37	6.75	6.34	5.77	5.21	4.79	4.54
45.0	8.61	8.04	7.58	7.01	6.49	5.98	5.51	4.95	4.43
90.0	7.78	7.42	6.85	6.49	6.03	5.57	5.05	4.59	4.17
135.0	9.07	8.66	8.19	7.78	7.22	6.85	6.24	5.72	5.15
180.0	8.30	7.63	7.27	6.75	6.34	5.77	5.15	4.64	4.17
225.0	7.16	6.80	6.34	5.88	5.36	4.90	4.38	4.02	3.81
270.0	8.50	7.89	7.52	6.96	6.44	5.93	5.51	5.05	4.74
315.0	7.32	6.91	6.44	6.08	5.62	5.10	4.64	4.17	3.92
360.0	8.40	7.94	7.37	6.75	6.34	5.77	5.21	4.79	4.54

Intensity data(cd)

C/γ(°)	90.0
0.0	4.43
45.0	4.12
90.0	4.07
135.0	4.74
180.0	3.92
225.0	3.71
270.0	4.54
315.0	3.81
360.0	4.43