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: 1-1306-L
Luminaire: 92.70.427.00
Report No: 2024724-B007
Ballast type: AC

Test No: 2024724-C007	Voltage(V): 36.210
LampCAT: P2121-018-1203-P3090-1	Current(A): 0.360
Lamp flux(lm): 2004.0	Power (W): 13.035
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1816.25, Efficiency(%): 90.63% , Luminous Efficacy(lm/W): 139.34
Central intensity(cd): 2791.875, Maximum intensity(cd): 2791.875
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=49.4
[C90/270]Total=49.4
Field angle(10%Imax): [C0/180]Total=70.4
[C90/270]Total=70.4
Maximum s/h(1/2): C0_180=0.80 C90_270=0.80
Maximum s/h(1/4): C0_180=0.76 C90_270=0.76
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.63%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.826%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2791.874	0.000	0	0.00%	0.00%
1.0	2782.438	2.667	2.667	0.13%	0.15%
2.0	2766.783	7.965	10.632	0.40%	0.59%
3.0	2751.421	13.198	23.83	0.66%	1.31%
4.0	2739.350	18.379	42.209	0.92%	2.32%
5.0	2717.039	23.473	65.682	1.17%	3.62%
6.0	2689.314	28.412	94.094	1.42%	5.18%
7.0	2661.808	33.214	127.308	1.66%	7.01%
8.0	2625.817	37.843	165.151	1.89%	9.09%
9.0	2593.410	42.299	207.45	2.11%	11.42%
10.0	2554.200	46.584	254.034	2.32%	13.99%
11.0	2516.160	50.663	304.697	2.53%	16.78%
12.0	2472.561	54.534	359.231	2.72%	19.78%
13.0	2409.869	57.942	417.173	2.89%	22.97%
14.0	2348.493	60.907	478.08	3.04%	26.32%
15.0	2277.608	63.509	541.589	3.17%	29.82%
16.0	2207.235	65.715	607.304	3.28%	33.44%
17.0	2137.154	67.654	674.958	3.38%	37.16%
18.0	2060.051	69.203	744.161	3.45%	40.97%
19.0	1981.484	70.314	814.476	3.51%	44.84%
20.0	1899.991	71.042	885.517	3.54%	48.76%
21.0	1814.402	71.324	956.841	3.56%	52.68%
22.0	1722.083	71.067	1027.908	3.55%	56.60%
23.0	1622.961	70.188	1098.096	3.50%	60.46%
24.0	1494.218	68.153	1166.249	3.40%	64.21%
25.0	1357.078	64.832	1231.081	3.24%	67.78%
26.0	1264.166	61.875	1292.956	3.09%	71.19%
27.0	1175.000	59.675	1352.631	2.98%	74.47%
28.0	1048.928	56.305	1408.936	2.81%	77.57%
29.0	920.325	51.521	1460.457	2.57%	80.41%
30.0	787.976	46.124	1506.581	2.30%	82.95%
31.0	662.519	40.365	1546.946	2.01%	85.17%
32.0	544.523	34.580	1581.527	1.73%	87.08%
33.0	447.551	29.227	1610.753	1.46%	88.69%
34.0	361.340	24.479	1635.233	1.22%	90.03%
35.0	288.962	20.196	1655.429	1.01%	91.15%
36.0	248.567	17.115	1672.544	0.85%	92.09%
37.0	213.322	15.064	1687.608	0.75%	92.92%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	138.837	11.755	1699.363	0.59%	93.56%
39.0	113.365	8.608	1707.971	0.43%	94.04%
40.0	92.912	7.194	1715.165	0.36%	94.43%
41.0	78.801	6.115	1721.28	0.31%	94.77%
42.0	69.086	5.373	1726.653	0.27%	95.07%
43.0	60.395	4.796	1731.449	0.24%	95.33%
44.0	53.504	4.299	1735.748	0.21%	95.57%
45.0	48.208	3.909	1739.657	0.20%	95.78%
46.0	43.819	3.599	1743.256	0.18%	95.98%
47.0	39.934	3.331	1746.587	0.17%	96.16%
48.0	36.818	3.103	1749.69	0.15%	96.34%
49.0	33.826	2.901	1752.591	0.14%	96.50%
50.0	31.536	2.725	1755.316	0.14%	96.65%
51.0	29.400	2.578	1757.894	0.13%	96.79%
52.0	27.593	2.446	1760.34	0.12%	96.92%
53.0	26.035	2.333	1762.673	0.12%	97.05%
54.0	24.638	2.233	1764.906	0.11%	97.17%
55.0	23.497	2.149	1767.055	0.11%	97.29%
56.0	22.312	2.070	1769.125	0.10%	97.41%
57.0	21.310	1.994	1771.119	0.10%	97.52%
58.0	20.454	1.931	1773.05	0.10%	97.62%
59.0	19.729	1.879	1774.929	0.09%	97.72%
60.0	18.998	1.830	1776.759	0.09%	97.83%
61.0	18.391	1.784	1778.543	0.09%	97.92%
62.0	17.827	1.745	1780.288	0.09%	98.02%
63.0	17.323	1.710	1781.998	0.09%	98.11%
64.0	16.833	1.676	1783.674	0.08%	98.21%
65.0	16.320	1.641	1785.314	0.08%	98.30%
66.0	15.911	1.608	1786.922	0.08%	98.39%
67.0	15.501	1.579	1788.502	0.08%	98.47%
68.0	15.048	1.547	1790.049	0.08%	98.56%
69.0	14.653	1.515	1791.565	0.08%	98.64%
70.0	14.272	1.486	1793.05	0.07%	98.72%
71.0	13.892	1.456	1794.506	0.07%	98.80%
72.0	13.526	1.426	1795.931	0.07%	98.88%
73.0	13.109	1.393	1797.324	0.07%	98.96%
74.0	12.751	1.360	1798.684	0.07%	99.03%
75.0	12.407	1.329	1800.013	0.07%	99.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.034	1.297	1801.31	0.06%	99.18%
77.0	11.683	1.264	1802.575	0.06%	99.25%
78.0	11.346	1.233	1803.807	0.06%	99.31%
79.0	10.988	1.200	1805.007	0.06%	99.38%
80.0	10.688	1.169	1806.176	0.06%	99.45%
81.0	10.366	1.139	1807.315	0.06%	99.51%
82.0	10.073	1.108	1808.423	0.06%	99.57%
83.0	9.773	1.079	1809.502	0.05%	99.63%
84.0	9.481	1.049	1810.551	0.05%	99.69%
85.0	9.195	1.019	1811.57	0.05%	99.74%
86.0	8.917	0.990	1812.56	0.05%	99.80%
87.0	8.669	0.962	1813.523	0.05%	99.85%
88.0	8.435	0.937	1814.459	0.05%	99.90%
89.0	8.135	0.908	1815.368	0.05%	99.95%
90.0	7.959	0.882	1816.25	0.04%	100.00%

Zonal flux distribution table

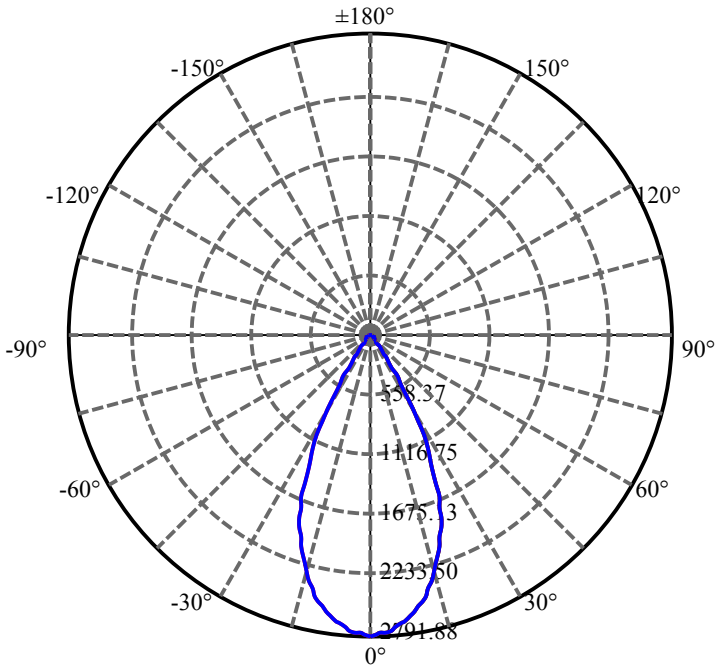
ZONAL LUMEN SUMMARY

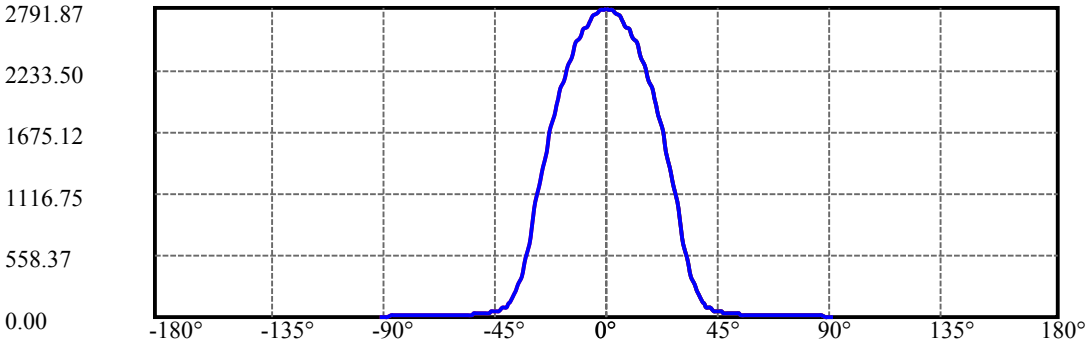
Zone	Lumens	%Lamp	%Fixt
0-30	1506.58	75.18%	82.95%
0-40	1715.17	85.59%	94.43%
0-60	1776.76	88.66%	97.83%
0-90	1815.37	90.59%	99.95%
0-120	1815.37	90.59%	99.95%
0-180	1816.25	90.63%	100.00%
60-90	38.61	1.93%	2.13%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.86	1453.00	72.50%	80.00%

ZONAL LUMEN SUMMARY

0-10	254.03
10-20	631.48
20-30	621.06
30-40	208.58
40-50	40.15
50-60	21.44
60-70	16.29
70-80	13.13
80-90	9.19
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):

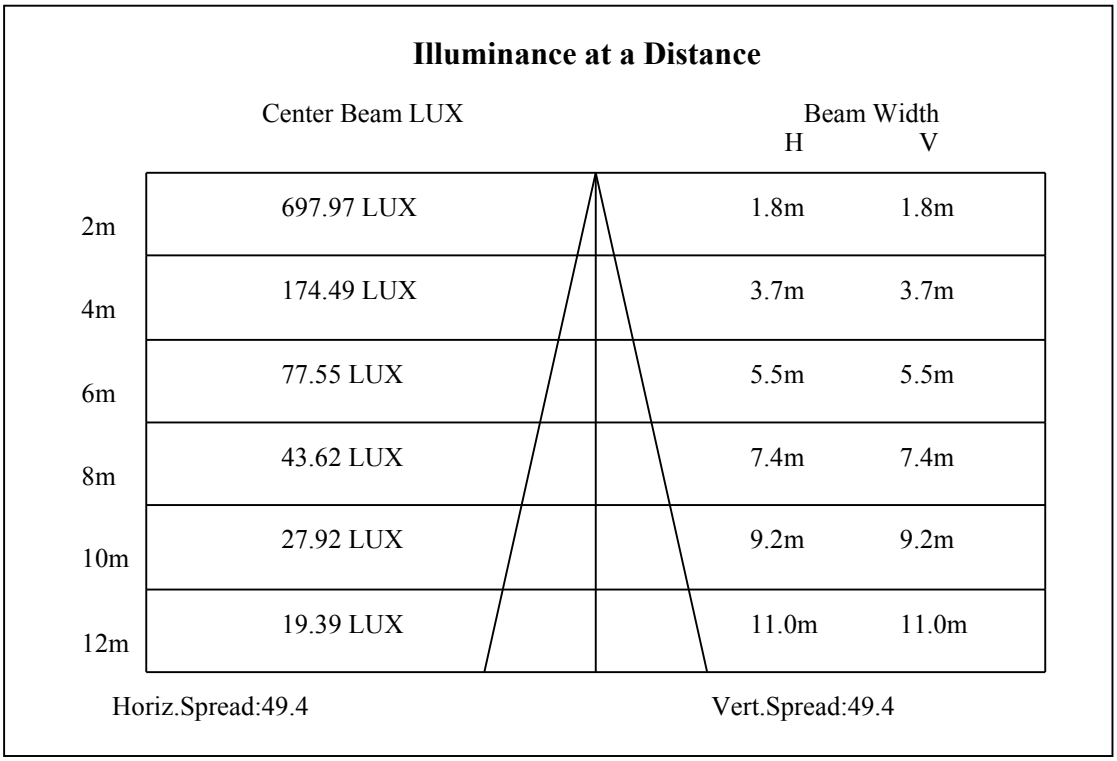
C0/C180:

C90/C270:

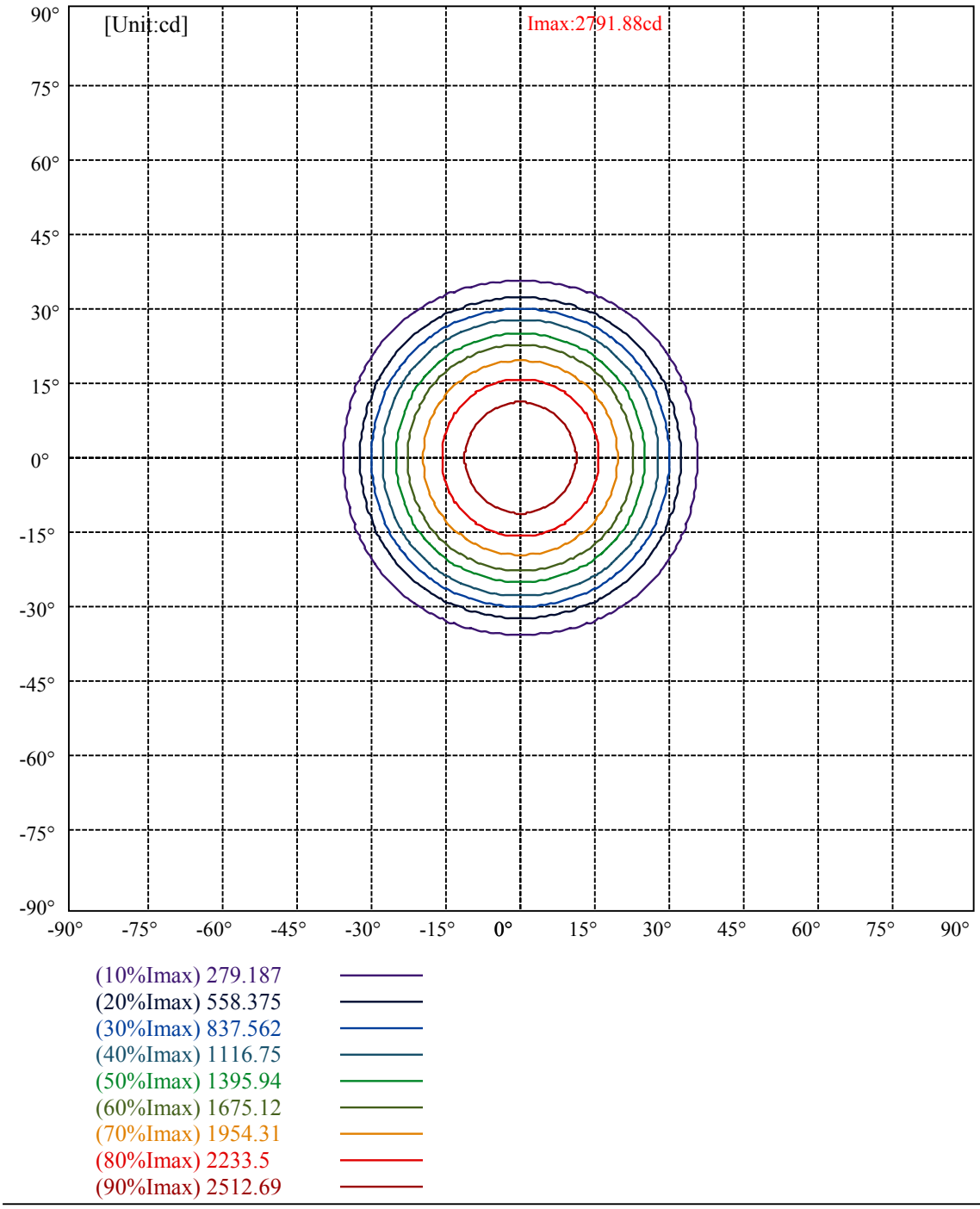
Field angle(10%Imax):C0/180Left:35.2 Right:35.2
:C90/270Left:35.2 Right:35.2

Beam Angle(50%Imax):C0/180Left:24.7 Right:24.7
:C90/270Left:24.7 Right:24.7

Lux distance Curve



ISO-Intensity(V-H)

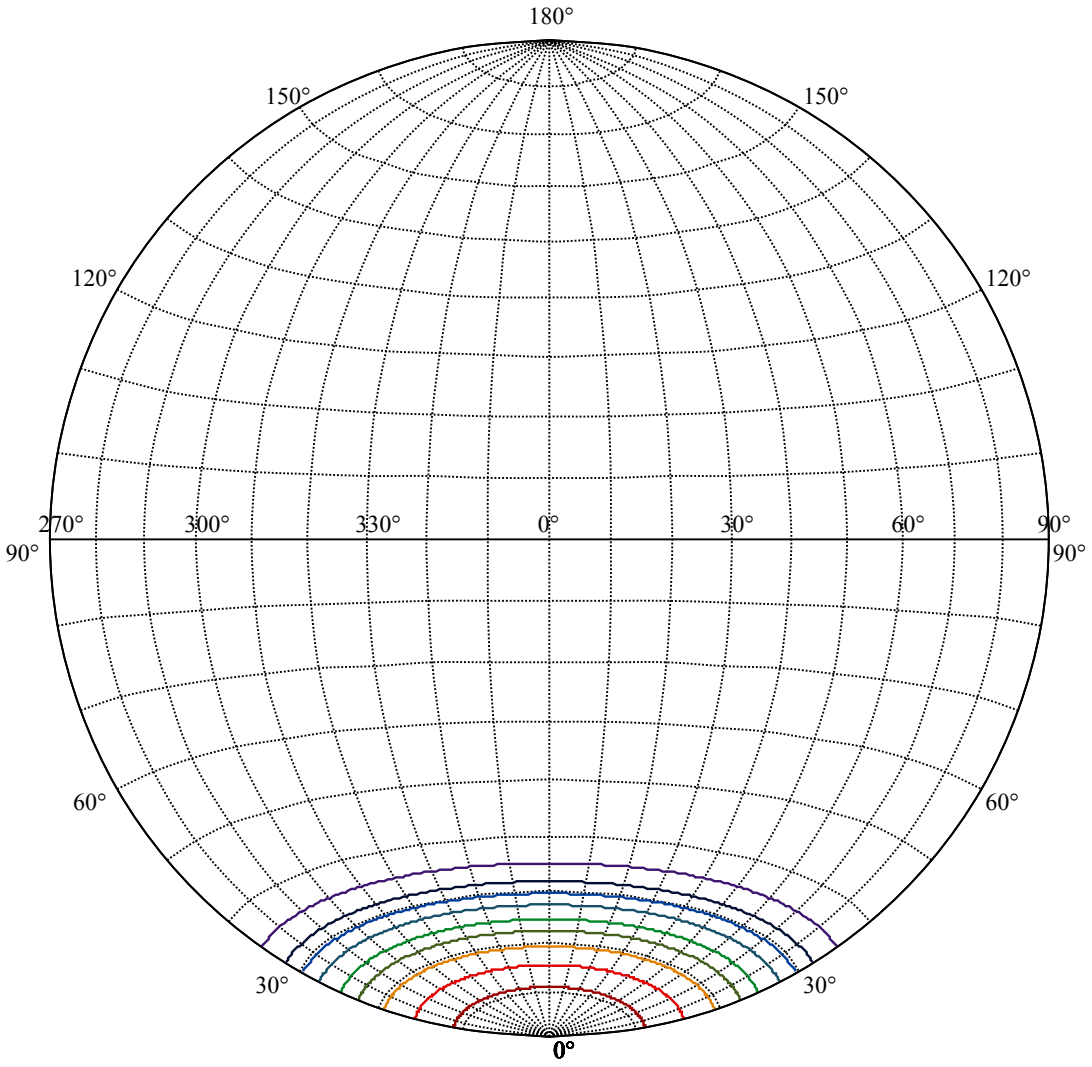


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



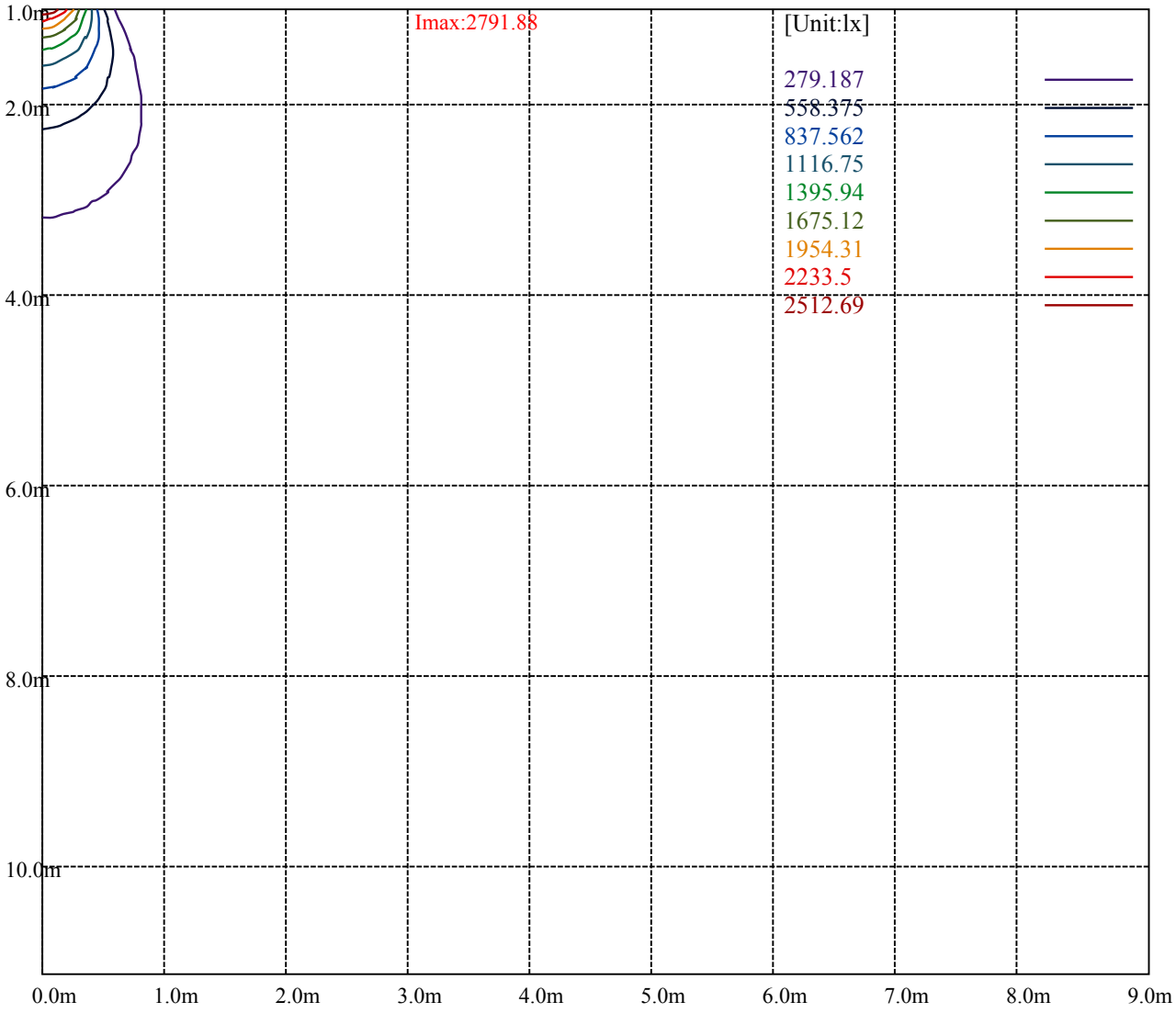
House [Unit:cd] Road

Imax:2791.88

(10%Imax) 279.187
(20%Imax) 558.375
(30%Imax) 837.562
(40%Imax) 1116.75
(50%Imax) 1395.94
(60%Imax) 1675.12
(70%Imax) 1954.31
(80%Imax) 2233.5
(90%Imax) 2512.69

Equipment: GMS1980 Date: 2024/7/24 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 1-1306-L

Luminance Limitting Curve(no luminous side)

Luminance Table

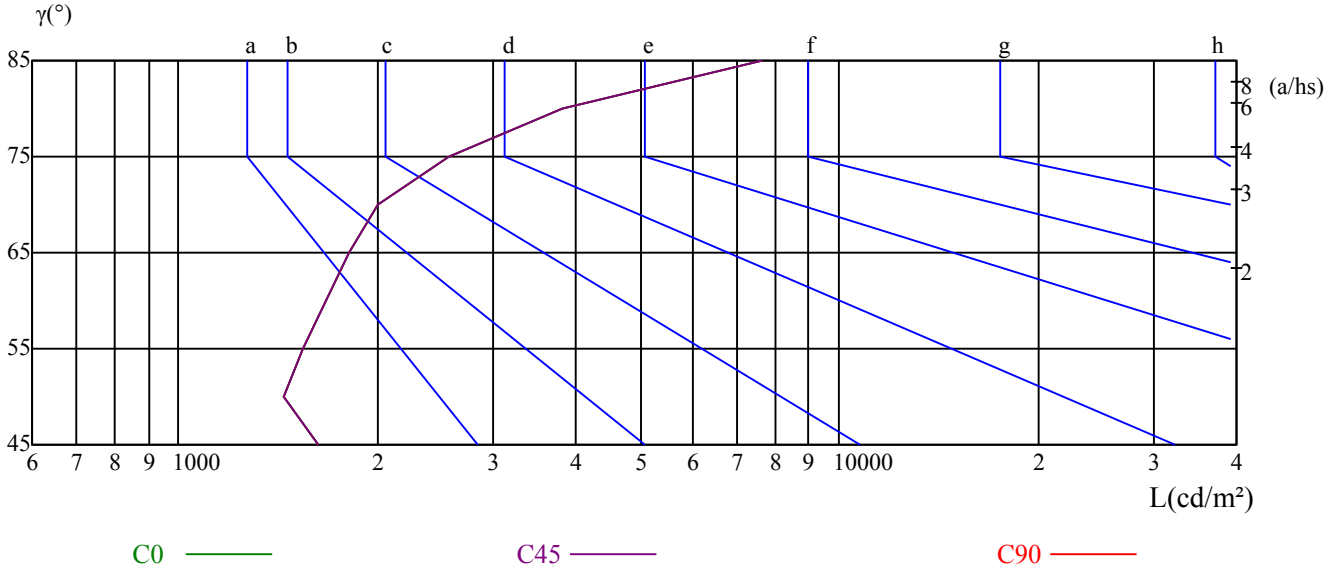
γ	45	50	55	60	65	70	75	80	85
C0	1631	1440	1544	1667	1806	1998	2572	3816	7630
C45	1631	1440	1544	1667	1806	1998	2572	3816	7630
C90	1631	1440	1544	1667	1806	1998	2572	3816	7630

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1806	1806	1806	2572	2572	2572	7630	7630	7630

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: GMS1980
Temperature(°C): 25.0

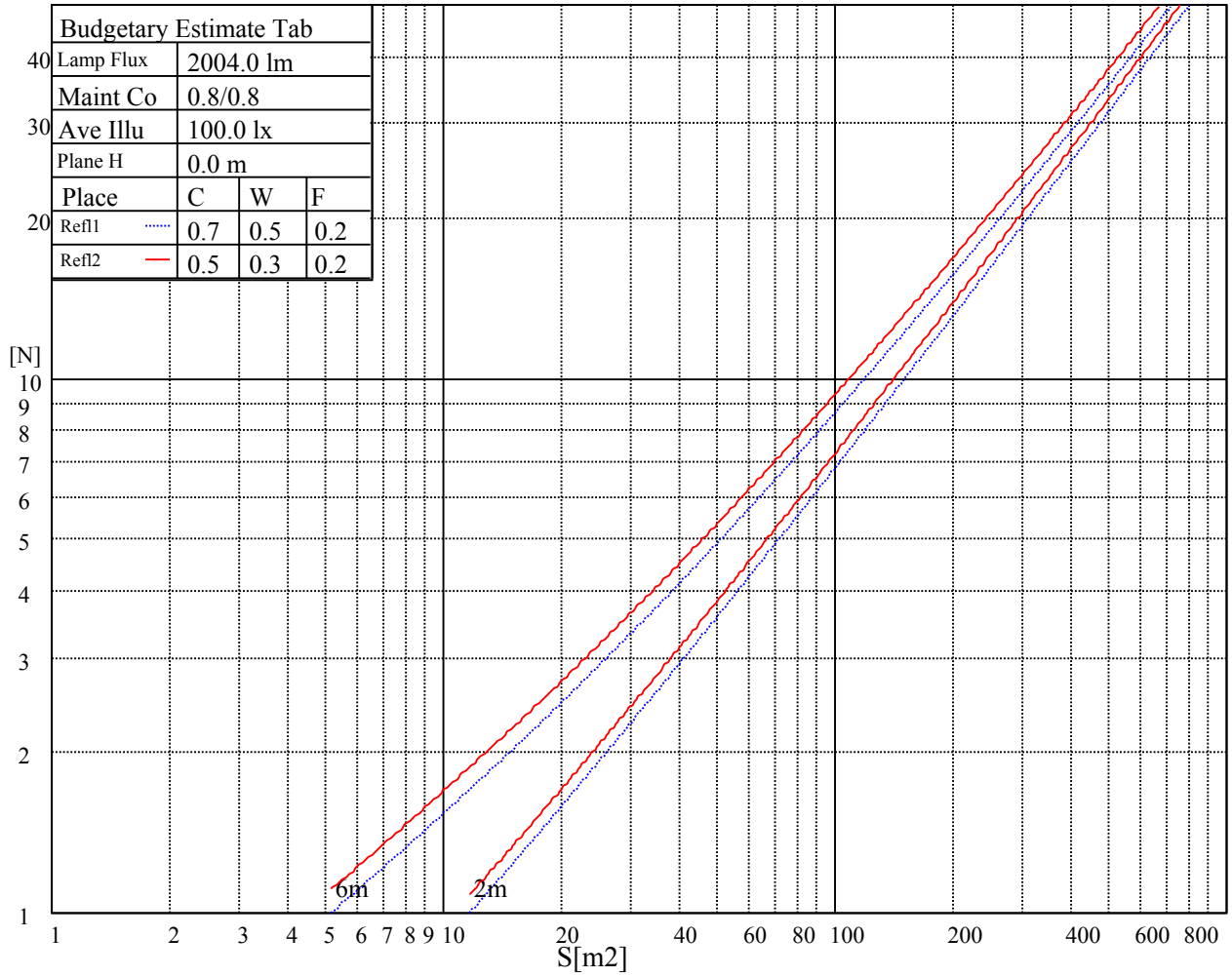
Date: 2024/7/24
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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

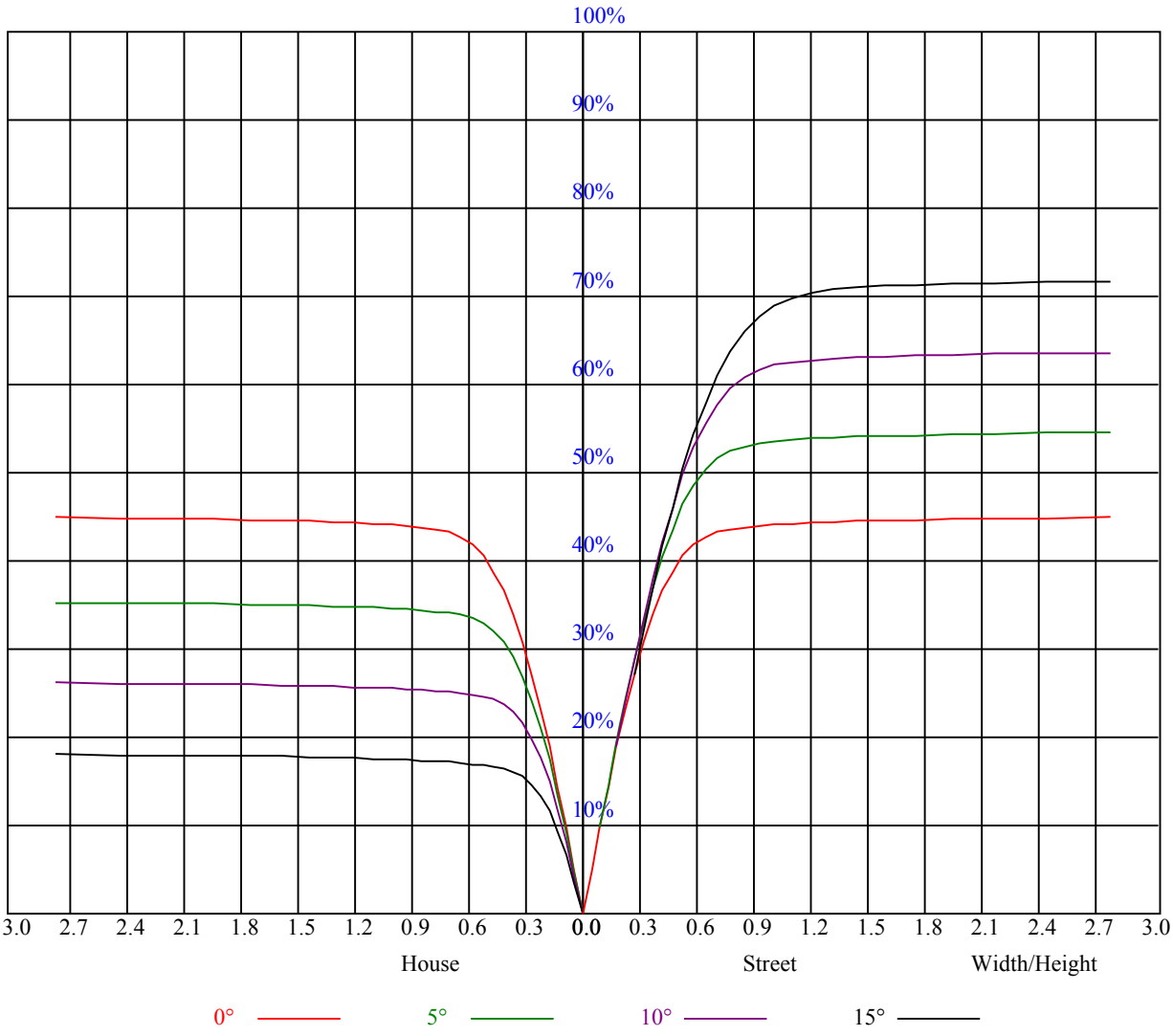


Equipment: GMS1980 Date: 2024/7/24 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

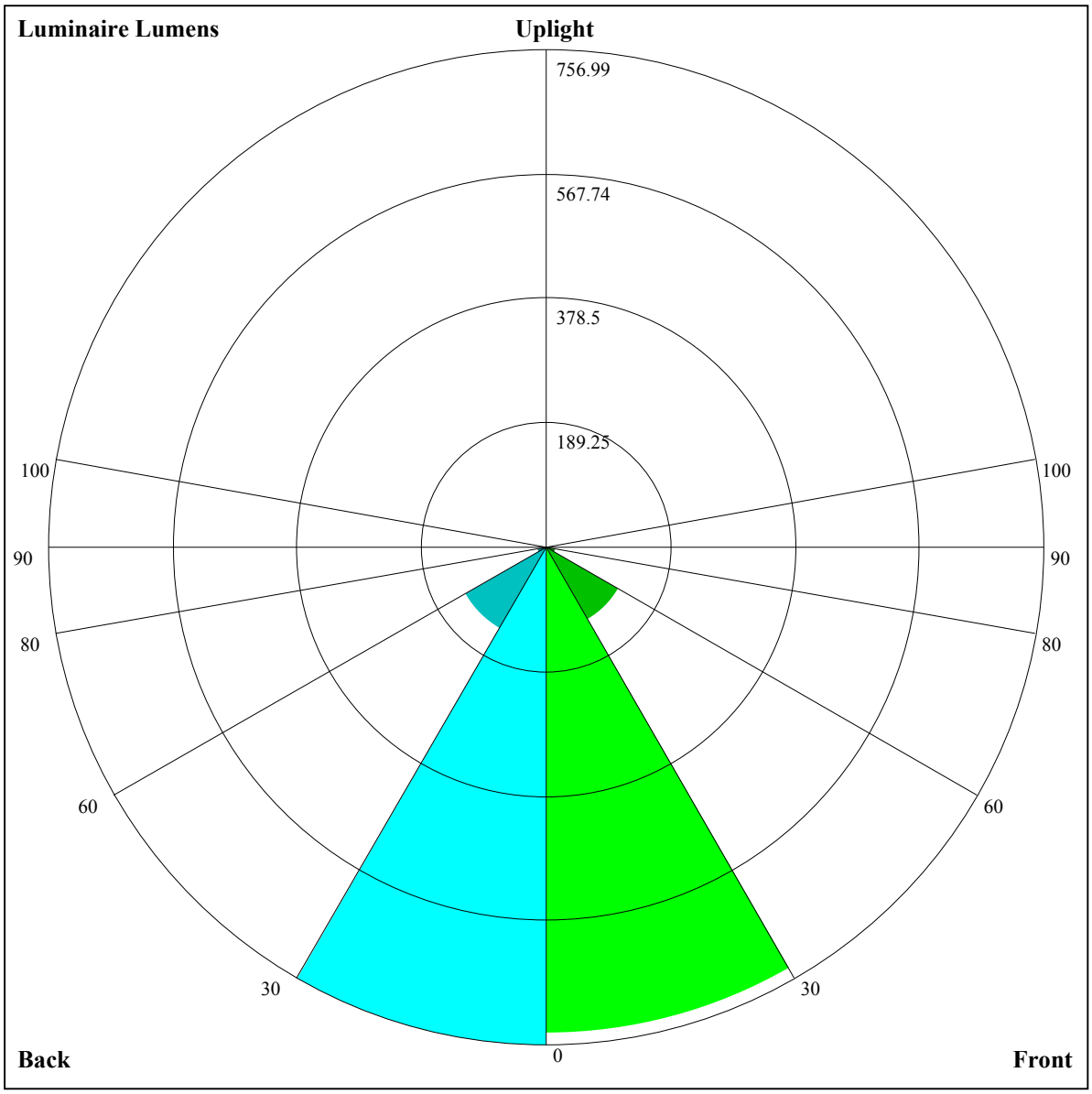
Utilization factor table for indoor luminaire

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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.00	0.98	0.96	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.90	0.87	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.81	0.79	0.82	0.80	0.77	0.80	0.78	0.76	0.75
4	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
5	0.78	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.68	0.67
6	0.74	0.69	0.66	0.74	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.63
7	0.71	0.65	0.62	0.70	0.65	0.62	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
8	0.67	0.62	0.59	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57
9	0.64	0.59	0.56	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.58	0.55	0.52	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/7/24	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=739.24,FM=128.38,FH=14.59,FVH=5
BL=756.99,BM=144.07,BH=14.81,BVH=5.05
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	2791.58	2774.03	2775.78	2770.51	2731.30	2716.67	2684.49	2648.79	2608.99
45.0	2798.02	2786.90	2772.85	2761.15	2755.88	2729.55	2709.65	2672.20	2615.43
90.0	2792.75	2761.15	2751.20	2737.74	2703.21	2656.39	2618.36	2564.51	2542.28
135.0	2785.14	2796.26	2764.66	2745.35	2725.45	2698.53	2678.05	2656.98	2619.53
180.0	2791.58	2800.36	2776.37	2726.04	2709.65	2690.34	2662.25	2650.54	2625.38
225.0	2798.02	2780.46	2742.42	2741.84	2744.76	2730.72	2686.83	2665.17	2633.57
270.0	2792.75	2790.41	2786.90	2765.83	2771.10	2761.74	2742.42	2724.28	2693.26
315.0	2785.14	2769.93	2764.08	2762.91	2773.44	2752.37	2732.47	2711.99	2668.10
360.0	2791.58	2774.03	2775.78	2770.51	2731.30	2716.67	2684.49	2648.79	2608.99

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2582.07	2549.30	2517.70	2476.15	2415.28	2347.98	2278.34	2212.21	2135.54
45.0	2586.17	2545.20	2504.24	2454.49	2395.38	2323.99	2263.71	2179.44	2115.65
90.0	2505.41	2442.20	2398.31	2343.88	2264.29	2198.75	2105.70	2036.64	1962.32
135.0	2576.80	2533.50	2500.14	2449.23	2398.31	2342.13	2261.37	2192.90	2122.08
180.0	2592.02	2576.22	2539.35	2501.31	2436.94	2389.53	2331.59	2260.78	2191.73
225.0	2590.85	2532.91	2494.87	2456.83	2393.63	2331.01	2263.71	2201.09	2133.20
270.0	2672.20	2643.52	2607.82	2570.95	2503.07	2435.18	2384.27	2309.36	2241.47
315.0	2641.76	2610.75	2566.86	2527.65	2472.05	2419.38	2332.18	2265.46	2195.24
360.0	2582.07	2549.30	2517.70	2476.15	2415.28	2347.98	2278.34	2212.21	2135.54

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2044.83	1971.68	1895.02	1792.60	1696.63	1562.61	1440.30	1166.76	1166.76
45.0	2044.83	1963.49	1884.48	1794.36	1712.43	1630.50	1538.62	1421.57	1308.04
90.0	1866.34	1793.19	1722.38	1626.40	1541.54	1429.18	1158.86	1158.86	1132.82
135.0	2061.81	1982.22	1912.57	1846.44	1761.59	1664.44	1576.65	1482.43	1363.05
180.0	2139.06	2079.95	2000.94	1930.13	1846.44	1746.37	1645.71	1551.49	1449.08
225.0	2049.52	1979.87	1902.04	1821.28	1713.01	1625.81	1533.35	1432.69	1156.70
270.0	2162.46	2077.02	1964.07	1883.90	1797.28	1714.77	1594.80	1488.29	1382.36
315.0	2111.55	2004.45	1918.43	1820.11	1707.75	1610.01	1465.46	1154.53	1154.53
360.0	2044.83	1971.68	1895.02	1792.60	1696.63	1562.61	1440.30	1166.76	1166.76

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1077.28	949.41	830.67	704.90	564.10	465.61	381.57	290.27	229.35
45.0	1195.67	1078.04	931.15	808.84	687.11	554.85	460.05	378.11	307.89
90.0	1020.63	880.59	772.61	660.19	530.86	442.37	363.54	281.26	228.41
135.0	1257.71	1116.67	1000.79	877.90	755.58	614.54	513.30	423.76	344.17
180.0	1320.33	1206.21	1043.51	910.08	780.16	661.36	539.64	440.73	353.53
225.0	1156.70	1060.19	934.25	779.87	657.21	528.22	439.45	361.03	274.35
270.0	1244.25	1132.47	1011.33	852.15	731.00	623.91	505.11	410.30	331.88
315.0	1127.44	967.85	838.28	709.88	594.12	465.31	377.76	305.25	242.11
360.0	1077.28	949.41	830.67	704.90	564.10	465.61	381.57	290.27	229.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	180.25	143.56	109.61	91.18	75.20	65.95	58.82	52.73	46.88
45.0	307.89	185.22	141.39	115.99	97.73	81.93	72.51	64.67	58.23
90.0	185.75	145.02	119.74	100.95	84.39	74.62	66.42	59.63	52.55
135.0	309.06	309.06	164.04	131.85	103.58	87.67	75.79	64.14	56.94
180.0	305.55	305.55	167.37	136.12	111.37	88.90	76.96	65.19	57.47
225.0	218.93	174.69	141.04	109.85	92.35	79.77	70.05	60.51	54.54
270.0	301.45	301.45	158.89	131.09	102.18	87.14	75.03	65.25	56.42
315.0	179.66	142.03	108.62	89.89	76.49	64.43	57.12	51.03	45.00
360.0	180.25	143.56	109.61	91.18	75.20	65.95	58.82	52.73	46.88

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	42.96	39.74	36.11	33.65	31.66	29.79	27.80	26.39	25.28
45.0	51.79	47.58	43.66	40.32	36.69	34.29	31.54	29.50	27.92
90.0	47.99	44.01	39.85	36.93	34.35	31.95	29.61	27.97	26.16
135.0	49.69	45.06	41.08	37.69	33.88	31.43	29.32	27.51	25.75
180.0	51.79	45.76	41.84	38.51	35.46	32.36	30.26	28.38	26.86
225.0	49.80	44.83	41.32	38.27	35.00	32.83	30.67	28.38	26.74
270.0	50.50	45.82	40.91	37.63	34.06	31.84	29.79	28.03	26.16
315.0	41.14	37.75	34.70	31.54	29.50	27.80	26.22	24.58	23.41
360.0	42.96	39.74	36.11	33.65	31.66	29.79	27.80	26.39	25.28

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.88	22.88	21.89	20.78	20.01	19.37	18.61	18.08	17.62
45.0	26.04	24.76	23.47	22.41	21.19	20.37	19.55	18.96	18.14
90.0	24.87	23.64	22.30	21.24	20.42	19.66	18.96	18.26	17.73
135.0	24.40	23.29	21.95	21.13	20.31	19.55	18.96	18.32	17.85
180.0	25.16	23.99	22.94	21.77	21.01	20.31	19.55	18.96	18.49
225.0	25.40	24.11	22.65	21.65	20.72	19.96	19.08	18.49	17.79
270.0	24.93	23.76	22.77	21.65	20.89	20.13	19.31	18.73	18.14
315.0	22.41	21.54	20.54	19.84	19.08	18.49	17.97	17.32	16.85
360.0	23.88	22.88	21.89	20.78	20.01	19.37	18.61	18.08	17.62

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.21	16.68	16.27	15.92	15.57	15.10	14.75	14.28	13.99
45.0	17.67	17.15	16.56	16.15	15.68	15.16	14.69	14.40	13.93
90.0	17.26	16.74	16.15	15.68	15.16	14.75	14.34	13.93	13.58
135.0	17.38	16.91	16.39	15.98	15.63	15.16	14.75	14.46	14.05
180.0	17.85	17.44	16.97	16.62	16.15	15.74	15.33	14.98	14.51
225.0	17.26	16.74	16.21	15.74	15.39	14.86	14.51	14.10	13.75
270.0	17.50	17.03	16.44	16.04	15.63	15.22	14.81	14.34	13.99
315.0	16.44	15.98	15.57	15.16	14.81	14.40	14.05	13.69	13.34
360.0	17.21	16.68	16.27	15.92	15.57	15.10	14.75	14.28	13.99

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.64	13.23	12.87	12.58	12.17	11.88	11.59	11.24	10.89
45.0	13.58	13.17	12.76	12.41	12.11	11.76	11.35	11.06	10.71
90.0	13.23	12.76	12.41	12.11	11.76	11.35	11.06	10.71	10.42
135.0	13.69	13.28	12.93	12.52	12.23	11.94	11.53	11.24	10.94
180.0	14.22	13.75	13.40	13.05	12.58	12.23	11.94	11.47	11.24
225.0	13.28	12.93	12.58	12.23	11.82	11.53	11.18	10.77	10.48
270.0	13.64	13.17	12.82	12.47	12.06	11.65	11.29	10.89	10.59
315.0	12.93	12.58	12.23	11.88	11.53	11.12	10.83	10.53	10.24
360.0	13.64	13.23	12.87	12.58	12.17	11.88	11.59	11.24	10.89

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.65	10.36	10.07	9.83	9.60	9.31	9.01	8.72	7.96
45.0	10.42	10.12	9.71	9.48	9.19	8.90	8.60	8.43	8.19
90.0	10.07	9.83	9.48	9.25	9.01	8.60	8.43	8.25	8.02
135.0	10.53	10.30	10.01	9.66	9.42	9.19	8.78	8.54	8.31
180.0	10.89	10.53	10.30	9.89	9.60	9.31	9.07	8.78	8.54
225.0	10.12	9.89	9.60	9.36	8.95	8.72	8.54	8.37	8.08
270.0	10.30	9.95	9.66	9.31	9.01	8.72	8.49	8.25	8.08
315.0	9.95	9.60	9.36	9.07	8.78	8.60	8.43	8.13	7.90
360.0	10.65	10.36	10.07	9.83	9.60	9.31	9.01	8.72	7.96

Intensity data(cd)

C/γ(°)	90.0
0.0	7.96
45.0	7.96
90.0	7.96
135.0	8.08
180.0	8.02
225.0	7.96
270.0	7.90
315.0	7.84
360.0	7.96