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: 2-2689-L
Luminaire: 92.70.412.00
Report No: 2024301-B026
Ballast type: AC

Test No: 2024301-C026	Voltage(V): 33.970
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.530
Lamp flux(lm): 2575.0	Power (W): 18.004
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2135.19, Efficiency(%): 82.92% , Luminous Efficacy(lm/W): 118.60
Central intensity(cd): 3994.219, Maximum intensity(cd): 3994.219
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=43.2
[C90/270]Total=43.2
Field angle(10%Imax): [C0/180]Total=65.4
[C90/270]Total=65.4
Maximum s/h(1/2): C0_180=0.69 C90_270=0.69
Maximum s/h(1/4): C0_180=0.68 C90_270=0.68
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.92%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.738%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3994.219	0.000	0	0.00%	0.00%
1.0	3991.805	3.821	3.821	0.15%	0.18%
2.0	3984.124	11.448	15.269	0.44%	0.72%
3.0	3969.420	19.022	34.291	0.74%	1.61%
4.0	3941.622	26.481	60.772	1.03%	2.85%
5.0	3905.704	33.759	94.531	1.31%	4.43%
6.0	3857.569	40.798	135.329	1.58%	6.34%
7.0	3797.071	47.512	182.841	1.85%	8.56%
8.0	3721.943	53.812	236.653	2.09%	11.08%
9.0	3640.451	59.668	296.321	2.32%	13.88%
10.0	3541.182	64.991	361.313	2.52%	16.92%
11.0	3433.574	69.692	431.005	2.71%	20.19%
12.0	3310.750	73.725	504.73	2.86%	23.64%
13.0	3189.681	77.144	581.874	3.00%	27.25%
14.0	3049.447	79.860	661.734	3.10%	30.99%
15.0	2926.769	82.044	743.778	3.19%	34.83%
16.0	2780.975	83.634	827.412	3.25%	38.75%
17.0	2651.128	84.592	912.005	3.29%	42.71%
18.0	2509.357	85.085	997.09	3.30%	46.70%
19.0	2382.290	85.105	1082.195	3.31%	50.68%
20.0	2226.035	84.345	1166.54	3.28%	54.63%
21.0	2087.190	82.823	1249.363	3.22%	58.51%
22.0	1943.152	80.991	1330.354	3.15%	62.31%
23.0	1797.065	78.480	1408.834	3.05%	65.98%
24.0	1657.781	75.535	1484.369	2.93%	69.52%
25.0	1472.529	71.176	1555.546	2.76%	72.85%
26.0	1300.414	65.456	1621.001	2.54%	75.92%
27.0	1197.465	61.111	1682.112	2.37%	78.78%
28.0	1061.196	57.185	1739.297	2.22%	81.46%
29.0	907.128	51.497	1790.794	2.00%	83.87%
30.0	752.526	44.810	1835.604	1.74%	85.97%
31.0	610.426	37.929	1873.533	1.47%	87.75%
32.0	477.368	31.164	1904.697	1.21%	89.21%
33.0	362.657	24.747	1929.445	0.96%	90.36%
34.0	276.863	19.354	1948.798	0.75%	91.27%
35.0	232.693	15.825	1964.623	0.61%	92.01%
36.0	177.118	13.048	1977.672	0.51%	92.62%
37.0	122.780	9.781	1987.453	0.38%	93.08%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	107.499	7.686	1995.139	0.30%	93.44%
39.0	97.155	6.985	2002.124	0.27%	93.77%
40.0	88.720	6.483	2008.607	0.25%	94.07%
41.0	81.632	6.066	2014.673	0.24%	94.36%
42.0	75.955	5.725	2020.399	0.22%	94.62%
43.0	70.315	5.418	2025.817	0.21%	94.88%
44.0	65.326	5.119	2030.936	0.20%	95.12%
45.0	60.988	4.854	2035.791	0.19%	95.34%
46.0	57.089	4.618	2040.408	0.18%	95.56%
47.0	53.438	4.396	2044.804	0.17%	95.77%
48.0	50.190	4.189	2048.994	0.16%	95.96%
49.0	47.074	3.994	2052.988	0.16%	96.15%
50.0	44.258	3.808	2056.796	0.15%	96.33%
51.0	41.675	3.636	2060.431	0.14%	96.50%
52.0	39.386	3.478	2063.91	0.14%	96.66%
53.0	37.037	3.324	2067.234	0.13%	96.82%
54.0	35.004	3.175	2070.41	0.12%	96.97%
55.0	33.131	3.041	2073.451	0.12%	97.11%
56.0	31.310	2.912	2076.363	0.11%	97.24%
57.0	29.729	2.791	2079.154	0.11%	97.38%
58.0	28.237	2.681	2081.834	0.10%	97.50%
59.0	26.906	2.578	2084.412	0.10%	97.62%
60.0	25.567	2.479	2086.891	0.10%	97.74%
61.0	24.338	2.382	2089.273	0.09%	97.85%
62.0	23.116	2.287	2091.559	0.09%	97.96%
63.0	21.844	2.187	2093.746	0.08%	98.06%
64.0	20.600	2.083	2095.829	0.08%	98.16%
65.0	19.466	1.983	2097.812	0.08%	98.25%
66.0	18.252	1.882	2099.693	0.07%	98.34%
67.0	17.330	1.789	2101.483	0.07%	98.42%
68.0	16.745	1.726	2103.209	0.07%	98.50%
69.0	16.467	1.694	2104.903	0.07%	98.58%
70.0	16.320	1.684	2106.587	0.07%	98.66%
71.0	16.255	1.684	2108.271	0.07%	98.74%
72.0	16.284	1.692	2109.962	0.07%	98.82%
73.0	16.116	1.694	2111.657	0.07%	98.90%
74.0	15.977	1.687	2113.344	0.07%	98.98%
75.0	15.611	1.669	2115.013	0.06%	99.06%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.238	1.638	2116.65	0.06%	99.13%
77.0	14.887	1.606	2118.257	0.06%	99.21%
78.0	14.543	1.575	2119.832	0.06%	99.28%
79.0	14.126	1.540	2121.372	0.06%	99.35%
80.0	13.782	1.505	2122.877	0.06%	99.42%
81.0	13.277	1.463	2124.34	0.06%	99.49%
82.0	12.663	1.407	2125.747	0.05%	99.56%
83.0	12.341	1.359	2127.106	0.05%	99.62%
84.0	11.829	1.317	2128.423	0.05%	99.68%
85.0	11.112	1.252	2129.675	0.05%	99.74%
86.0	10.629	1.188	2130.863	0.05%	99.80%
87.0	10.234	1.142	2132.005	0.04%	99.85%
88.0	9.788	1.097	2133.102	0.04%	99.90%
89.0	9.444	1.054	2134.156	0.04%	99.95%
90.0	9.400	1.033	2135.189	0.04%	100.00%

Zonal flux distribution table

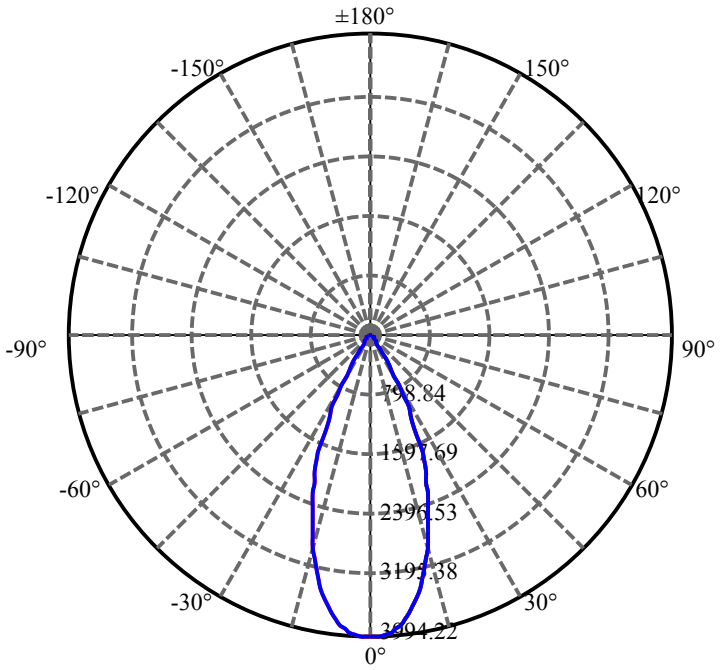
ZONAL LUMEN SUMMARY

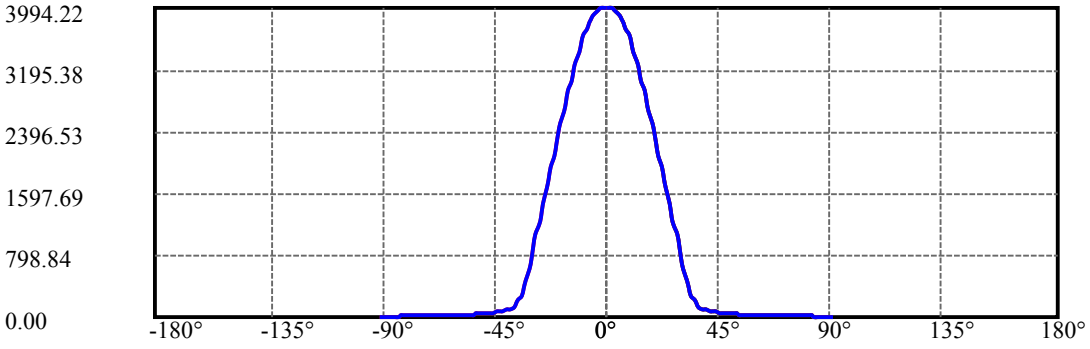
Zone	Lumens	%Lamp	%Fixt
0-30	1835.60	71.29%	85.97%
0-40	2008.61	78.00%	94.07%
0-60	2086.89	81.04%	97.74%
0-90	2134.16	82.88%	99.95%
0-120	2134.16	82.88%	99.95%
0-180	2135.19	82.92%	100.00%
60-90	47.26	1.84%	2.21%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.46	1708.15	66.34%	80.00%

ZONAL LUMEN SUMMARY

0-10	361.31
10-20	805.23
20-30	669.06
30-40	173.00
40-50	48.19
50-60	30.10
60-70	19.70
70-80	16.29
80-90	11.28
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):

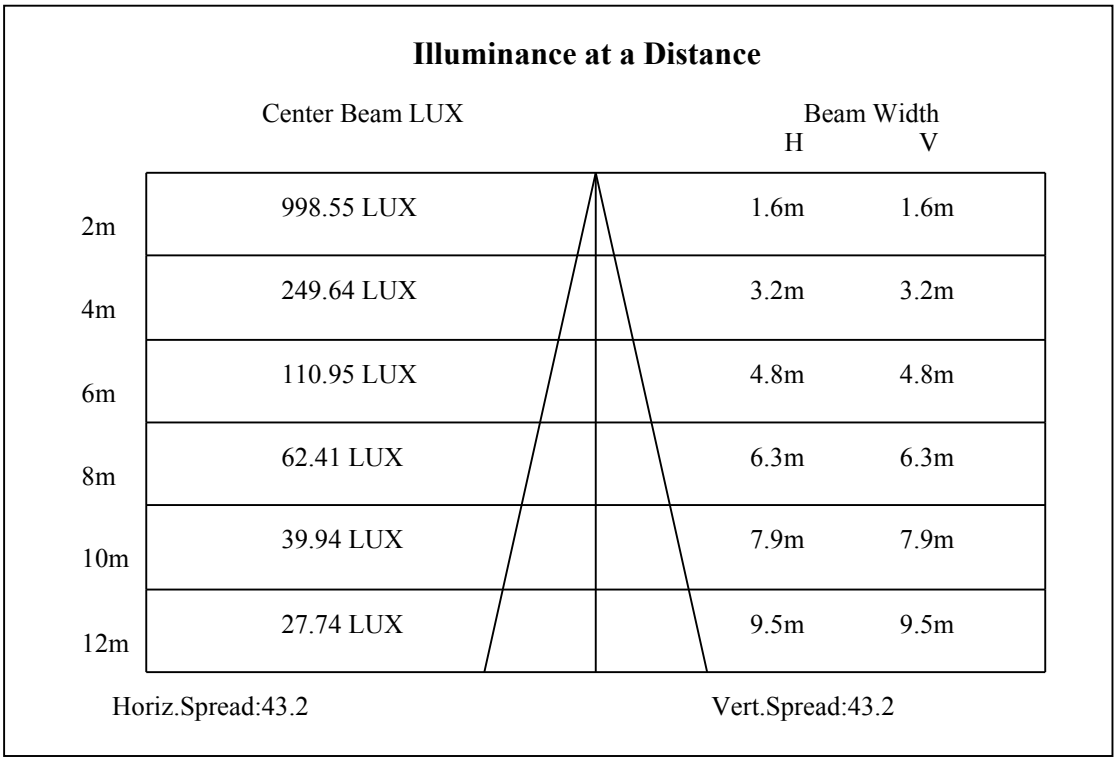
C0/C180:

C90/C270:

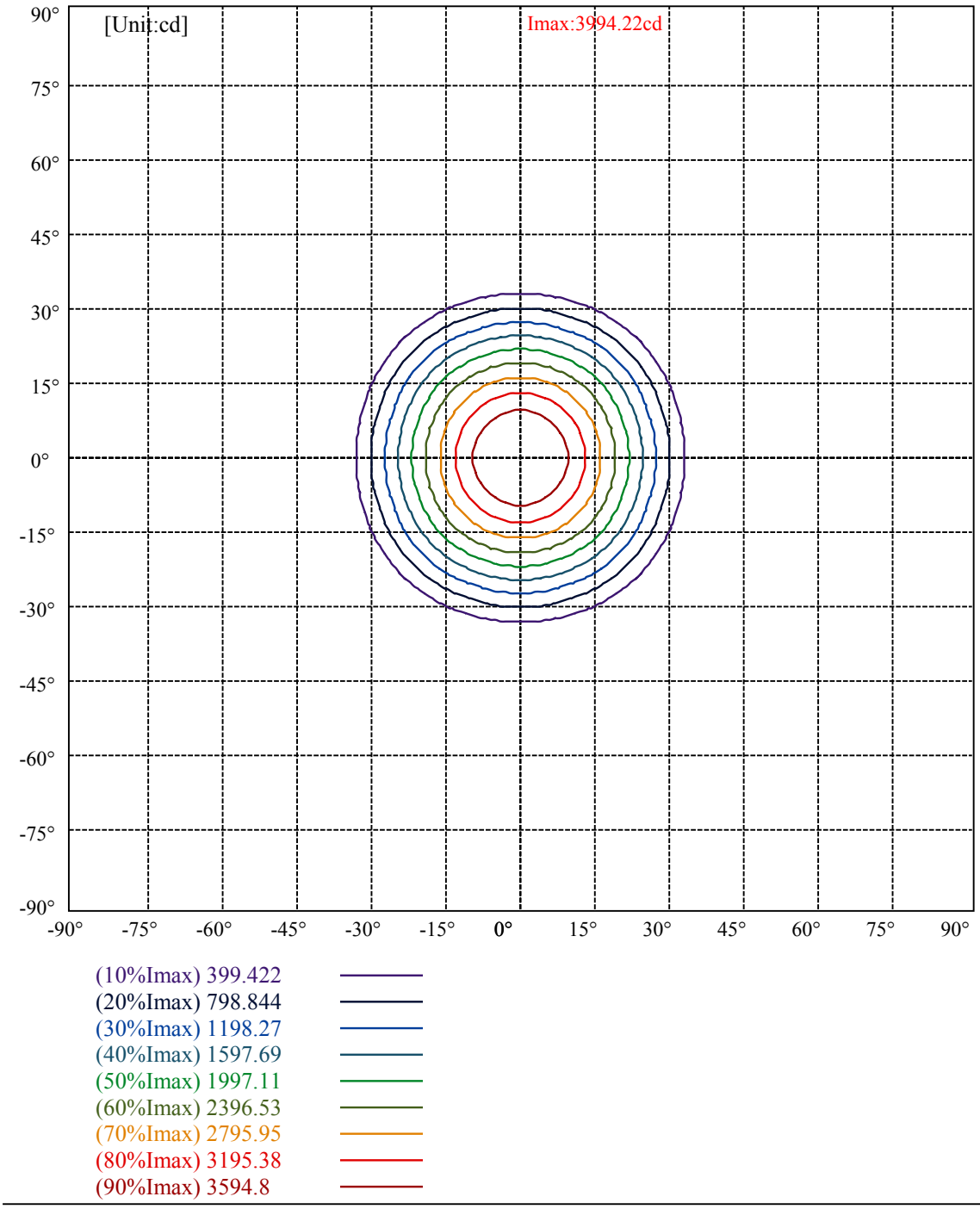
Field angle(10%Imax):C0/180Left:32.7 Right:32.7
:C90/270Left:32.7 Right:32.7

Beam Angle(50%Imax):C0/180Left:21.6 Right:21.6
:C90/270Left:21.6 Right:21.6

Lux distance Curve



ISO-Intensity(V-H)

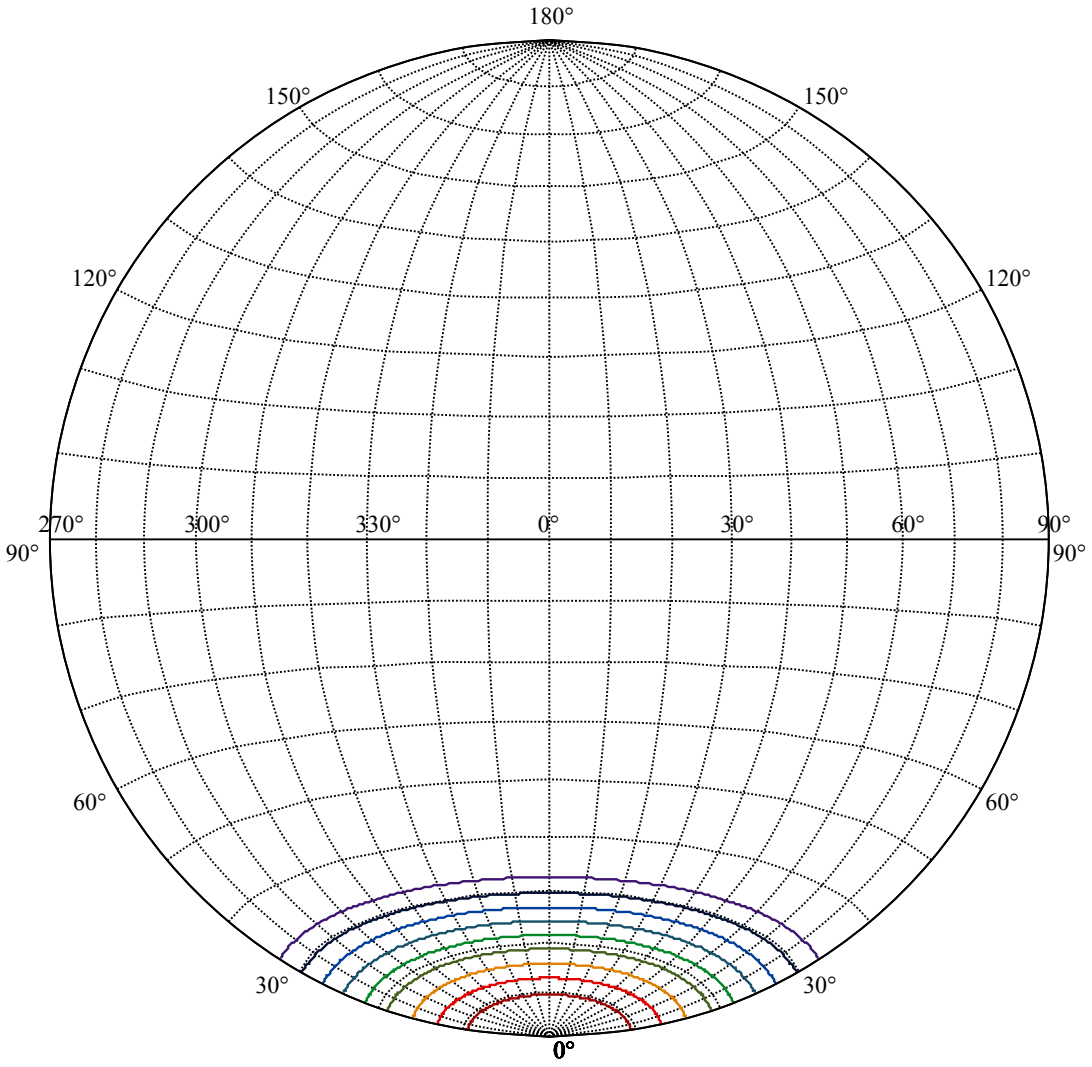


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



[Unit:cd]

Imax:3994.22

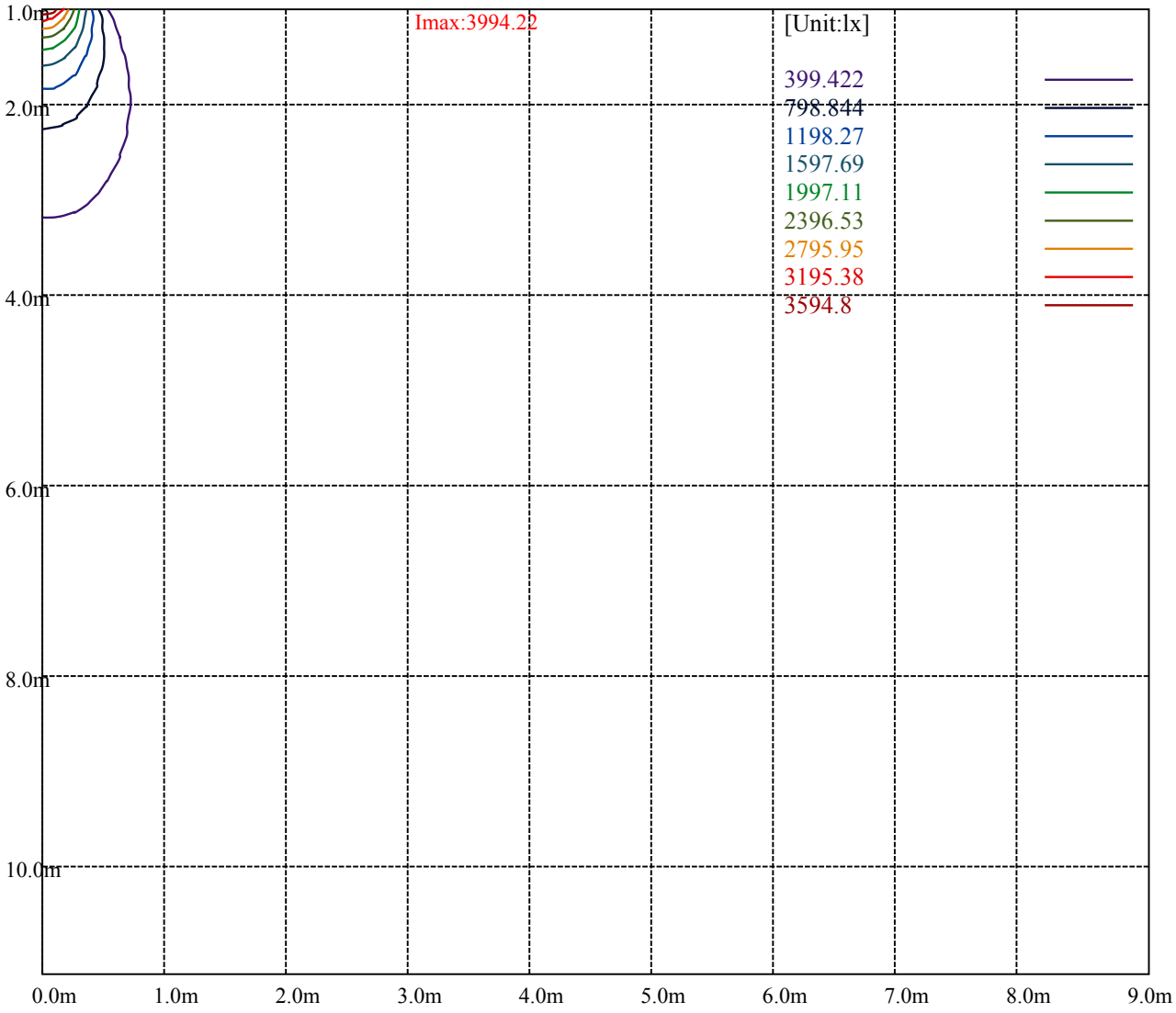
(10%Imax) 399.422
(20%Imax) 798.844
(30%Imax) 1198.27
(40%Imax) 1597.69
(50%Imax) 1997.11
(60%Imax) 2396.53
(70%Imax) 2795.95
(80%Imax) 3195.38
(90%Imax) 3594.8

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

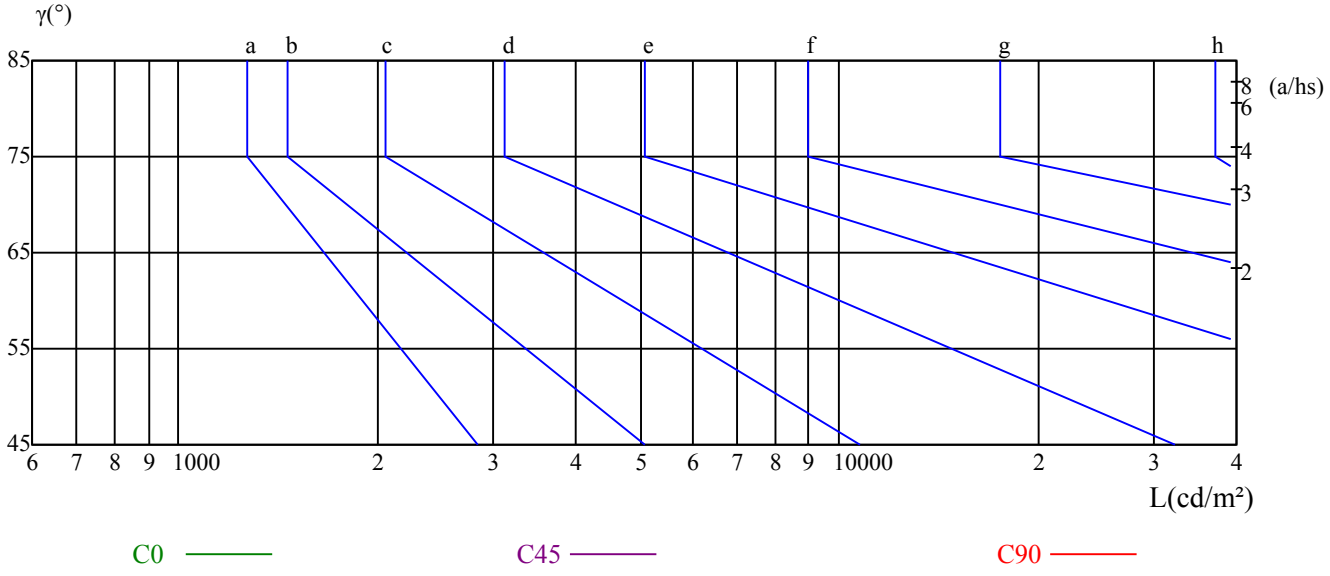
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

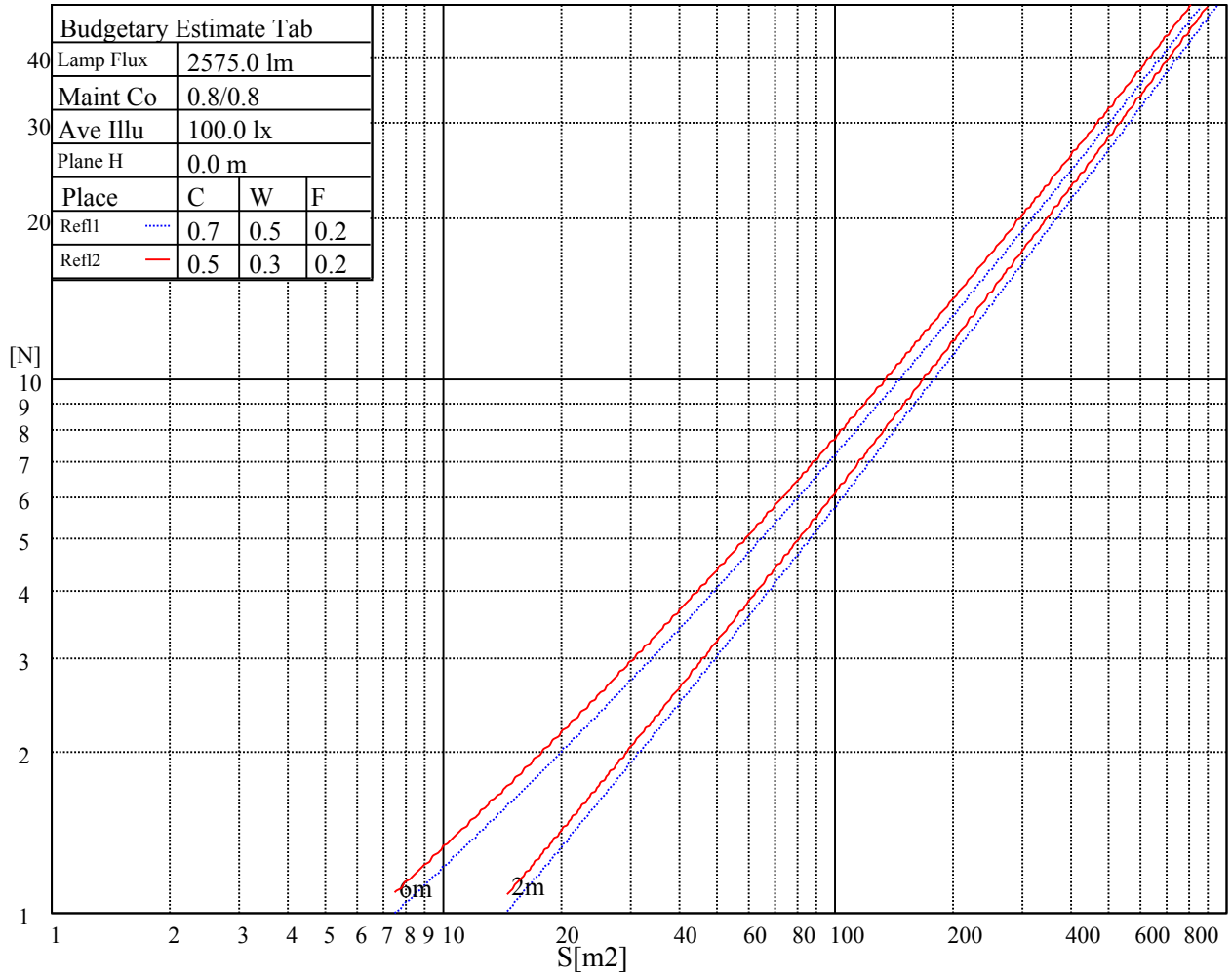
Luminance Limitting Curve



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 X Y	Viewed crosswise					Viewed endwise				
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
2H 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
2H 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
2H 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
2H 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
2H 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
4H 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 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
4H 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
4H 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
4H 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
8H 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 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
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
12H 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
12H 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

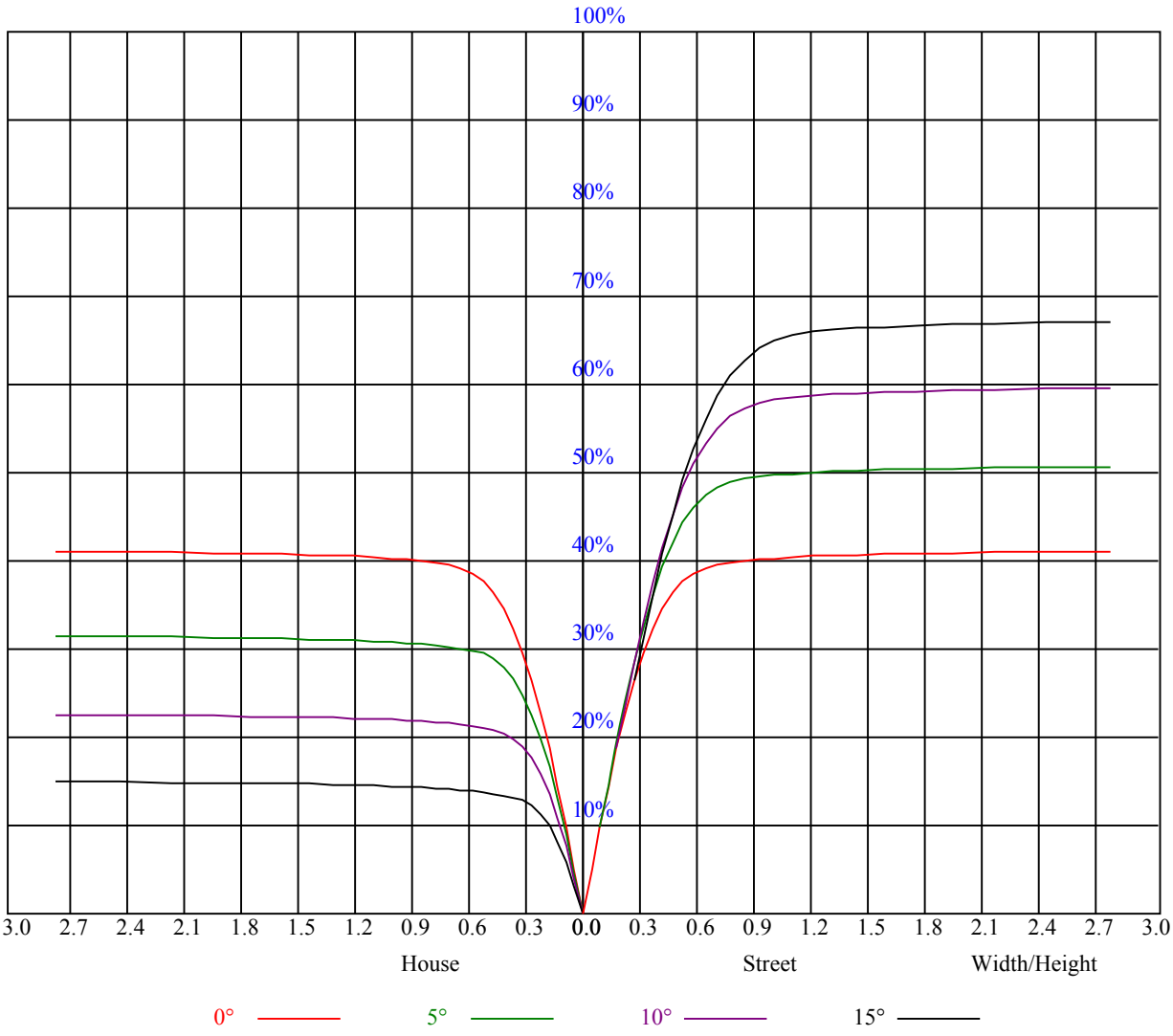


Equipment: GMS1980 Date: 2024/3/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

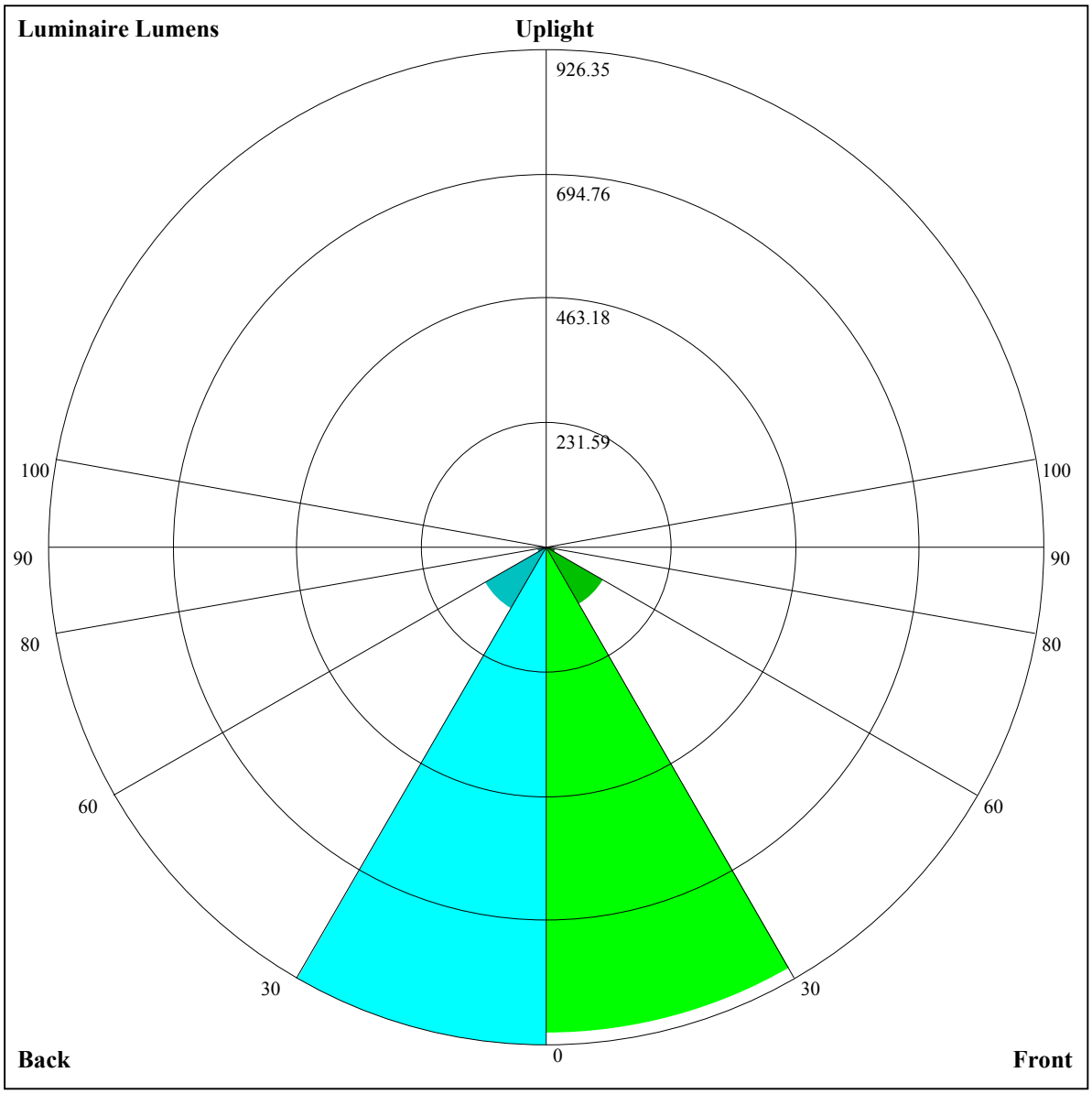
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.92	0.90	0.88	0.90	0.89	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.73
3	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.72	0.71	0.69
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.69	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.60	0.59
7	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	0.60	0.57	0.56
8	0.63	0.59	0.56	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54
9	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.58	0.55	0.52	0.51
10	0.58	0.53	0.51	0.57	0.53	0.50	0.57	0.53	0.50	0.56	0.53	0.50	0.55	0.52	0.50	0.49

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/01	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=903.97,FM=122.83,FH=17.53,FVH=6.09
BL=926.35,BM=133.73,BH=18.83,BVH=6.25
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	3992.46	3984.86	3969.05	3945.65	3902.34	3860.20	3808.70	3743.74	3641.33
45.0	3992.46	3990.12	3986.61	3967.88	3946.23	3917.55	3878.93	3815.73	3754.28
90.0	3993.63	3981.93	3964.96	3942.72	3907.02	3851.42	3799.34	3729.70	3632.55
135.0	3998.32	3997.15	3984.27	3966.13	3926.92	3888.29	3838.55	3778.27	3691.66
180.0	3992.46	3991.29	3989.54	3982.51	3971.40	3946.82	3902.92	3855.52	3797.00
225.0	3992.46	3991.88	3984.86	3971.40	3938.62	3898.24	3850.84	3776.52	3703.95
270.0	3993.63	3996.56	3997.73	3995.39	3979.00	3955.01	3907.02	3859.03	3802.27
315.0	3998.32	4000.66	3995.97	3983.69	3961.45	3928.09	3874.25	3818.07	3752.52
360.0	3992.46	3984.86	3969.05	3945.65	3902.34	3860.20	3808.70	3743.74	3641.33

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3547.69	3441.18	3324.14	3168.47	3043.23	2888.14	2761.15	2634.74	2508.33
45.0	3682.29	3597.44	3473.37	3361.59	3242.21	3085.36	2960.71	2800.95	2671.61
90.0	3544.77	3438.84	3299.56	3180.17	3057.86	2905.70	2775.78	2649.37	2522.38
135.0	3609.73	3518.43	3417.77	3277.32	3159.69	3040.30	2916.82	2758.81	2633.57
180.0	3727.36	3631.38	3544.18	3446.45	3339.35	3194.22	3078.34	2922.09	2796.85
225.0	3622.02	3506.14	3403.73	3293.12	3176.66	3028.01	2908.04	2783.39	2631.23
270.0	3715.07	3635.48	3546.52	3413.68	3300.73	3181.34	3063.13	2907.46	2777.54
315.0	3674.69	3560.57	3459.32	3345.20	3197.73	3072.49	2950.18	2791.00	2667.51
360.0	3547.69	3441.18	3324.14	3168.47	3043.23	2888.14	2761.15	2634.74	2508.33

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2347.40	2214.55	2040.74	1905.55	1770.95	1638.69	1470.14	1143.94	1143.94
45.0	2544.62	2415.28	2247.91	2110.38	1974.02	1837.67	1675.56	1543.30	1399.92
90.0	2360.86	2228.60	2088.73	1950.03	1780.31	1649.22	1518.72	1164.66	1164.66
135.0	2476.73	2347.98	2216.89	2046.01	1909.65	1779.14	1650.39	1486.53	1344.91
180.0	2673.95	2557.49	2390.12	2261.37	2127.94	1959.98	1826.55	1698.97	1546.81
225.0	2507.16	2379.58	2212.79	2074.68	1941.25	1776.22	1651.56	1524.57	1133.76
270.0	2655.81	2535.25	2365.54	2234.45	2098.68	1928.96	1793.77	1670.29	1509.94
315.0	2508.33	2379.58	2245.57	2115.06	1942.42	1806.65	1675.56	1547.98	1159.39
360.0	2347.40	2214.55	2040.74	1905.55	1770.95	1638.69	1470.14	1143.94	1143.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1030.05	882.99	707.13	576.74	456.42	323.98	238.25	166.09	135.66
45.0	1251.27	1063.41	914.77	739.78	605.77	484.04	374.60	302.03	302.03
90.0	1016.77	874.44	735.69	604.89	456.71	350.55	262.12	193.71	142.97
135.0	1197.43	1014.84	870.29	730.42	599.33	450.68	345.93	299.11	299.11
180.0	1416.89	1275.85	1127.79	941.69	794.21	652.58	493.40	380.45	307.30
225.0	1133.76	1061.42	912.60	765.65	593.30	470.64	360.67	246.91	181.19
270.0	1374.17	1230.20	1047.61	899.55	753.83	617.47	464.14	355.88	308.47
315.0	1159.39	1086.41	941.16	761.49	623.85	469.00	362.14	270.73	184.81
360.0	1030.05	882.99	707.13	576.74	456.42	323.98	238.25	166.09	135.66

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	118.33	105.52	93.81	86.55	80.06	72.86	67.89	63.38	59.34
45.0	141.16	122.19	107.97	97.91	88.08	81.40	75.55	70.29	64.43
90.0	123.31	109.03	98.43	88.43	81.76	74.32	69.17	64.43	59.34
135.0	138.05	119.50	103.29	94.10	86.67	78.65	73.21	68.30	63.85
180.0	307.30	145.37	119.62	106.80	97.21	89.31	82.69	75.38	70.29
225.0	136.42	119.44	107.56	98.73	89.71	83.57	78.01	72.92	67.07
270.0	308.47	138.70	120.09	107.74	96.74	89.77	83.63	76.72	71.75
315.0	143.91	122.49	109.20	96.97	89.54	83.16	77.48	71.10	66.54
360.0	118.33	105.52	93.81	86.55	80.06	72.86	67.89	63.38	59.34

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	54.78	51.38	48.46	44.95	42.43	39.68	37.51	35.52	33.71
45.0	60.22	56.53	52.14	49.10	46.17	42.90	40.56	38.39	35.87
90.0	55.71	52.32	48.57	45.88	43.37	41.14	38.45	36.46	34.59
135.0	59.05	55.65	52.44	49.39	45.88	43.31	40.44	38.33	36.34
180.0	65.49	61.45	56.77	53.49	50.33	46.76	44.30	41.90	39.15
225.0	62.97	59.22	55.83	51.85	48.92	46.23	43.07	40.79	38.10
270.0	67.18	62.21	58.70	55.36	51.50	48.69	46.12	43.66	40.73
315.0	62.50	57.94	54.60	51.50	47.99	45.35	42.96	40.03	37.81
360.0	54.78	51.38	48.46	44.95	42.43	39.68	37.51	35.52	33.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.54	30.02	28.56	27.15	25.57	24.40	23.29	21.83	20.72
45.0	34.06	32.36	30.72	28.85	27.51	26.16	24.99	23.64	22.47
90.0	32.95	30.96	29.44	28.15	26.57	25.46	24.11	22.94	21.71
135.0	34.12	32.42	30.84	29.38	27.74	26.51	25.34	24.17	22.71
180.0	37.04	34.70	32.95	31.37	29.90	28.56	26.98	25.81	24.76
225.0	36.11	34.18	32.13	30.49	29.14	27.80	26.34	25.22	23.99
270.0	38.51	36.58	34.18	32.42	30.84	29.03	27.68	26.39	25.05
315.0	35.70	33.83	31.66	30.02	28.62	27.33	25.81	24.70	23.53
360.0	31.54	30.02	28.56	27.15	25.57	24.40	23.29	21.83	20.72

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.66	18.38	17.26	16.27	15.63	14.98	14.81	14.46	14.10
45.0	21.19	20.13	19.08	17.73	16.62	15.98	15.63	15.51	15.57
90.0	20.60	19.37	18.26	17.26	16.74	16.74	16.97	16.85	16.33
135.0	21.48	20.31	19.02	17.91	16.97	16.21	15.68	15.27	14.98
180.0	23.35	22.06	20.95	19.66	18.49	17.56	16.68	16.33	16.39
225.0	22.71	21.24	20.19	18.96	17.91	17.73	17.73	17.85	18.02
270.0	23.82	22.59	21.30	20.01	19.20	18.61	18.55	19.08	19.72
315.0	21.95	20.72	19.66	18.20	17.09	16.15	15.68	15.22	14.92
360.0	19.66	18.38	17.26	16.27	15.63	14.98	14.81	14.46	14.10

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.81	13.58	13.34	12.93	12.76	12.52	12.47	12.41	12.58
45.0	15.45	15.16	14.75	14.28	13.81	13.34	12.99	12.76	12.64
90.0	16.09	15.33	14.86	14.10	13.52	12.99	12.76	12.64	12.52
135.0	14.63	14.34	13.99	13.69	13.40	13.17	12.87	12.70	12.58
180.0	17.32	17.73	18.20	18.43	18.26	18.32	18.02	17.32	16.44
225.0	18.67	18.73	19.08	18.96	18.38	17.91	17.26	16.33	15.22
270.0	19.72	19.78	19.61	18.79	18.43	17.73	17.15	16.21	15.74
315.0	14.57	14.28	13.99	13.69	13.34	13.11	12.82	12.64	12.52
360.0	13.81	13.58	13.34	12.93	12.76	12.52	12.47	12.41	12.58

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.58	12.47	11.94	10.89	10.36	10.36	9.71	9.31	9.31
45.0	12.64	12.58	12.41	11.88	11.00	10.42	10.30	9.71	9.31
90.0	12.47	12.29	12.11	11.24	10.48	10.24	9.77	9.36	9.36
135.0	12.52	12.35	12.29	11.65	10.89	10.48	10.30	9.54	9.36
180.0	15.39	13.28	12.41	12.35	12.06	11.29	10.53	10.24	9.71
225.0	13.40	12.64	12.35	11.88	11.24	10.71	10.42	9.71	9.31
270.0	14.63	13.11	12.64	12.41	11.65	11.00	10.53	10.30	9.66
315.0	12.58	12.58	12.58	12.35	11.24	10.53	10.30	10.12	9.54
360.0	12.58	12.47	11.94	10.89	10.36	10.36	9.71	9.31	9.31

Intensity data(cd)

C/γ(°)	90.0
0.0	9.54
45.0	9.36
90.0	9.48
135.0	9.48
180.0	9.31
225.0	9.36
270.0	9.31
315.0	9.36
360.0	9.54