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NT

Client:
LumCAT: 3-2833-L
Luminaire: 92.70.429.00
Report No: 2024411-B021
Ballast type: AC

Test No: 2024411-C021	Voltage(V): 34.830
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2685.0	Power (W): 18.459
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2304.30, Efficiency(%): 85.82% , Luminous Efficacy(lm/W): 124.83
Central intensity(cd): 8007.107, Maximum intensity(cd): 8007.107
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.2
[C90/270]Total=24.2
Field angle(10%Imax): [C0/180]Total=59.2
[C90/270]Total=59.2
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.925%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8007.107	0.000	0	0.00%	0.00%
1.0	7984.795	7.652	7.652	0.28%	0.33%
2.0	7900.377	22.800	30.452	0.85%	1.32%
3.0	7759.557	37.453	67.905	1.39%	2.95%
4.0	7519.395	51.144	119.049	1.90%	5.17%
5.0	7215.444	63.389	182.437	2.36%	7.92%
6.0	6793.204	73.619	256.056	2.74%	11.11%
7.0	6347.116	81.562	337.618	3.04%	14.65%
8.0	5863.135	87.386	425.005	3.25%	18.44%
9.0	5387.128	91.177	516.182	3.40%	22.40%
10.0	4921.728	93.291	609.473	3.47%	26.45%
11.0	4447.695	93.620	703.093	3.49%	30.51%
12.0	4043.671	92.823	795.916	3.46%	34.54%
13.0	3657.934	91.399	887.314	3.40%	38.51%
14.0	3283.756	88.853	976.167	3.31%	42.36%
15.0	2984.925	86.059	1062.227	3.21%	46.10%
16.0	2684.486	83.073	1145.299	3.09%	49.70%
17.0	2434.741	79.720	1225.02	2.97%	53.16%
18.0	2212.209	76.618	1301.638	2.85%	56.49%
19.0	2022.669	73.678	1375.316	2.74%	59.68%
20.0	1838.909	70.678	1445.993	2.63%	62.75%
21.0	1682.727	67.623	1513.616	2.52%	65.69%
22.0	1520.180	64.364	1577.98	2.40%	68.48%
23.0	1347.246	60.166	1638.146	2.24%	71.09%
24.0	1236.815	56.497	1694.643	2.10%	73.54%
25.0	1164.751	54.606	1749.249	2.03%	75.91%
26.0	1066.982	52.680	1801.93	1.96%	78.20%
27.0	985.490	50.214	1852.144	1.87%	80.38%
28.0	914.326	48.099	1900.243	1.79%	82.46%
29.0	853.938	46.263	1946.506	1.72%	84.47%
30.0	771.868	43.896	1990.402	1.63%	86.38%
31.0	677.947	40.346	2030.749	1.50%	88.13%
32.0	577.551	35.969	2066.717	1.34%	89.69%
33.0	468.875	30.828	2097.545	1.15%	91.03%
34.0	364.595	25.223	2122.769	0.94%	92.12%
35.0	272.949	19.800	2142.568	0.74%	92.98%
36.0	226.782	15.912	2158.48	0.59%	93.67%
37.0	142.510	12.044	2170.524	0.45%	94.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	93.417	7.875	2178.399	0.29%	94.54%
39.0	82.202	5.994	2184.393	0.22%	94.80%
40.0	74.616	5.469	2189.863	0.20%	95.03%
41.0	68.449	5.094	2194.957	0.19%	95.25%
42.0	62.670	4.764	2199.721	0.18%	95.46%
43.0	57.864	4.465	2204.186	0.17%	95.66%
44.0	53.190	4.191	2208.377	0.16%	95.84%
45.0	49.291	3.938	2212.316	0.15%	96.01%
46.0	45.830	3.720	2216.036	0.14%	96.17%
47.0	42.670	3.520	2219.556	0.13%	96.32%
48.0	40.198	3.350	2222.906	0.12%	96.47%
49.0	37.915	3.208	2226.113	0.12%	96.61%
50.0	35.772	3.072	2229.186	0.11%	96.74%
51.0	34.170	2.959	2232.145	0.11%	96.87%
52.0	32.838	2.875	2235.02	0.11%	96.99%
53.0	31.734	2.809	2237.829	0.10%	97.12%
54.0	30.797	2.756	2240.585	0.10%	97.23%
55.0	30.168	2.721	2243.307	0.10%	97.35%
56.0	29.561	2.699	2246.006	0.10%	97.47%
57.0	28.961	2.676	2248.681	0.10%	97.59%
58.0	28.325	2.649	2251.33	0.10%	97.70%
59.0	27.410	2.606	2253.936	0.10%	97.81%
60.0	26.350	2.540	2256.476	0.09%	97.92%
61.0	25.216	2.461	2258.937	0.09%	98.03%
62.0	24.075	2.375	2261.312	0.09%	98.13%
63.0	22.846	2.282	2263.594	0.08%	98.23%
64.0	21.661	2.184	2265.778	0.08%	98.33%
65.0	20.585	2.091	2267.868	0.08%	98.42%
66.0	19.539	2.002	2269.87	0.07%	98.51%
67.0	18.544	1.915	2271.785	0.07%	98.59%
68.0	17.688	1.835	2273.621	0.07%	98.67%
69.0	16.986	1.769	2275.39	0.07%	98.75%
70.0	16.350	1.712	2277.102	0.06%	98.82%
71.0	15.852	1.664	2278.766	0.06%	98.89%
72.0	15.362	1.623	2280.389	0.06%	98.96%
73.0	14.967	1.586	2281.975	0.06%	99.03%
74.0	14.587	1.554	2283.529	0.06%	99.10%
75.0	14.184	1.520	2285.049	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.855	1.488	2286.538	0.06%	99.23%
77.0	13.489	1.458	2287.995	0.05%	99.29%
78.0	13.204	1.429	2289.424	0.05%	99.35%
79.0	12.977	1.407	2290.831	0.05%	99.42%
80.0	12.590	1.378	2292.21	0.05%	99.48%
81.0	12.224	1.342	2293.551	0.05%	99.53%
82.0	11.880	1.307	2294.858	0.05%	99.59%
83.0	11.551	1.274	2296.132	0.05%	99.65%
84.0	11.273	1.243	2297.376	0.05%	99.70%
85.0	10.995	1.215	2298.591	0.05%	99.75%
86.0	10.754	1.189	2299.78	0.04%	99.80%
87.0	10.534	1.165	2300.945	0.04%	99.85%
88.0	10.271	1.140	2302.084	0.04%	99.90%
89.0	10.102	1.117	2303.201	0.04%	99.95%
90.0	10.029	1.104	2304.305	0.04%	100.00%

Zonal flux distribution table

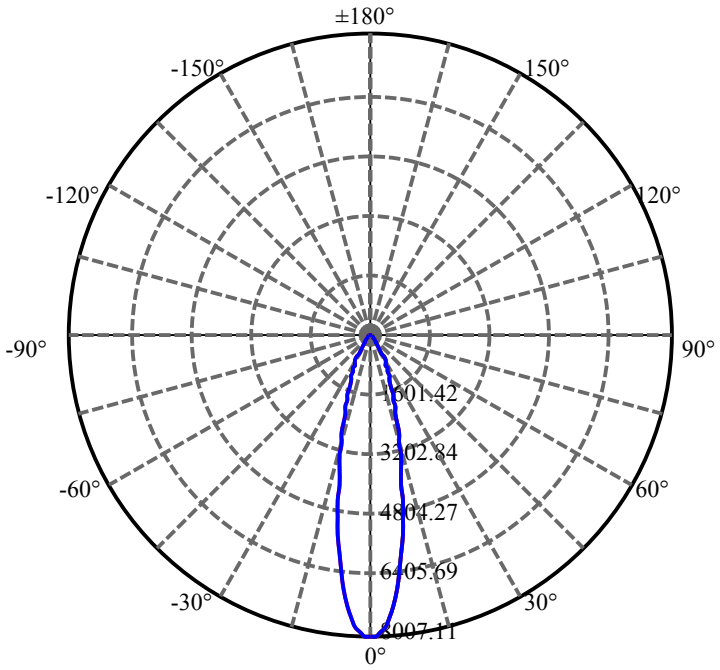
ZONAL LUMEN SUMMARY

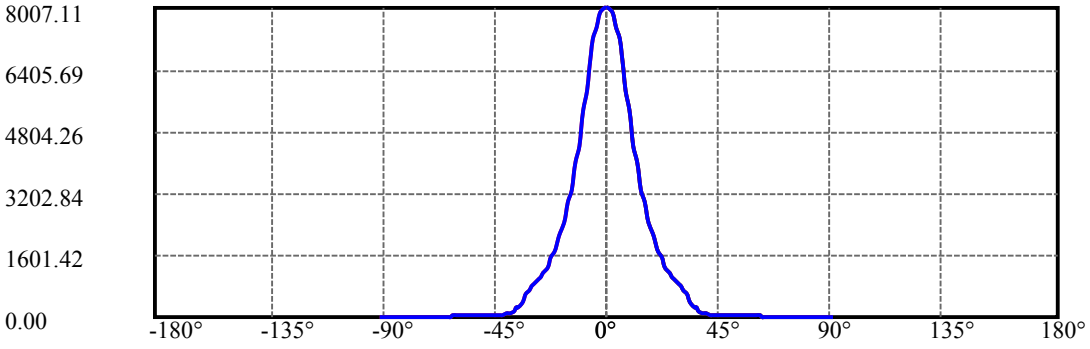
Zone	Lumens	%Lamp	%Fixt
0-30	1990.40	74.13%	86.38%
0-40	2189.86	81.56%	95.03%
0-60	2256.48	84.04%	97.92%
0-90	2303.20	85.78%	99.95%
0-120	2303.20	85.78%	99.95%
0-180	2304.30	85.82%	100.00%
60-90	46.73	1.74%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.83	1843.44	68.66%	80.00%

ZONAL LUMEN SUMMARY

0-10	609.47
10-20	836.52
20-30	544.41
30-40	199.46
40-50	39.32
50-60	27.29
60-70	20.63
70-80	15.11
80-90	10.99
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:

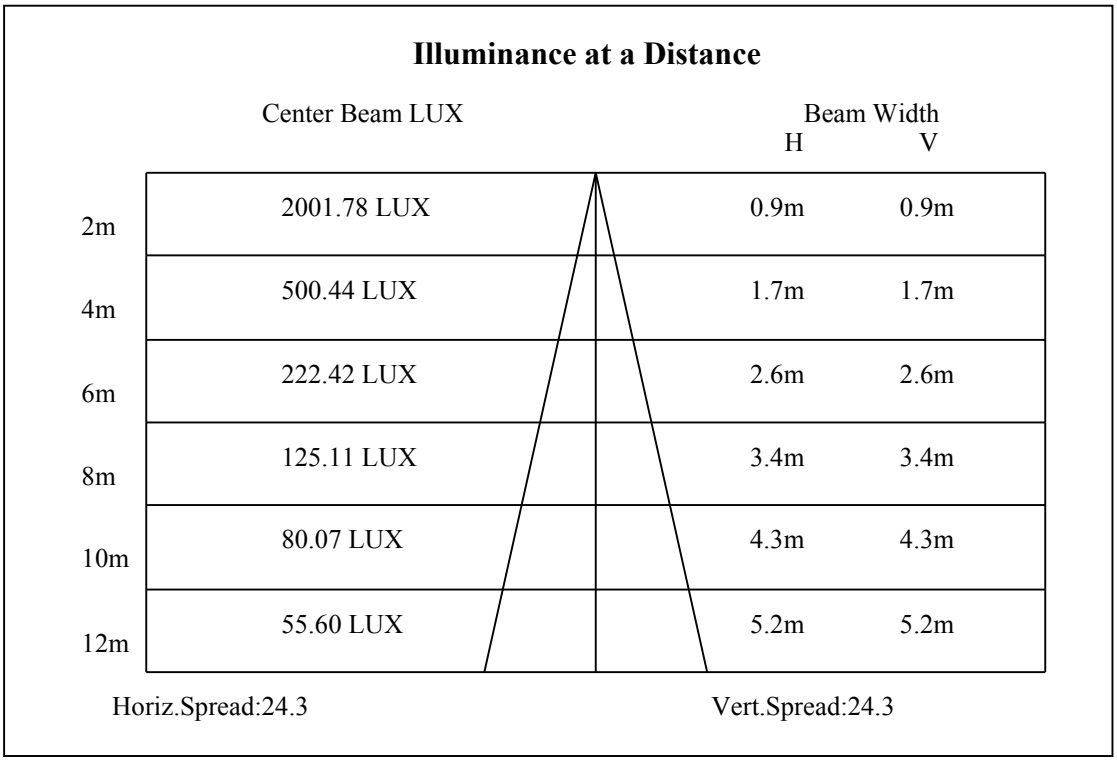
C90/C270:

Field angle(10%Imax):C0/180Left:29.6 Right:29.6
:C90/270Left:29.6 Right:29.6

Beam Angle(50%Imax):C0/180Left:12.1 Right:12.1
:C90/270Left:12.1 Right:12.1

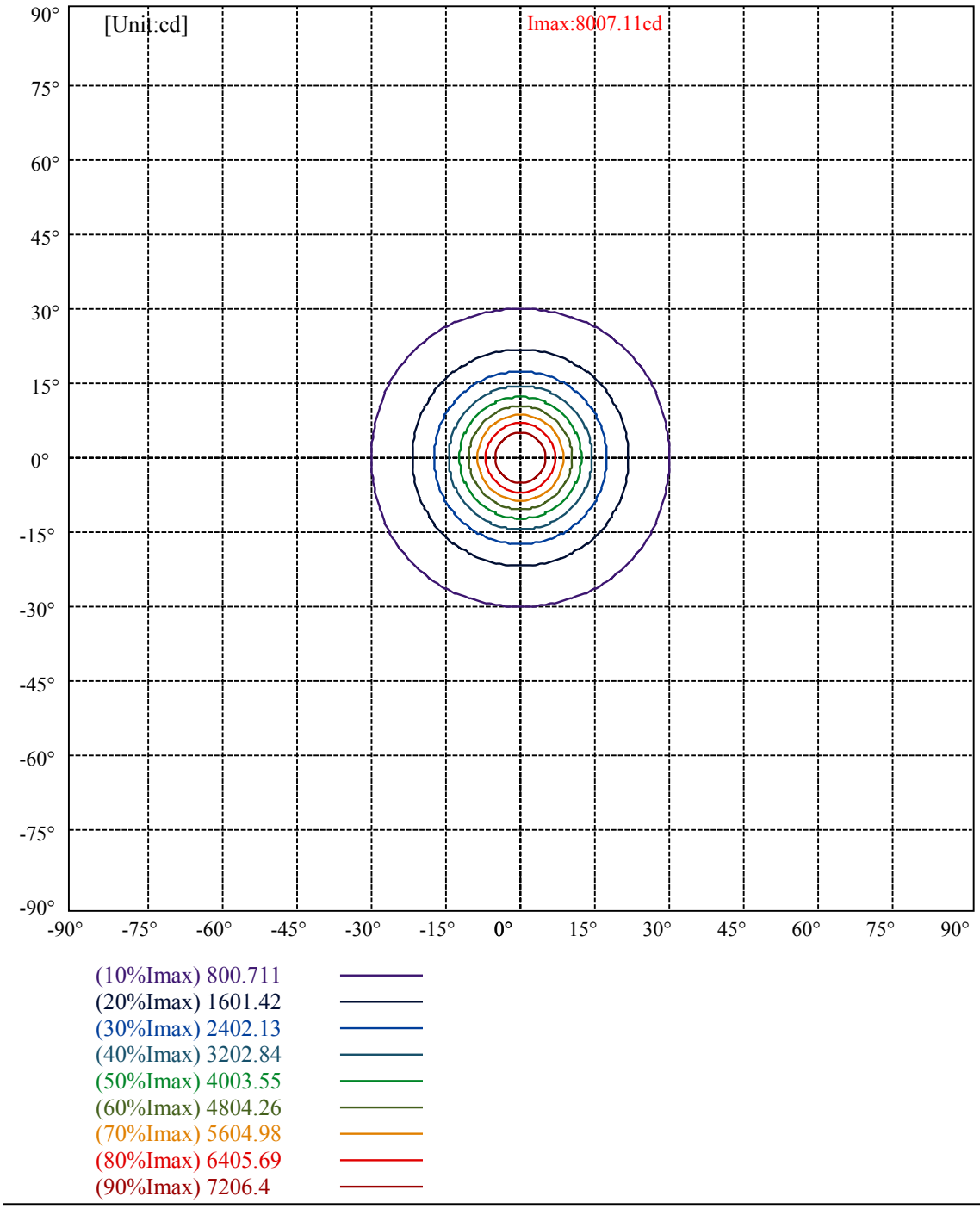
Equipment: GMS1980	Date: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

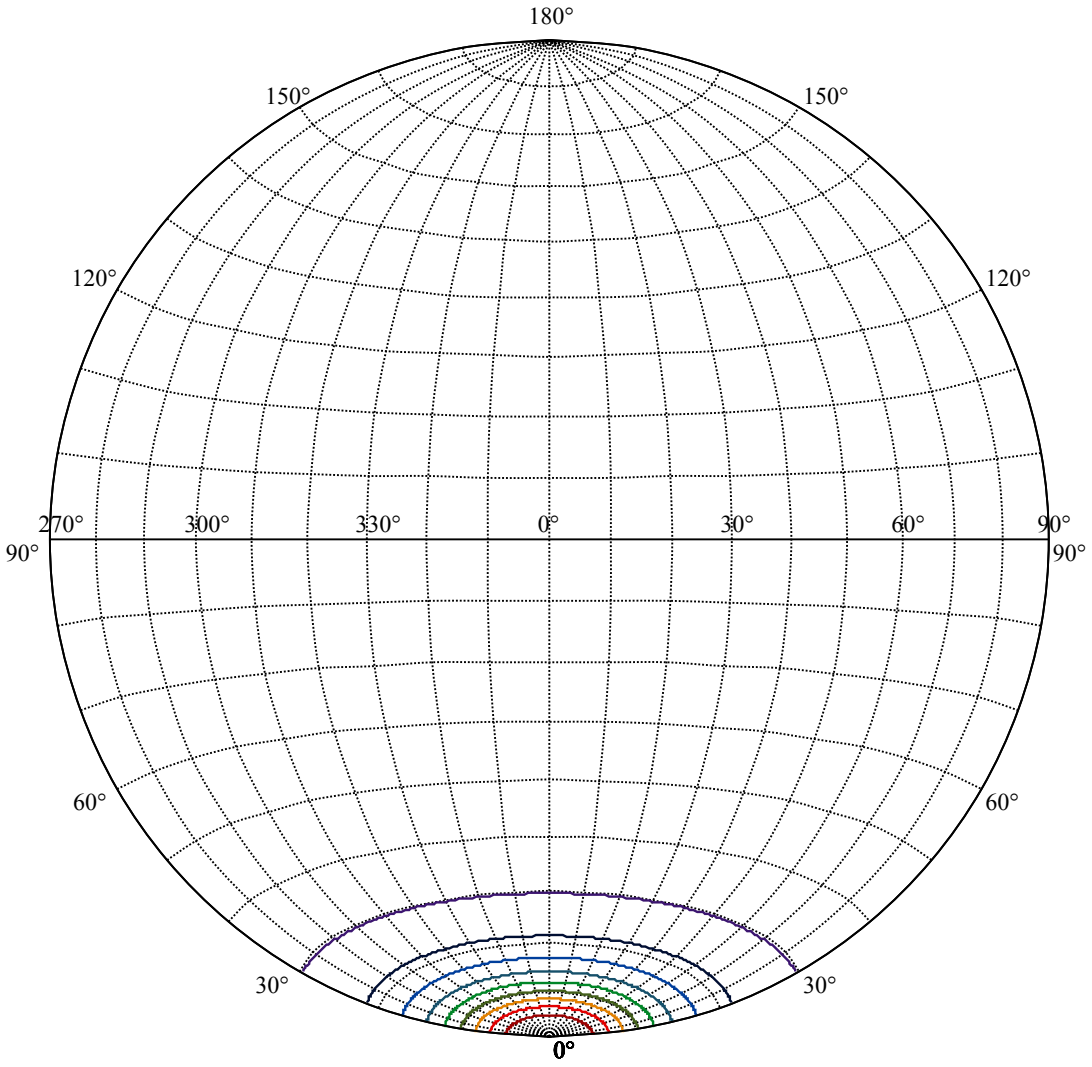


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web

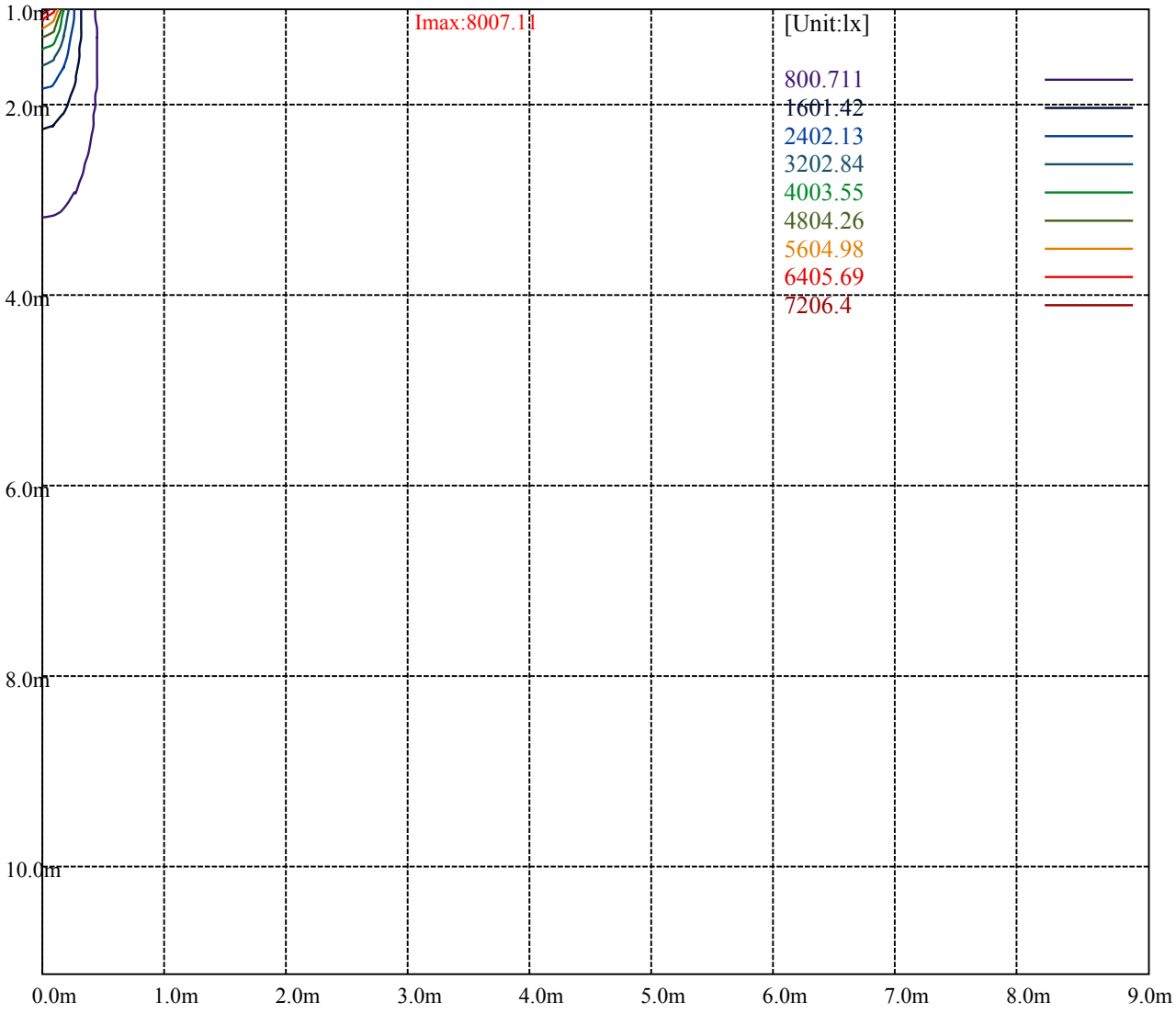


[Unit:cd]

Imax:8007.11

(10%Imax) 800.711
(20%Imax) 1601.42
(30%Imax) 2402.13
(40%Imax) 3202.84
(50%Imax) 4003.55
(60%Imax) 4804.26
(70%Imax) 5604.98
(80%Imax) 6405.69
(90%Imax) 7206.4

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

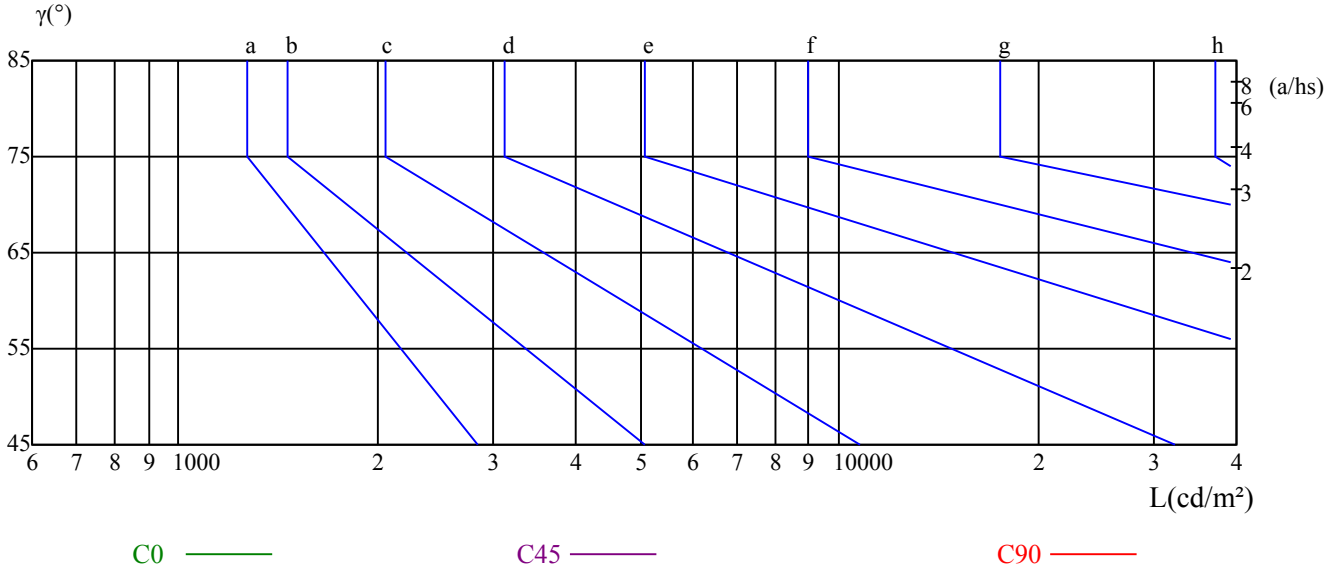
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

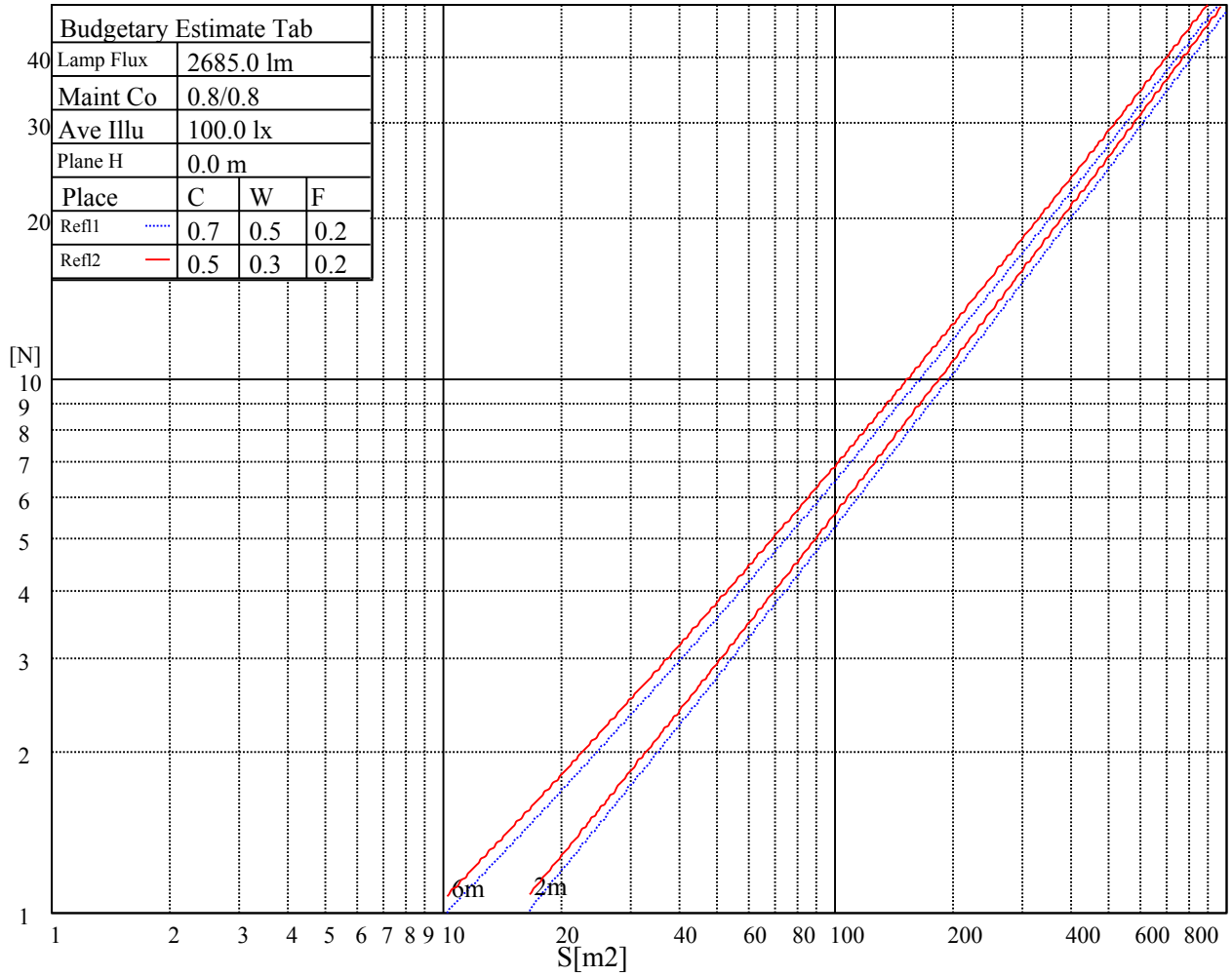
Date: 2024/4/11
Humidity(%): 60.0%

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

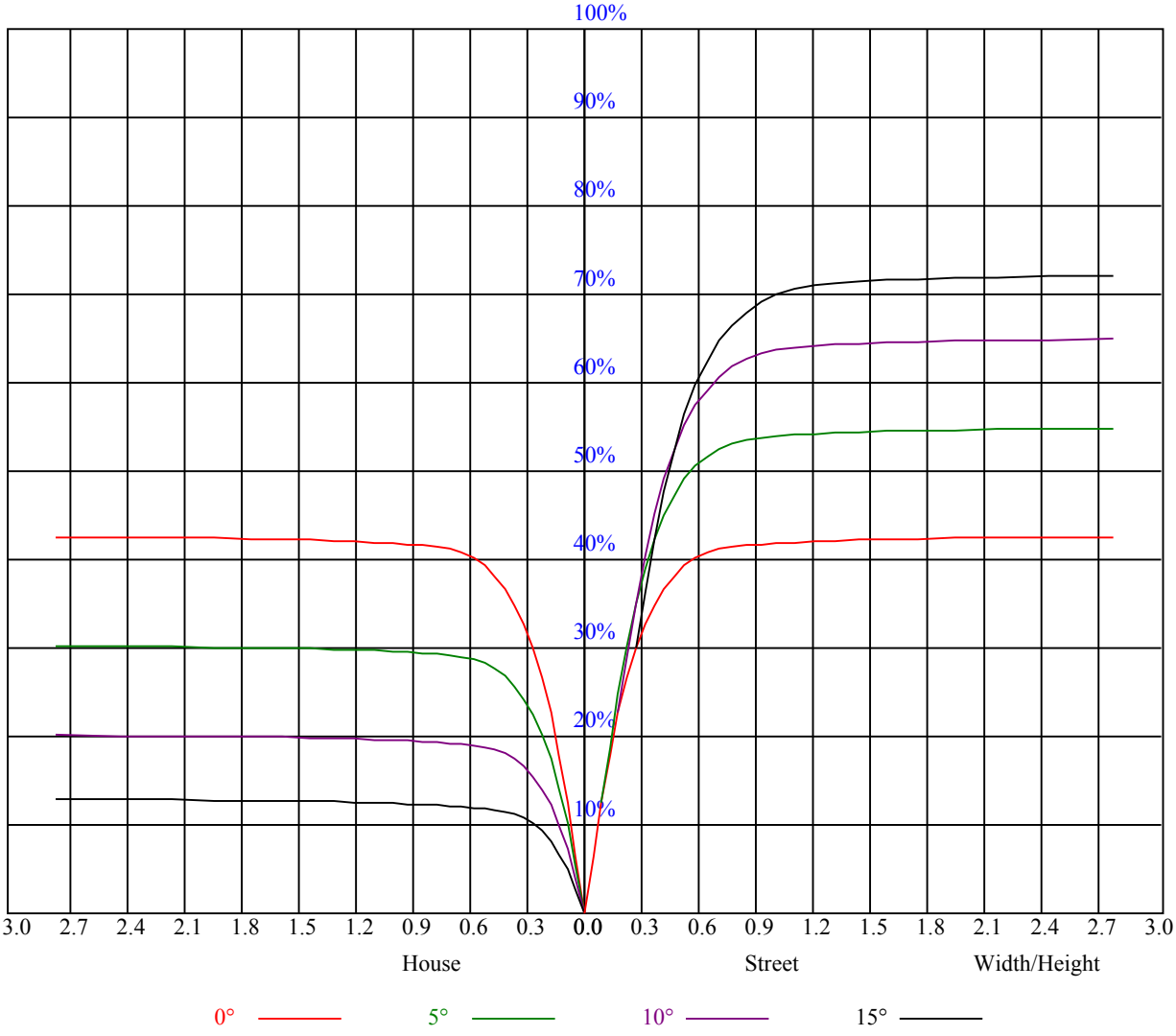


Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

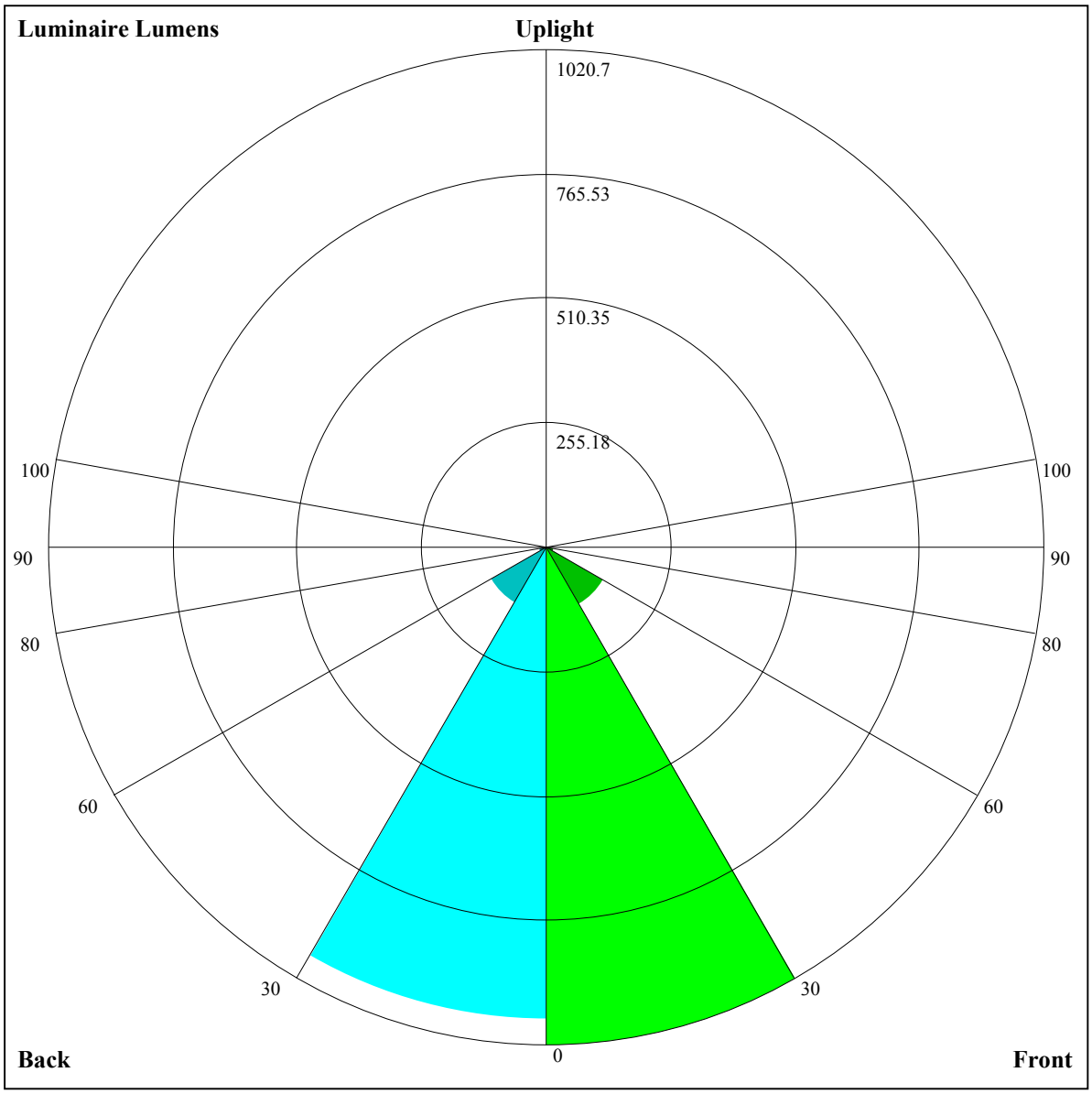
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.88	0.88	0.88	0.86
1	0.96	0.94	0.92	0.94	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.83	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.85	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.78	0.76	0.75	0.73
4	0.81	0.77	0.74	0.80	0.77	0.74	0.79	0.75	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
5	0.78	0.73	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	0.67	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	0.65	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	0.65	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: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=1020.7,FM=135.72,FH=18.02,FVH=6.09
BL=969.75,BM=131.1,BH=17.75,BVH=6.02
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	8049.83	8108.35	8080.85	7984.87	7809.89	7447.05	7063.14	6641.78	6071.18
45.0	7942.73	8033.44	8086.70	8073.82	7938.05	7742.59	7459.34	6980.62	6543.46
90.0	8023.49	8011.79	7931.03	7792.91	7493.86	7166.72	6666.36	6237.39	5780.91
135.0	8012.37	7995.40	7916.98	7803.45	7564.68	7297.81	6951.36	6453.92	6018.51
180.0	8049.83	7963.22	7827.44	7593.94	7331.17	7026.86	6559.26	6121.51	5701.32
225.0	7942.73	7791.74	7562.34	7310.69	6998.18	6626.56	6099.86	5655.67	5208.56
270.0	8023.49	7986.62	7897.67	7770.09	7514.35	7238.12	6884.65	6470.31	5940.68
315.0	8012.37	7987.79	7900.01	7746.68	7504.98	7177.84	6661.67	6215.73	5640.46
360.0	8049.83	8108.35	8080.85	7984.87	7809.89	7447.05	7063.14	6641.78	6071.18

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5599.49	5134.24	4588.22	4177.98	3795.24	3368.03	3070.15	2798.60	2502.48
45.0	6089.32	5631.09	5066.94	4646.75	4249.96	3861.37	3514.33	3121.06	2837.81
90.0	5333.80	4794.81	4376.96	3990.12	3625.53	3225.82	2934.38	2667.51	2426.40
135.0	5473.08	5041.19	4619.24	4131.75	3761.88	3411.34	3091.22	2741.84	2501.31
180.0	5161.16	4732.19	4319.02	3925.75	3484.49	3157.35	2857.13	2602.55	2323.99
225.0	4770.81	4257.57	3881.27	3528.97	3129.26	2845.42	2592.02	2307.02	2105.70
270.0	5487.13	5040.60	4502.19	4097.80	3723.26	3295.46	2987.63	2648.79	2415.87
315.0	5182.23	4742.14	4227.72	3850.25	3493.85	3105.26	2832.55	2588.51	2364.37
360.0	5599.49	5134.24	4588.22	4177.98	3795.24	3368.03	3070.15	2798.60	2502.48

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2295.31	2106.87	1936.57	1748.71	1605.33	1473.66	1164.48	1164.48	1081.61
45.0	2590.85	2321.65	2130.86	1910.82	1758.07	1612.94	1444.98	1317.40	1195.67
90.0	2173.58	1993.33	1794.94	1649.81	1517.55	1166.88	1166.88	1143.65	1058.38
135.0	2293.56	2104.53	1897.94	1751.05	1612.94	1452.00	1334.37	1222.01	1102.04
180.0	2129.11	1954.71	1762.76	1623.47	1491.80	1339.05	1240.74	1140.08	1037.66
225.0	1883.31	1730.57	1590.70	1468.39	1164.66	1164.66	1117.66	1036.84	964.86
270.0	2215.72	2025.52	1810.74	1665.02	1530.42	1406.35	1262.97	1159.39	1072.78
315.0	2116.23	1944.18	1786.75	1644.54	1480.68	1162.43	1162.43	1134.17	1022.86
360.0	2295.31	2106.87	1936.57	1748.71	1605.33	1473.66	1164.48	1164.48	1081.61

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	996.05	918.04	862.62	767.23	674.59	574.46	473.62	347.16	252.23
45.0	1088.58	983.82	921.79	870.29	803.57	694.72	599.91	499.84	374.02
90.0	972.23	916.93	865.08	792.57	677.34	575.86	470.58	369.10	253.17
135.0	1016.59	944.03	872.63	816.45	738.03	644.98	527.35	430.20	334.81
180.0	968.61	905.40	853.32	763.19	671.31	571.82	469.99	347.10	300.86
225.0	891.47	845.12	774.43	661.01	563.69	463.38	342.06	251.59	153.45
270.0	993.77	914.77	862.68	772.56	685.94	588.79	461.22	362.90	316.08
315.0	956.61	886.50	818.96	731.65	609.10	506.40	406.26	308.88	198.98
360.0	996.05	918.04	862.62	767.23	674.59	574.46	473.62	347.16	252.23

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	172.76	117.63	91.65	82.58	76.02	68.65	63.38	58.52	53.02
45.0	300.28	300.28	116.28	94.51	82.93	76.14	69.99	64.61	59.69
90.0	175.27	108.68	90.77	81.87	74.03	68.24	62.91	57.06	52.79
135.0	311.98	206.41	103.58	86.44	78.71	72.63	65.55	60.45	56.12
180.0	300.86	109.61	90.01	81.52	73.68	67.83	61.10	56.77	52.73
225.0	104.76	87.08	78.89	72.80	65.90	60.92	56.53	52.49	48.34
270.0	316.08	113.36	91.18	81.99	75.44	68.24	62.85	58.23	52.90
315.0	132.26	97.03	84.97	75.90	70.23	64.96	59.05	54.78	49.92
360.0	172.76	117.63	91.65	82.58	76.02	68.65	63.38	58.52	53.02

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	49.16	45.82	42.08	39.50	37.28	34.76	33.18	31.95	30.72
45.0	54.31	50.33	46.94	43.89	40.38	38.10	35.58	33.88	32.66
90.0	49.10	45.65	42.08	39.62	37.57	35.52	33.71	32.54	31.37
135.0	51.27	47.70	44.59	41.84	39.56	37.04	35.52	34.18	32.95
180.0	49.28	45.41	42.72	40.44	38.33	36.17	34.70	33.36	32.13
225.0	45.24	42.14	39.97	37.98	35.82	34.41	33.18	32.07	31.25
270.0	49.33	46.06	42.60	40.15	38.16	35.76	34.41	33.12	32.13
315.0	46.64	43.54	40.38	38.16	36.23	34.41	33.07	31.60	30.67
360.0	49.16	45.82	42.08	39.50	37.28	34.76	33.18	31.95	30.72

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.79	29.09	28.68	28.27	27.68	27.04	25.98	25.11	23.94
45.0	31.25	30.49	29.79	29.32	28.91	28.44	27.80	26.63	25.63
90.0	30.61	30.14	29.50	28.97	28.44	27.51	26.39	25.22	24.05
135.0	31.84	31.08	30.37	29.67	29.14	27.97	26.98	25.98	24.70
180.0	31.31	30.72	29.96	29.44	28.56	27.33	26.28	24.93	23.88
225.0	30.78	30.14	29.50	28.73	27.68	26.69	25.11	24.11	22.77
270.0	31.02	30.43	29.96	29.14	28.62	27.68	26.51	25.34	24.17
315.0	29.79	29.26	28.73	28.15	27.56	26.63	25.75	24.40	23.47
360.0	29.79	29.09	28.68	28.27	27.68	27.04	25.98	25.11	23.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.77	21.59	20.66	19.66	18.43	17.73	16.97	16.39	15.80
45.0	24.40	23.53	22.00	21.13	20.07	18.79	18.02	17.15	16.50
90.0	23.06	21.65	20.72	19.61	18.49	17.67	16.97	16.27	15.80
135.0	23.29	22.18	21.19	20.07	18.90	18.08	17.26	16.56	16.04
180.0	22.59	21.24	20.19	19.14	18.14	17.32	16.68	16.09	15.68
225.0	21.48	20.42	19.08	18.32	17.56	16.91	16.27	15.80	15.39
270.0	22.82	21.65	20.72	19.37	18.49	17.73	17.03	16.39	15.92
315.0	22.36	21.01	20.13	19.02	18.26	17.26	16.68	16.15	15.68
360.0	22.77	21.59	20.66	19.66	18.43	17.73	16.97	16.39	15.80

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.33	14.98	14.63	14.16	13.87	13.46	13.17	12.87	12.52
45.0	15.98	15.63	15.10	14.75	14.40	14.10	13.81	13.64	13.40
90.0	15.39	14.92	14.57	14.22	13.87	13.46	13.17	12.87	12.58
135.0	15.39	15.04	14.75	14.28	13.93	13.64	13.34	12.93	12.64
180.0	15.22	14.81	14.46	14.05	13.69	13.28	13.05	12.76	12.41
225.0	15.04	14.57	14.16	13.87	13.52	13.11	12.99	13.23	12.41
270.0	15.45	15.04	14.63	14.22	13.93	13.58	13.17	12.87	12.47
315.0	15.10	14.75	14.40	13.93	13.64	13.28	12.93	12.64	12.29
360.0	15.33	14.98	14.63	14.16	13.87	13.46	13.17	12.87	12.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.23	11.88	11.59	11.29	11.06	10.89	10.65	10.36	10.24
45.0	13.11	12.70	11.94	11.65	11.29	11.06	10.83	10.59	10.36
90.0	12.17	11.82	11.53	11.29	11.06	10.83	10.59	10.30	10.01
135.0	12.35	12.00	11.70	11.35	11.06	10.83	10.65	10.36	10.07
180.0	12.06	11.76	11.41	11.24	10.89	10.59	10.36	10.01	10.01
225.0	11.76	11.47	11.24	11.00	10.65	10.42	10.24	10.01	10.12
270.0	12.11	11.76	11.53	11.24	11.00	10.71	10.48	10.24	10.01
315.0	12.00	11.65	11.47	11.12	10.94	10.71	10.48	10.30	10.01
360.0	12.23	11.88	11.59	11.29	11.06	10.89	10.65	10.36	10.24

Intensity data(cd)

C/γ(°)	90.0
0.0	10.01
45.0	10.30
90.0	9.95
135.0	10.01
180.0	9.95
225.0	10.01
270.0	10.01
315.0	10.01
360.0	10.01