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NT

Client:
LumCAT: 2-2561-L
Luminaire: 92.70.412.00
Report No: 2024806-B005
Ballast type: AC

Test No: 2024806-C005	Voltage(V): 34.990
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2571.0	Power (W): 15.745
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2422.69, Efficiency(%): 94.23% , Luminous Efficacy(lm/W): 153.87
Central intensity(cd): 10426.720, Maximum intensity(cd): 10426.720
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.4
[C90/270]Total=20.4
Field angle(10%Imax): [C0/180]Total=53.0
[C90/270]Total=53.0
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.922%

Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10426.720	0.000	0	0.00%	0.00%
1.0	10361.833	9.947	9.947	0.39%	0.41%
2.0	10156.199	29.449	39.396	1.15%	1.63%
3.0	9821.378	47.780	87.176	1.86%	3.60%
4.0	9383.995	64.287	151.463	2.50%	6.25%
5.0	8803.086	78.240	229.703	3.04%	9.48%
6.0	8147.268	89.079	318.781	3.46%	13.16%
7.0	7416.469	96.604	415.385	3.76%	17.15%
8.0	6677.256	100.866	516.251	3.92%	21.31%
9.0	6000.883	102.749	619.001	4.00%	25.55%
10.0	5345.065	102.677	721.677	3.99%	29.79%
11.0	4728.164	100.652	822.329	3.91%	33.94%
12.0	4162.032	97.183	919.512	3.78%	37.95%
13.0	3713.604	93.464	1012.976	3.64%	41.81%
14.0	3305.995	89.850	1102.826	3.49%	45.52%
15.0	2953.250	85.930	1188.756	3.34%	49.07%
16.0	2616.673	81.615	1270.371	3.17%	52.44%
17.0	2360.198	77.503	1347.874	3.01%	55.64%
18.0	2128.814	74.014	1421.888	2.88%	58.69%
19.0	1927.351	70.569	1492.457	2.74%	61.60%
20.0	1758.513	67.462	1559.919	2.62%	64.39%
21.0	1614.914	64.777	1624.695	2.52%	67.06%
22.0	1491.285	62.420	1687.116	2.43%	69.64%
23.0	1325.769	59.109	1746.225	2.30%	72.08%
24.0	1248.204	56.276	1802.501	2.19%	74.40%
25.0	1178.731	55.183	1857.685	2.15%	76.68%
26.0	1090.508	53.566	1911.25	2.08%	78.89%
27.0	1000.098	51.147	1962.397	1.99%	81.00%
28.0	908.715	48.327	2010.725	1.88%	83.00%
29.0	813.580	45.060	2055.785	1.75%	84.86%
30.0	724.596	41.530	2097.315	1.62%	86.57%
31.0	632.533	37.767	2135.082	1.47%	88.13%
32.0	539.329	33.572	2168.655	1.31%	89.51%
33.0	456.271	29.331	2197.985	1.14%	90.73%
34.0	383.432	25.412	2223.397	0.99%	91.77%
35.0	309.635	21.524	2244.921	0.84%	92.66%
36.0	261.296	18.179	2263.1	0.71%	93.41%
37.0	237.938	16.282	2279.382	0.63%	94.08%

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Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	167.967	13.549	2292.931	0.53%	94.64%
39.0	120.929	9.861	2302.791	0.38%	95.05%
40.0	94.133	7.501	2310.292	0.29%	95.36%
41.0	75.531	6.042	2316.334	0.23%	95.61%
42.0	62.290	5.007	2321.341	0.19%	95.82%
43.0	52.370	4.247	2325.588	0.17%	95.99%
44.0	45.640	3.699	2329.288	0.14%	96.14%
45.0	40.951	3.328	2332.615	0.13%	96.28%
46.0	37.469	3.067	2335.682	0.12%	96.41%
47.0	35.150	2.888	2338.57	0.11%	96.53%
48.0	33.087	2.759	2341.329	0.11%	96.64%
49.0	31.595	2.656	2343.985	0.10%	96.75%
50.0	30.498	2.589	2346.574	0.10%	96.86%
51.0	29.642	2.544	2349.118	0.10%	96.96%
52.0	28.947	2.514	2351.632	0.10%	97.07%
53.0	28.493	2.499	2354.131	0.10%	97.17%
54.0	28.274	2.502	2356.633	0.10%	97.27%
55.0	28.208	2.521	2359.154	0.10%	97.38%
56.0	28.266	2.552	2361.706	0.10%	97.48%
57.0	28.486	2.595	2364.301	0.10%	97.59%
58.0	28.771	2.648	2366.949	0.10%	97.70%
59.0	28.808	2.692	2369.641	0.10%	97.81%
60.0	28.530	2.709	2372.35	0.11%	97.92%
61.0	27.725	2.685	2375.034	0.10%	98.03%
62.0	26.474	2.612	2377.646	0.10%	98.14%
63.0	24.821	2.495	2380.14	0.10%	98.24%
64.0	23.072	2.350	2382.491	0.09%	98.34%
65.0	21.522	2.207	2384.698	0.09%	98.43%
66.0	20.205	2.082	2386.779	0.08%	98.52%
67.0	19.232	1.983	2388.762	0.08%	98.60%
68.0	18.413	1.907	2390.669	0.07%	98.68%
69.0	17.725	1.844	2392.513	0.07%	98.75%
70.0	17.147	1.791	2394.304	0.07%	98.83%
71.0	16.591	1.744	2396.048	0.07%	98.90%
72.0	16.086	1.699	2397.747	0.07%	98.97%
73.0	15.574	1.656	2399.402	0.06%	99.04%
74.0	15.106	1.613	2401.015	0.06%	99.11%
75.0	14.682	1.574	2402.589	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.316	1.539	2404.129	0.06%	99.23%
77.0	13.928	1.506	2405.634	0.06%	99.30%
78.0	13.628	1.475	2407.11	0.06%	99.36%
79.0	13.328	1.448	2408.558	0.06%	99.42%
80.0	13.051	1.422	2409.98	0.06%	99.48%
81.0	12.758	1.396	2411.376	0.05%	99.53%
82.0	12.443	1.367	2412.742	0.05%	99.59%
83.0	12.187	1.339	2414.081	0.05%	99.64%
84.0	11.902	1.312	2415.394	0.05%	99.70%
85.0	11.646	1.285	2416.679	0.05%	99.75%
86.0	11.353	1.257	2417.936	0.05%	99.80%
87.0	11.046	1.226	2419.162	0.05%	99.85%
88.0	10.819	1.198	2420.36	0.05%	99.90%
89.0	10.615	1.175	2421.535	0.05%	99.95%
90.0	10.410	1.153	2422.687	0.04%	100.00%

Zonal flux distribution table

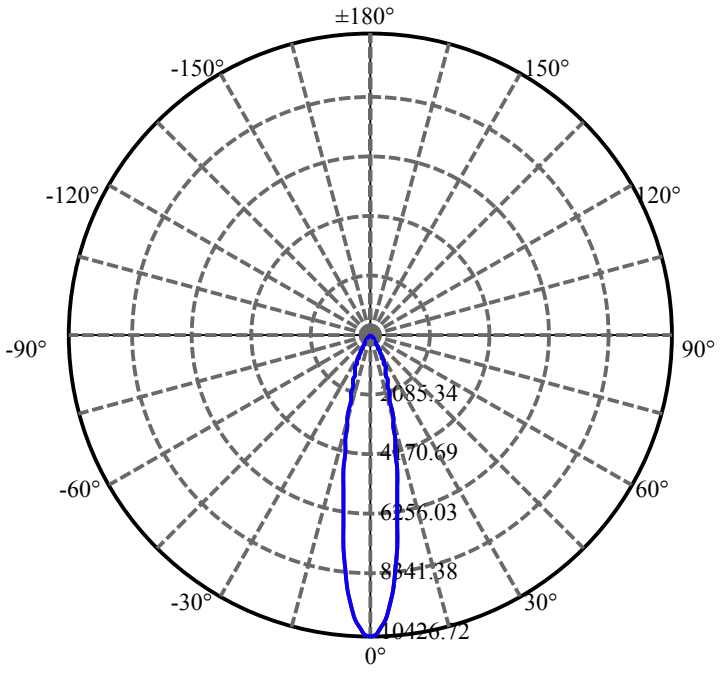
ZONAL LUMEN SUMMARY

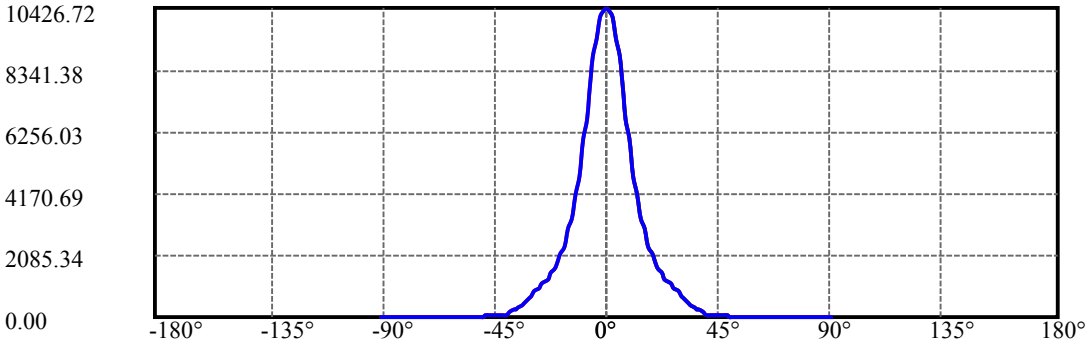
Zone	Lumens	%Lamp	%Fixt
0-30	2097.32	81.58%	86.57%
0-40	2310.29	89.86%	95.36%
0-60	2372.35	92.27%	97.92%
0-90	2421.53	94.19%	99.95%
0-120	2421.53	94.19%	99.95%
0-180	2422.69	94.23%	100.00%
60-90	49.19	1.91%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.53	1938.15	75.39%	80.00%

ZONAL LUMEN SUMMARY

0-10	721.68
10-20	838.24
20-30	537.40
30-40	212.98
40-50	36.28
50-60	25.78
60-70	21.95
70-80	15.68
80-90	11.55
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):

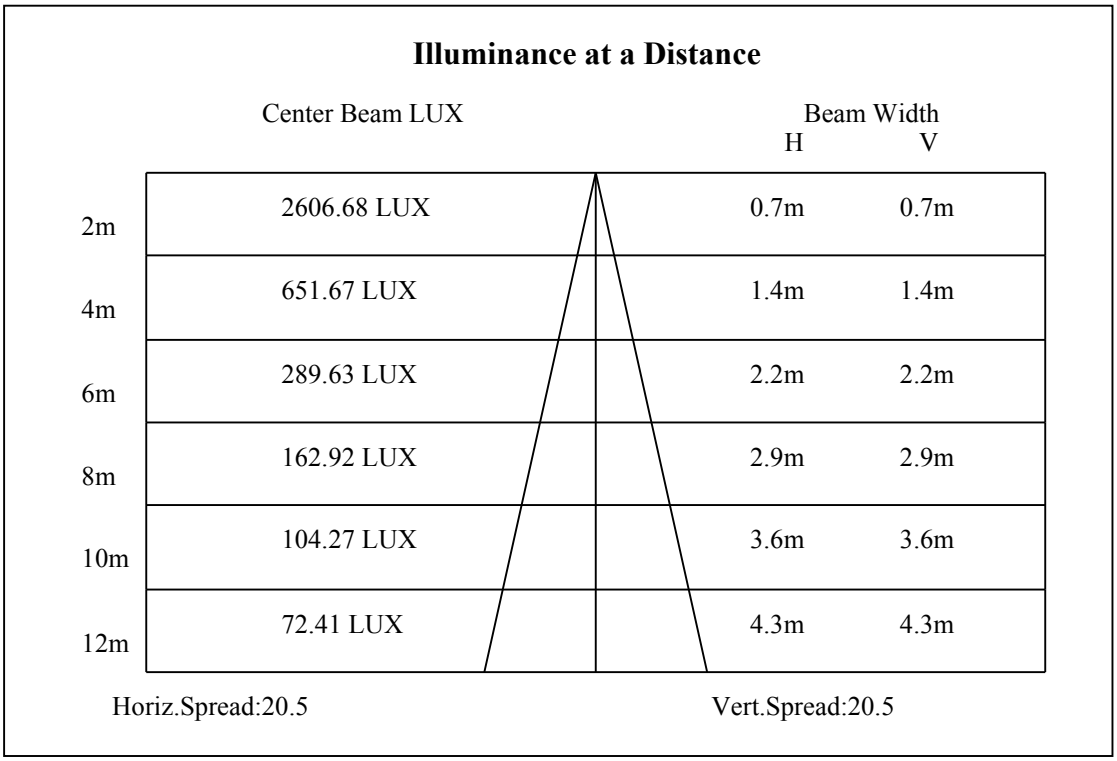
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.5 Right:26.5
:C90/270Left:26.5 Right:26.5

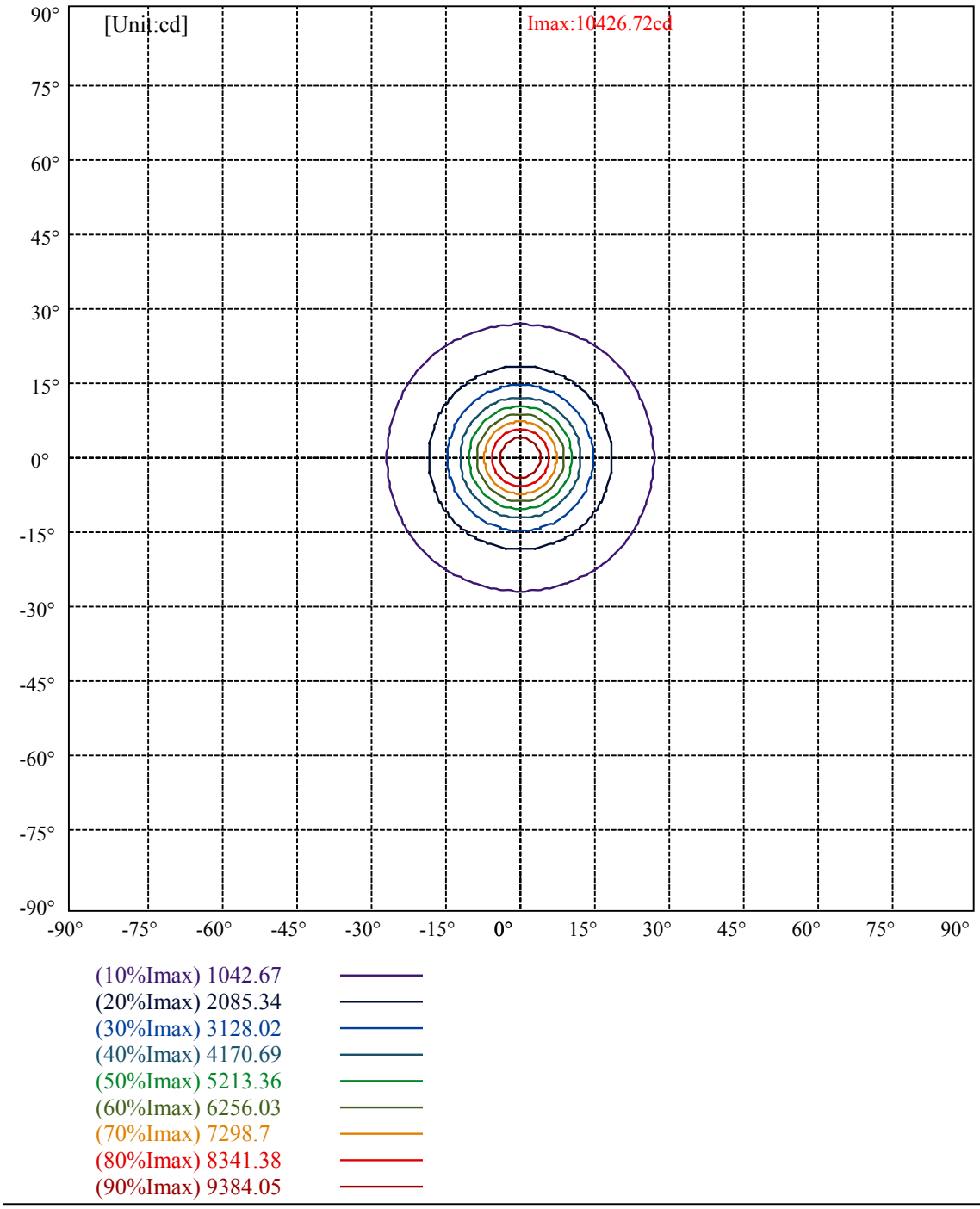
Beam Angle(50%Imax):C0/180Left:10.2 Right:10.2
:C90/270Left:10.2 Right:10.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

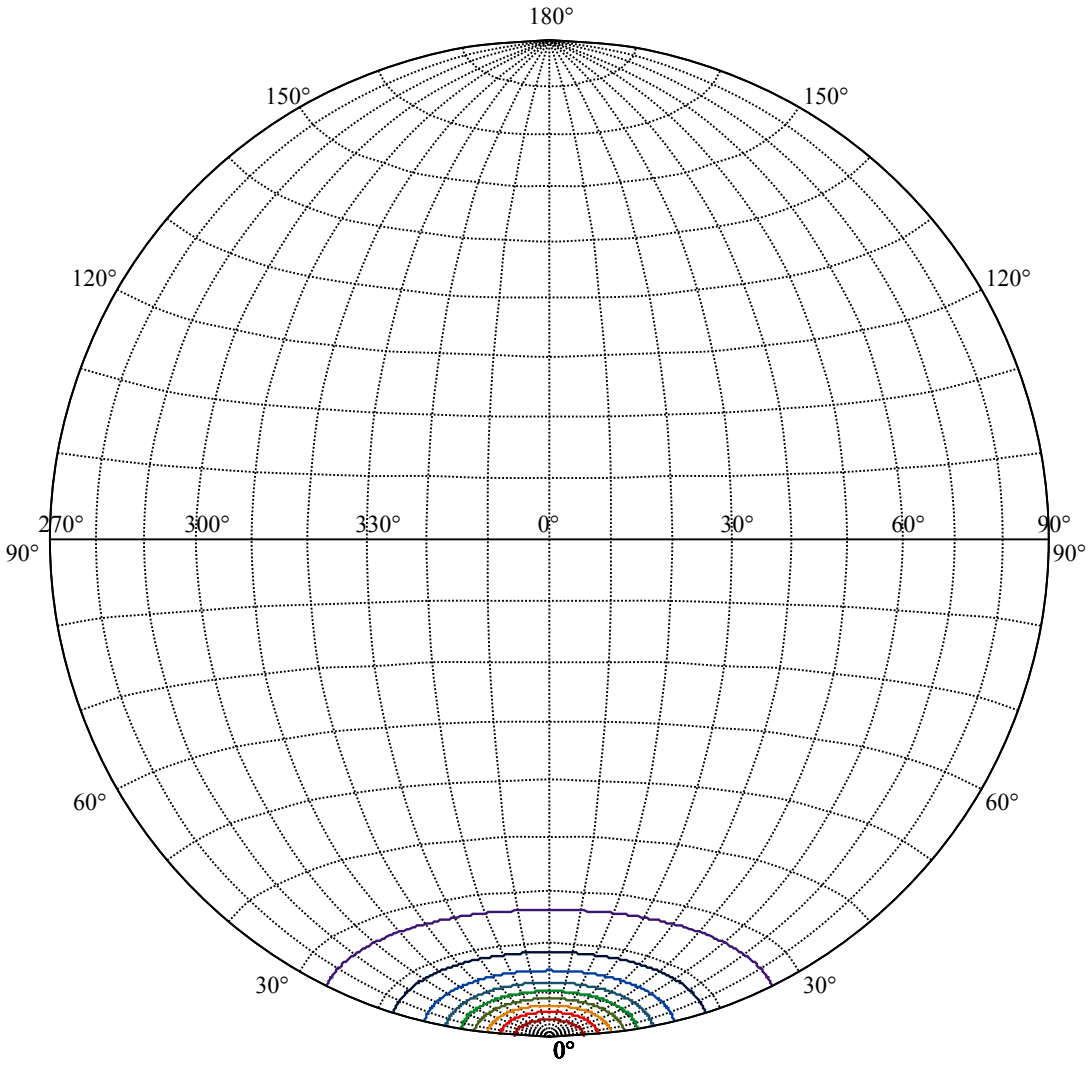


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

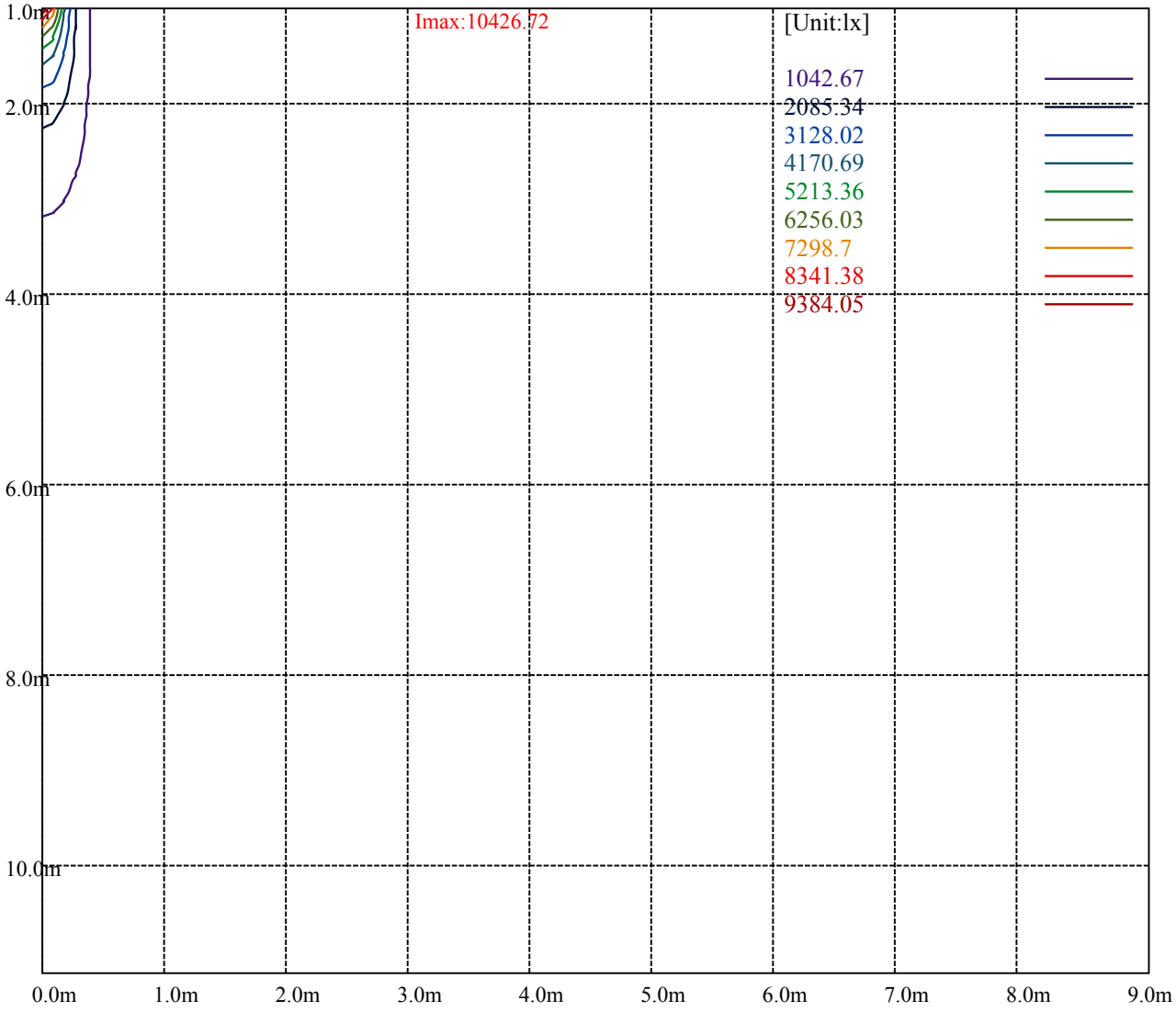
Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/6
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

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Luminance Limitting Curve(no luminous side)

Luminance Table

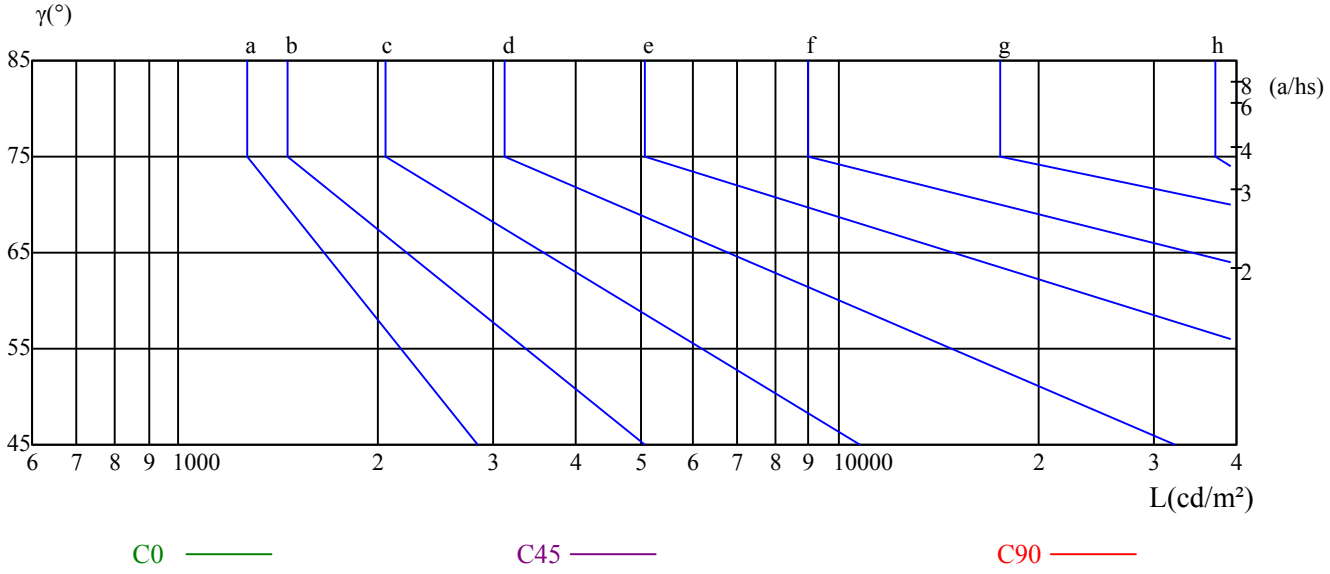
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

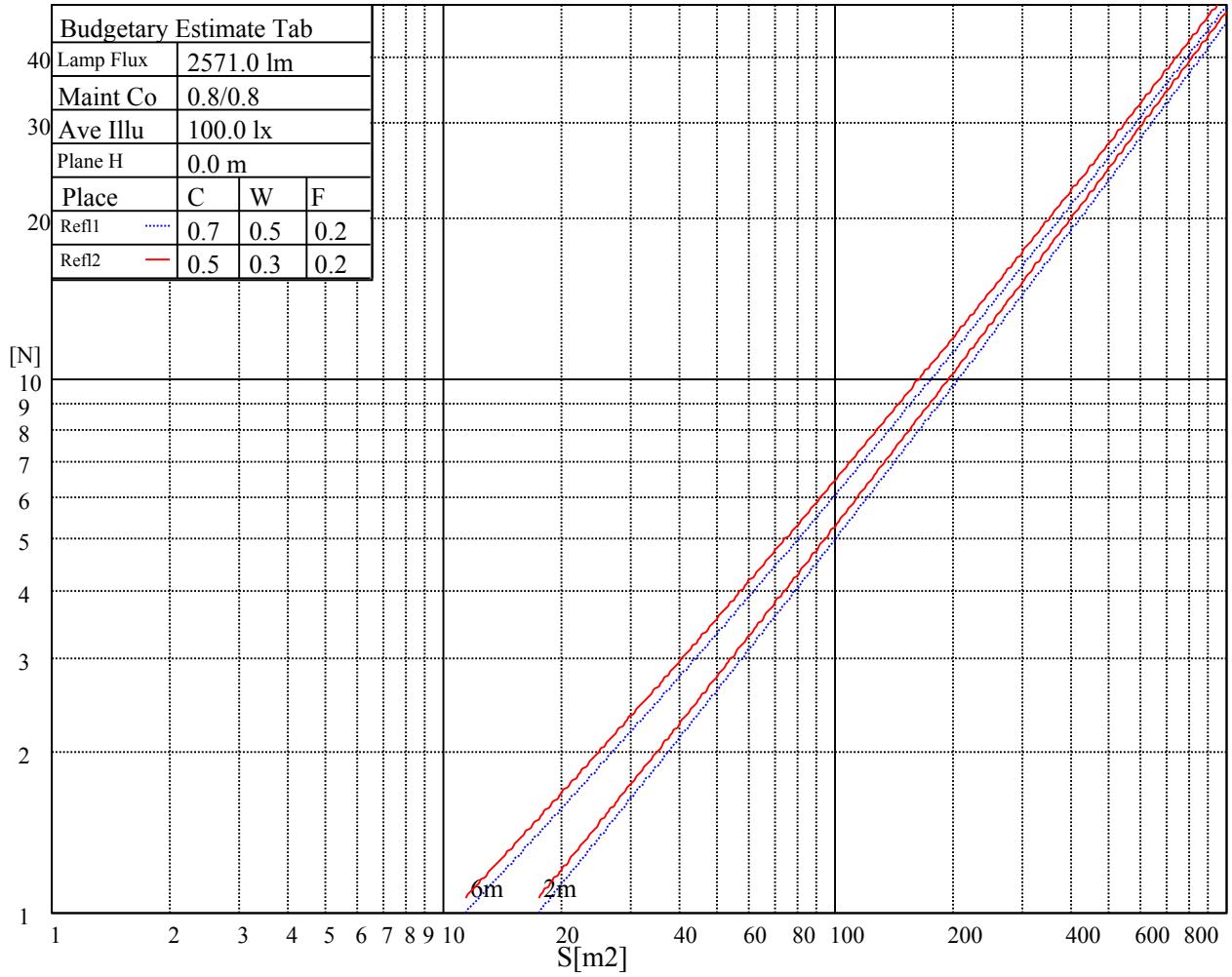
Date: 2024/8/6
Humidity(%): 60.0%

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

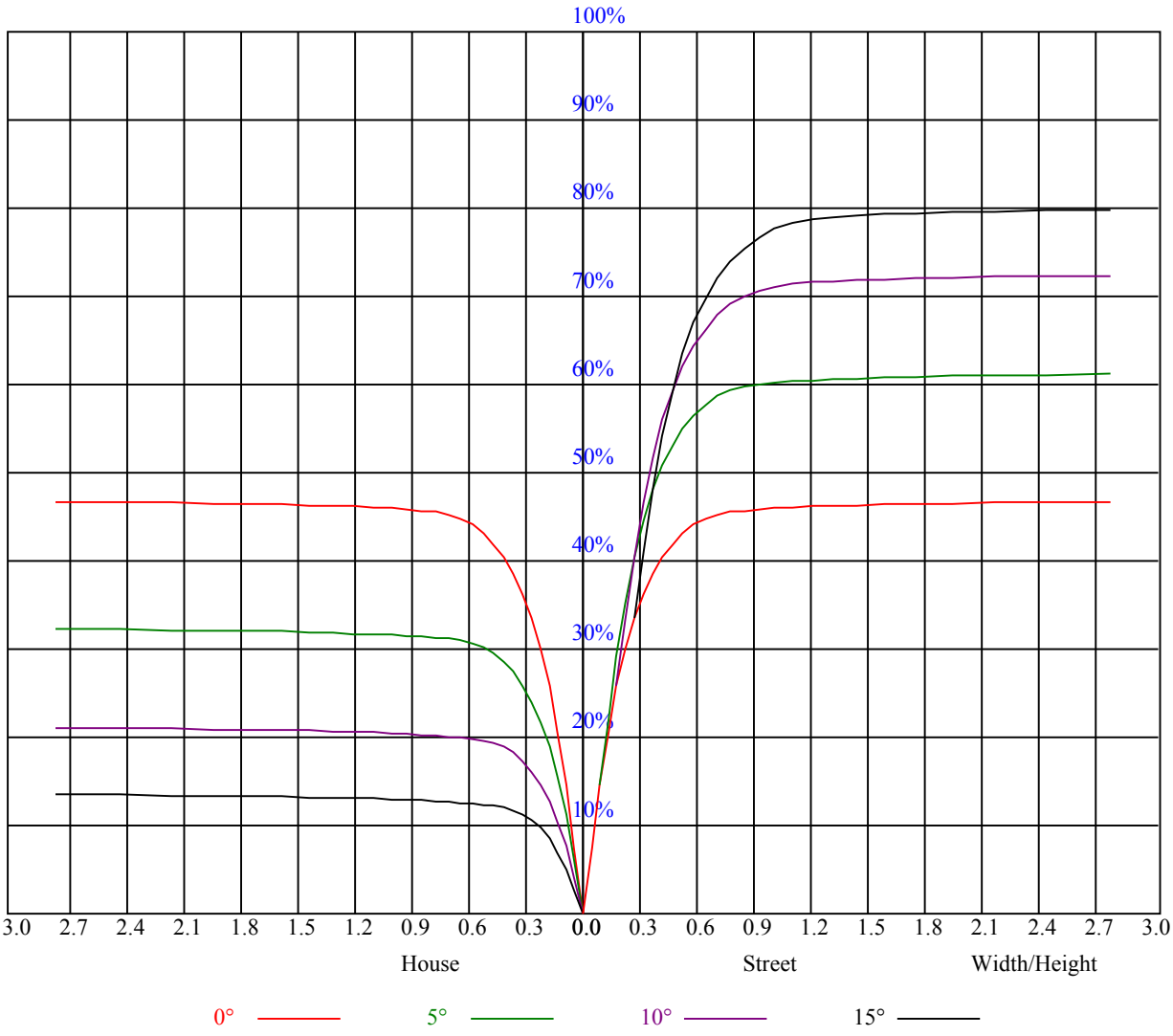


Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

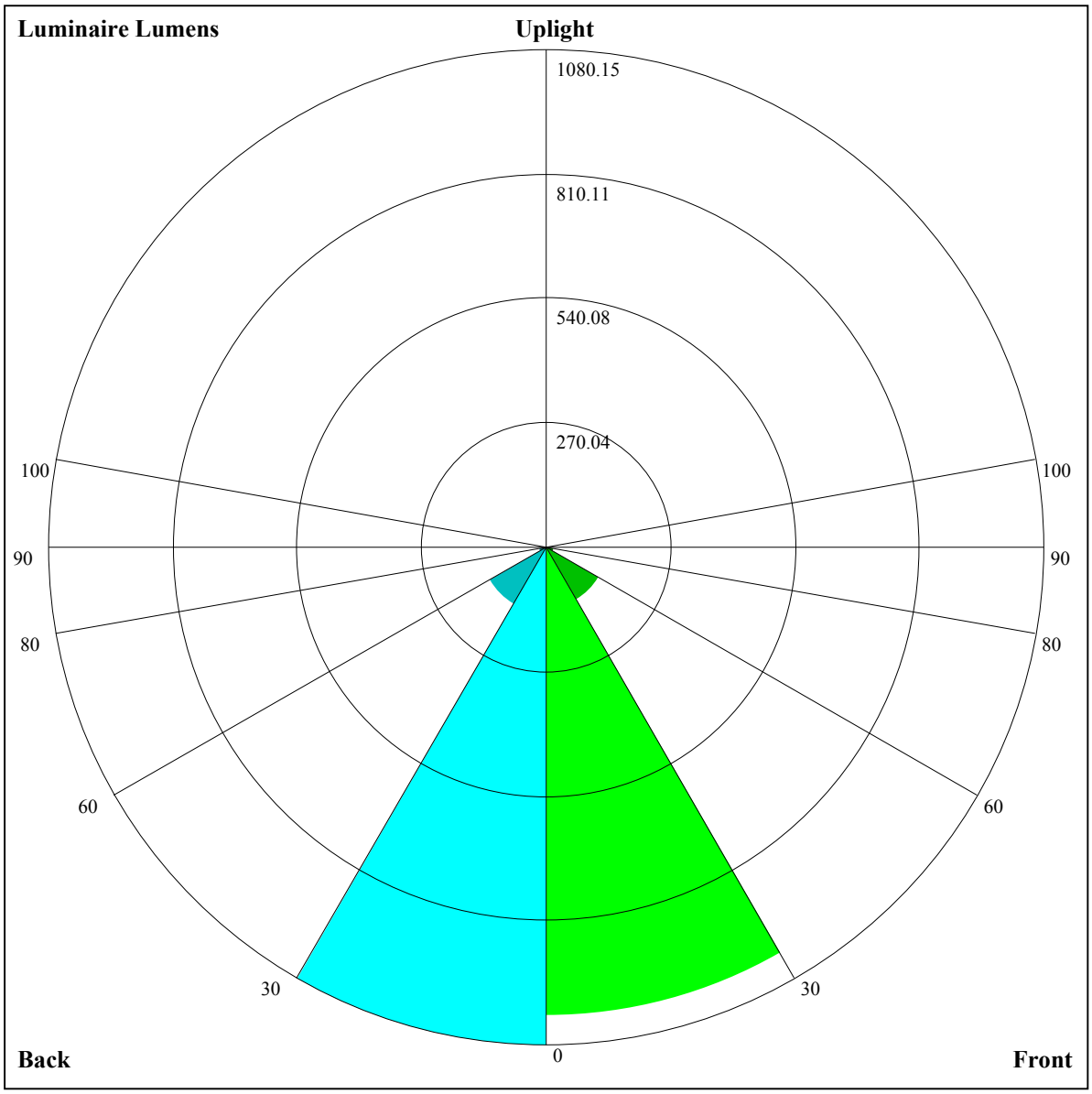
Utilization factor table for indoor luminaire

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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.75
6	0.82	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.72
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.66
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.71	0.68	0.65	0.64
10	0.71	0.66	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/6	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1017.11,FM=131.26,FH=18.66,FVH=6.29
BL=1080.15,BM=144.16,BH=18.77,BVH=6.36
UL=0,UH=0

BUG Rating:B3-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	10404.77	10222.77	9814.28	9364.83	8801.84	8045.15	7406.67	6741.85	5936.58
45.0	10447.50	10453.35	10335.13	10057.15	9670.90	9157.07	8531.47	7674.11	6981.21
90.0	10467.98	10421.75	10178.29	9875.15	9412.23	8824.08	7990.14	7275.58	6413.54
135.0	10386.63	10486.12	10452.76	10294.75	10007.41	9487.14	8922.40	8296.21	7448.22
180.0	10404.77	10476.17	10410.63	10228.04	9913.77	9478.95	8793.06	8134.69	7433.00
225.0	10447.50	10308.80	10057.15	9568.49	9057.00	8481.72	7830.95	6988.23	6298.25
270.0	10467.98	10425.84	10273.68	9931.33	9507.62	9007.26	8417.93	7609.15	6943.17
315.0	10386.63	10099.87	9727.67	9251.30	8701.18	7943.32	7285.52	6611.93	5964.09
360.0	10404.77	10222.77	9814.28	9364.83	8801.84	8045.15	7406.67	6741.85	5936.58

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5339.07	4798.90	4286.83	3729.11	3342.86	3010.46	2714.33	2388.95	2175.93
45.0	6298.84	5633.43	4891.37	4358.23	3895.32	3377.39	3027.43	2651.71	2391.87
90.0	5743.46	5114.93	4423.77	3941.55	3524.28	3070.73	2762.91	2482.58	2243.81
135.0	6740.68	6085.81	5451.43	4735.70	4235.92	3782.37	3384.41	2937.30	2634.16
180.0	6747.70	5927.80	5297.52	4601.10	4116.53	3682.88	3214.11	2885.80	2594.36
225.0	5652.16	5043.53	4375.20	3909.36	3497.95	3147.40	2768.76	2508.33	2230.35
270.0	6126.78	5489.47	4913.02	4258.16	3810.46	3418.36	3076.00	2714.92	2466.20
315.0	5358.38	4666.64	4186.17	3763.06	3285.51	2958.37	2678.05	2363.78	2144.91
360.0	5339.07	4798.90	4286.83	3729.11	3342.86	3010.46	2714.33	2388.95	2175.93

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1945.93	1794.94	1648.05	1501.16	1391.72	1158.51	1158.51	1096.77	1014.25
45.0	2165.98	1937.15	1777.97	1636.35	1523.98	1417.47	1302.77	1214.40	1133.05
90.0	1996.26	1823.03	1673.22	1546.22	1413.96	1154.88	1154.88	1110.64	1028.18
135.0	2375.49	2097.50	1908.48	1715.35	1586.02	1470.14	1366.56	1247.17	1162.32
180.0	2343.88	2074.10	1890.92	1731.74	1592.46	1448.49	1352.51	1262.39	1162.90
225.0	2048.35	1885.65	1705.99	1586.02	1481.26	1358.37	1154.53	1154.53	1091.15
270.0	2246.15	2052.44	1847.61	1705.40	1576.65	1439.71	1337.30	1246.59	1135.98
315.0	1908.48	1753.98	1615.86	1497.06	1364.22	1158.57	1158.57	1097.36	996.23
360.0	1945.93	1794.94	1648.05	1501.16	1391.72	1158.51	1158.51	1096.77	1014.25

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	930.27	822.24	738.14	653.52	571.30	471.52	399.24	332.99	272.77
45.0	1051.12	942.86	856.24	747.98	661.95	578.26	476.43	404.45	322.52
90.0	918.74	829.67	743.47	656.86	552.04	472.04	399.53	333.58	259.78
135.0	1069.26	986.75	883.75	802.40	718.71	613.96	534.37	455.36	368.75
180.0	1084.48	1003.72	903.06	818.79	707.60	623.91	539.64	463.56	376.94
225.0	981.71	892.82	804.33	713.16	622.50	513.48	435.52	348.50	287.11
270.0	1049.37	958.07	852.73	762.02	668.39	582.36	478.19	403.86	335.39
315.0	915.82	833.59	726.91	642.05	557.78	459.11	387.24	325.15	253.81
360.0	930.27	822.24	738.14	653.52	571.30	471.52	399.24	332.99	272.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	207.40	164.39	121.26	95.39	77.02	61.57	53.26	47.17	42.90
45.0	307.89	307.89	166.56	130.33	96.74	77.43	63.91	54.43	46.17
90.0	209.98	168.31	133.67	99.61	80.88	63.56	54.07	47.29	41.55
135.0	307.89	307.89	187.74	149.06	118.04	94.98	73.74	61.80	53.08
180.0	314.91	300.28	300.28	154.79	122.37	97.67	78.71	61.68	52.32
225.0	231.63	184.76	137.41	107.39	79.82	64.43	53.61	45.94	39.56
270.0	306.13	306.13	165.74	131.56	97.67	77.54	63.44	51.44	44.83
315.0	204.54	163.86	131.09	99.31	80.53	67.07	57.59	49.22	44.71
360.0	207.40	164.39	121.26	95.39	77.02	61.57	53.26	47.17	42.90

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	38.92	36.46	34.70	33.30	32.01	31.31	30.84	30.43	30.43
45.0	41.49	38.10	35.41	32.89	31.19	29.61	28.73	28.03	27.39
90.0	38.27	35.70	33.83	31.89	30.72	29.67	28.85	28.09	27.68
135.0	46.94	41.67	38.62	36.40	34.24	32.89	31.89	30.96	30.37
180.0	45.53	40.15	37.16	34.41	32.89	31.72	30.78	29.85	29.26
225.0	35.99	33.30	31.31	29.38	28.27	27.39	26.51	25.93	25.57
270.0	39.03	35.76	33.30	31.25	29.38	28.27	27.39	26.74	26.16
315.0	41.43	38.62	36.87	35.17	34.06	33.12	32.13	31.54	31.08
360.0	38.92	36.46	34.70	33.30	32.01	31.31	30.84	30.43	30.43

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.49	30.84	31.31	31.66	32.01	31.60	30.67	28.73	26.98
45.0	27.10	26.98	26.92	27.21	27.51	27.86	28.27	28.15	27.45
90.0	27.51	27.45	27.62	27.92	28.62	28.91	28.79	27.97	26.69
135.0	29.96	29.73	29.61	29.79	30.08	30.14	30.08	29.67	28.50
180.0	28.91	28.62	28.44	28.56	28.68	28.79	28.73	28.32	27.33
225.0	25.34	25.28	25.46	25.81	26.10	26.34	26.04	25.46	24.35
270.0	25.98	25.93	25.93	26.22	26.63	26.98	27.04	26.51	25.22
315.0	30.90	30.84	30.84	30.72	30.55	29.85	28.62	26.98	25.28
360.0	30.49	30.84	31.31	31.66	32.01	31.60	30.67	28.73	26.98

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	25.11	23.58	22.30	20.95	20.13	19.43	18.55	17.91	17.21
45.0	26.10	24.17	22.47	20.78	19.49	18.55	17.85	17.15	16.62
90.0	24.87	22.53	20.95	19.66	18.73	17.85	17.21	16.68	16.21
135.0	26.86	25.16	23.35	21.71	20.42	19.37	18.55	17.97	17.26
180.0	25.98	24.52	22.59	21.42	20.42	19.61	18.84	18.26	17.73
225.0	22.82	20.95	19.66	18.55	17.79	17.03	16.50	16.04	15.51
270.0	23.82	22.06	20.66	19.20	18.26	17.62	17.03	16.44	16.04
315.0	23.00	21.59	20.19	19.37	18.61	17.85	17.26	16.74	16.15
360.0	25.11	23.58	22.30	20.95	20.13	19.43	18.55	17.91	17.21

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.68	16.15	15.57	15.10	14.75	14.46	14.16	13.87	13.58
45.0	16.09	15.63	15.04	14.63	14.28	13.75	13.40	13.17	12.87
90.0	15.57	15.04	14.57	14.16	13.81	13.40	13.17	12.87	12.58
135.0	16.68	16.15	15.63	15.04	14.63	14.16	13.87	13.46	13.23
180.0	17.32	16.74	16.33	15.92	15.45	15.10	14.69	14.34	14.05
225.0	15.16	14.69	14.40	14.10	13.81	13.40	13.17	12.93	12.64
270.0	15.63	15.16	14.75	14.34	13.99	13.69	13.40	13.11	12.87
315.0	15.57	15.04	14.57	14.16	13.81	13.46	13.17	12.87	12.58
360.0	16.68	16.15	15.57	15.10	14.75	14.46	14.16	13.87	13.58

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.23	12.93	12.70	12.47	12.17	11.82	11.41	11.12	10.71
45.0	12.64	12.29	12.00	11.76	11.47	11.24	10.94	10.71	10.59
90.0	12.29	12.00	11.76	11.47	11.29	11.00	10.77	10.53	10.36
135.0	12.93	12.58	12.35	11.94	11.70	11.41	11.12	10.83	10.65
180.0	13.69	13.40	13.11	12.82	12.58	12.23	11.82	11.59	11.47
225.0	12.35	12.06	11.82	11.53	11.29	11.00	10.77	10.59	10.36
270.0	12.58	12.29	12.00	11.76	11.41	11.18	10.83	10.65	10.42
315.0	12.35	12.00	11.76	11.47	11.24	10.94	10.71	10.53	10.36
360.0	13.23	12.93	12.70	12.47	12.17	11.82	11.41	11.12	10.71

Intensity data(cd)

C/γ(°)	90.0
0.0	10.48
45.0	10.42
90.0	10.36
135.0	10.42
180.0	10.53
225.0	10.36
270.0	10.36
315.0	10.36
360.0	10.48