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NT

Client:
LumCAT: 3-2833-L
Luminaire: 92.70.411.00
Report No: 2024327-B014
Ballast type: AC

Test No: 2024327-C014	Voltage(V): 34.120
LampCAT: LUMILEDS LUXEON 1208	Current(A): 0.576
Lamp flux(lm): 2888.0	Power (W): 19.653
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2447.25, Efficiency(%): 84.74% , Luminous Efficacy(lm/W): 124.52
Central intensity(cd): 8554.293, Maximum intensity(cd): 8554.293
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.0
[C90/270]Total=24.0
Field angle(10%Imax): [C0/180]Total=59.2
[C90/270]Total=59.2
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
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(%): 84.74%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.050%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8554.292	0.000	0	0.00%	0.00%
1.0	8521.739	8.171	8.171	0.28%	0.33%
2.0	8432.858	24.335	32.505	0.84%	1.33%
3.0	8272.799	39.954	72.46	1.38%	2.96%
4.0	8006.961	54.494	126.953	1.89%	5.19%
5.0	7629.271	67.266	194.22	2.33%	7.94%
6.0	7174.332	77.797	272.017	2.69%	11.12%
7.0	6692.618	86.072	358.088	2.98%	14.63%
8.0	6194.373	92.230	450.318	3.19%	18.40%
9.0	5681.642	96.249	546.567	3.33%	22.33%
10.0	5199.197	98.468	645.034	3.41%	26.36%
11.0	4722.751	99.141	744.175	3.43%	30.41%
12.0	4276.590	98.376	842.551	3.41%	34.43%
13.0	3875.857	96.749	939.3	3.35%	38.38%
14.0	3500.509	94.417	1033.717	3.27%	42.24%
15.0	3182.878	91.753	1125.469	3.18%	45.99%
16.0	2886.022	88.926	1214.396	3.08%	49.62%
17.0	2613.381	85.640	1300.036	2.97%	53.12%
18.0	2379.583	82.323	1382.359	2.85%	56.49%
19.0	2175.925	79.257	1461.616	2.74%	59.72%
20.0	1980.753	76.079	1537.694	2.63%	62.83%
21.0	1818.499	72.953	1610.648	2.53%	65.81%
22.0	1664.804	69.998	1680.646	2.42%	68.67%
23.0	1482.112	66.031	1746.677	2.29%	71.37%
24.0	1319.595	61.255	1807.932	2.12%	73.88%
25.0	1231.160	57.999	1865.931	2.01%	76.25%
26.0	1144.949	56.088	1922.019	1.94%	78.54%
27.0	1053.588	53.788	1975.807	1.86%	80.74%
28.0	976.192	51.390	2027.197	1.78%	82.84%
29.0	904.553	49.206	2076.402	1.70%	84.85%
30.0	817.515	46.496	2122.898	1.61%	86.75%
31.0	709.176	42.486	2165.383	1.47%	88.48%
32.0	602.687	37.583	2202.967	1.30%	90.02%
33.0	493.579	32.296	2235.263	1.12%	91.34%
34.0	381.442	26.481	2261.744	0.92%	92.42%
35.0	288.062	20.792	2282.536	0.72%	93.27%
36.0	233.358	16.602	2299.138	0.57%	93.95%
37.0	161.347	12.873	2312.011	0.45%	94.47%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	96.540	8.608	2320.619	0.30%	94.83%
39.0	82.941	6.126	2326.745	0.21%	95.08%
40.0	75.531	5.527	2332.272	0.19%	95.30%
41.0	69.108	5.151	2337.423	0.18%	95.51%
42.0	63.446	4.816	2342.239	0.17%	95.71%
43.0	58.245	4.508	2346.747	0.16%	95.89%
44.0	53.921	4.233	2350.98	0.15%	96.07%
45.0	49.686	3.982	2354.962	0.14%	96.23%
46.0	46.167	3.749	2358.71	0.13%	96.38%
47.0	42.934	3.544	2362.254	0.12%	96.53%
48.0	40.337	3.366	2365.62	0.12%	96.66%
49.0	38.040	3.219	2368.839	0.11%	96.80%
50.0	35.984	3.086	2371.925	0.11%	96.92%
51.0	34.382	2.977	2374.902	0.10%	97.04%
52.0	33.029	2.893	2377.795	0.10%	97.16%
53.0	31.939	2.826	2380.621	0.10%	97.28%
54.0	31.134	2.780	2383.401	0.10%	97.39%
55.0	30.483	2.750	2386.151	0.10%	97.50%
56.0	29.956	2.731	2388.882	0.09%	97.62%
57.0	29.444	2.716	2391.598	0.09%	97.73%
58.0	28.749	2.691	2394.289	0.09%	97.84%
59.0	27.864	2.647	2396.936	0.09%	97.94%
60.0	26.752	2.580	2399.516	0.09%	98.05%
61.0	25.494	2.493	2402.01	0.09%	98.15%
62.0	24.258	2.397	2404.407	0.08%	98.25%
63.0	23.021	2.299	2406.706	0.08%	98.34%
64.0	21.719	2.195	2408.902	0.08%	98.43%
65.0	20.578	2.093	2410.995	0.07%	98.52%
66.0	19.393	1.994	2412.989	0.07%	98.60%
67.0	18.347	1.898	2414.887	0.07%	98.68%
68.0	17.484	1.815	2416.702	0.06%	98.75%
69.0	16.708	1.744	2418.446	0.06%	98.82%
70.0	16.064	1.683	2420.13	0.06%	98.89%
71.0	15.567	1.635	2421.764	0.06%	98.96%
72.0	15.077	1.593	2423.358	0.06%	99.02%
73.0	14.696	1.557	2424.915	0.05%	99.09%
74.0	14.331	1.526	2426.441	0.05%	99.15%
75.0	13.980	1.496	2427.937	0.05%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.665	1.467	2429.404	0.05%	99.27%
77.0	13.358	1.441	2430.845	0.05%	99.33%
78.0	13.058	1.414	2432.259	0.05%	99.39%
79.0	12.758	1.387	2433.646	0.05%	99.44%
80.0	12.458	1.359	2435.005	0.05%	99.50%
81.0	12.165	1.332	2436.337	0.05%	99.55%
82.0	11.880	1.304	2437.641	0.05%	99.61%
83.0	11.609	1.277	2438.918	0.04%	99.66%
84.0	11.375	1.252	2440.17	0.04%	99.71%
85.0	11.163	1.230	2441.4	0.04%	99.76%
86.0	10.929	1.208	2442.608	0.04%	99.81%
87.0	10.732	1.185	2443.793	0.04%	99.86%
88.0	10.556	1.166	2444.959	0.04%	99.91%
89.0	10.395	1.148	2446.108	0.04%	99.95%
90.0	10.380	1.139	2447.247	0.04%	100.00%

Zonal flux distribution table

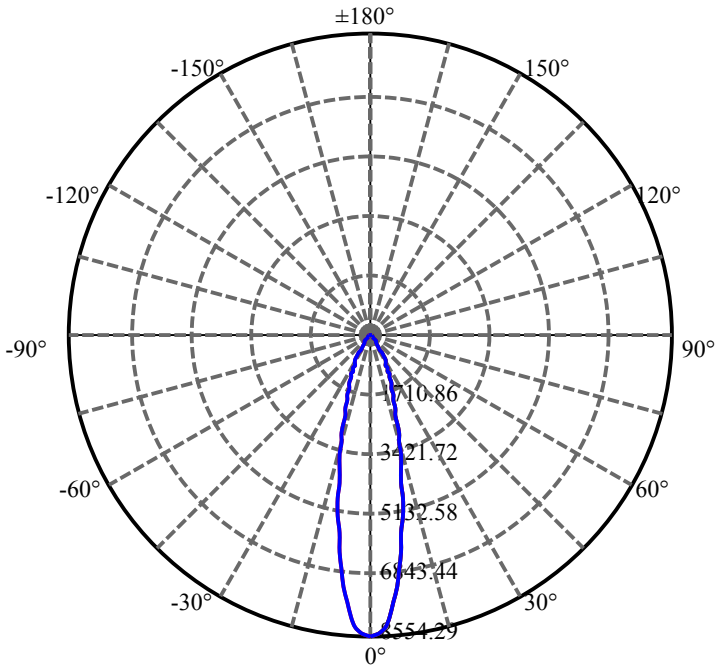
ZONAL LUMEN SUMMARY

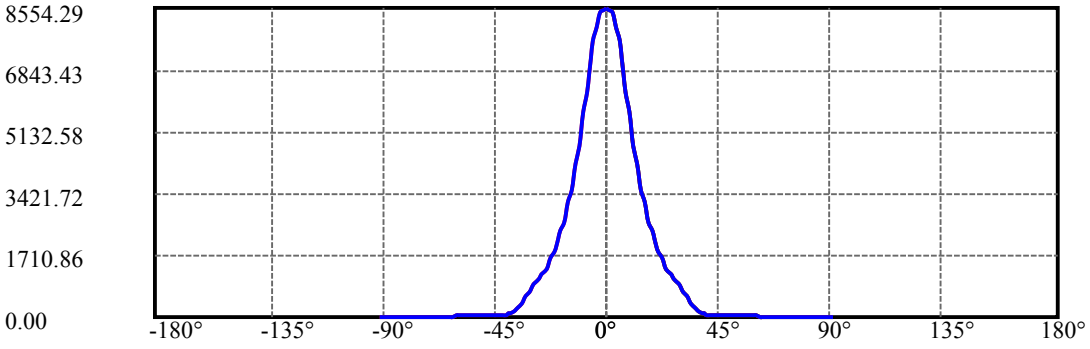
Zone	Lumens	%Lamp	%Fixt
0-30	2122.90	73.51%	86.75%
0-40	2332.27	80.76%	95.30%
0-60	2399.52	83.09%	98.05%
0-90	2446.11	84.70%	99.95%
0-120	2446.11	84.70%	99.95%
0-180	2447.25	84.74%	100.00%
60-90	46.59	1.61%	1.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.67	1957.80	67.79%	80.00%

ZONAL LUMEN SUMMARY

0-10	645.03
10-20	892.66
20-30	585.20
30-40	209.37
40-50	39.65
50-60	27.59
60-70	20.61
70-80	14.88
80-90	11.10
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):

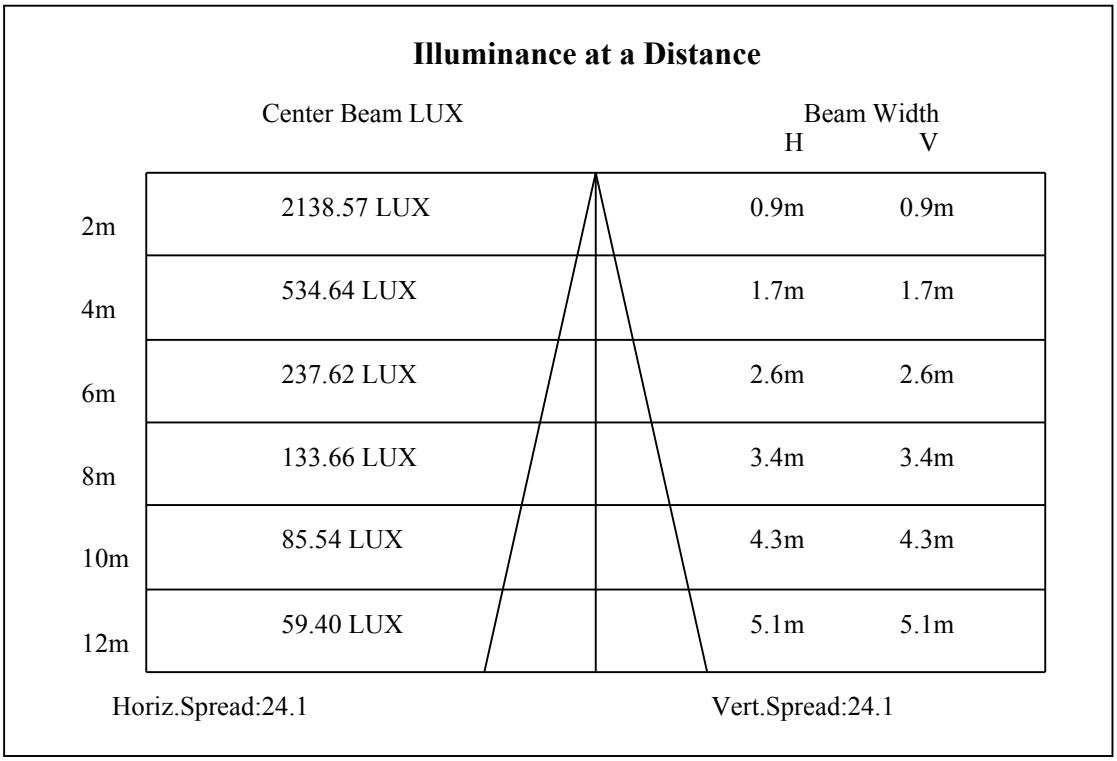
C0/C180:

C90/C270:

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

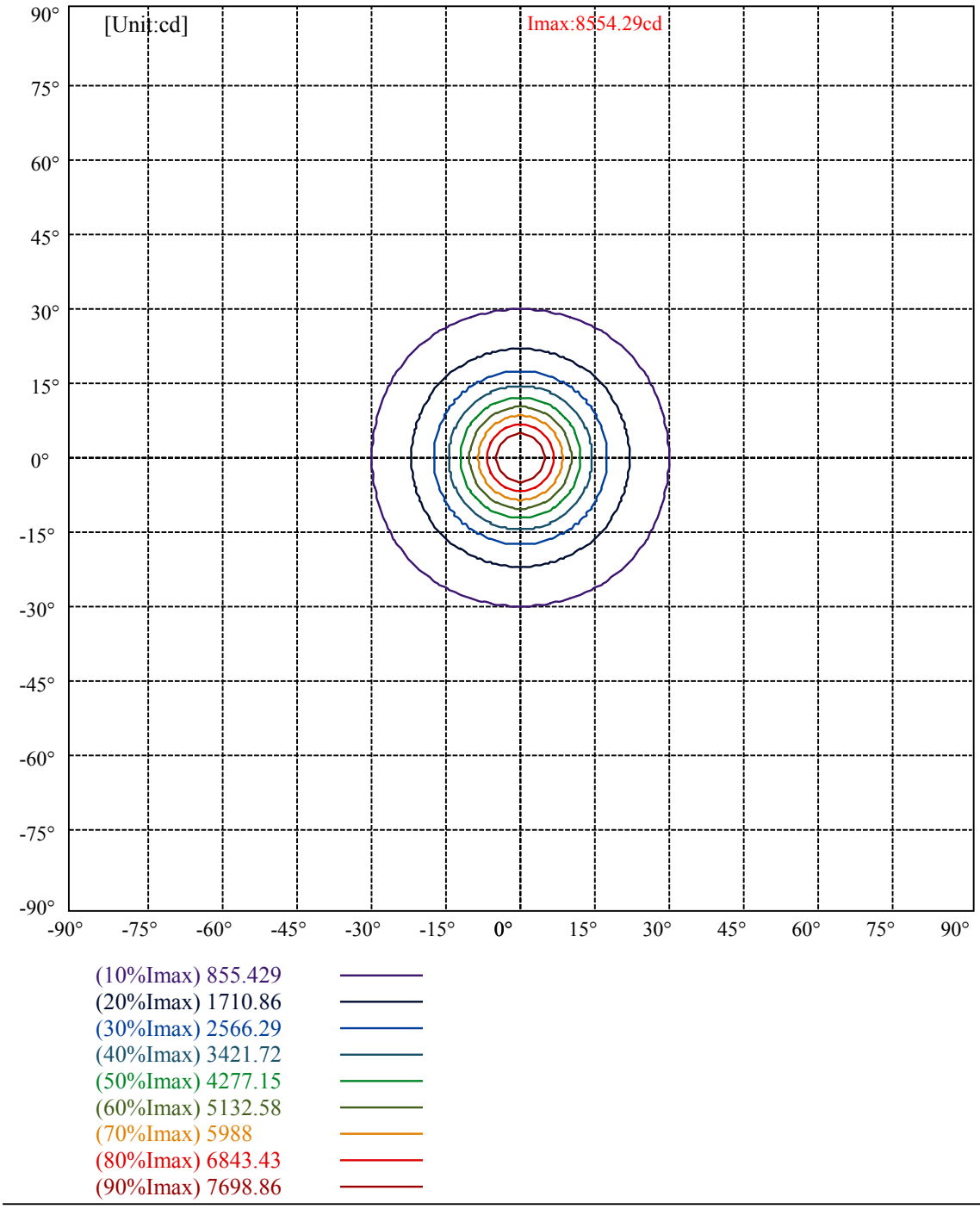
Beam Angle(50%Imax):C0/180Left:12.0 Right:12.0
:C90/270Left:12.0 Right:12.0

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

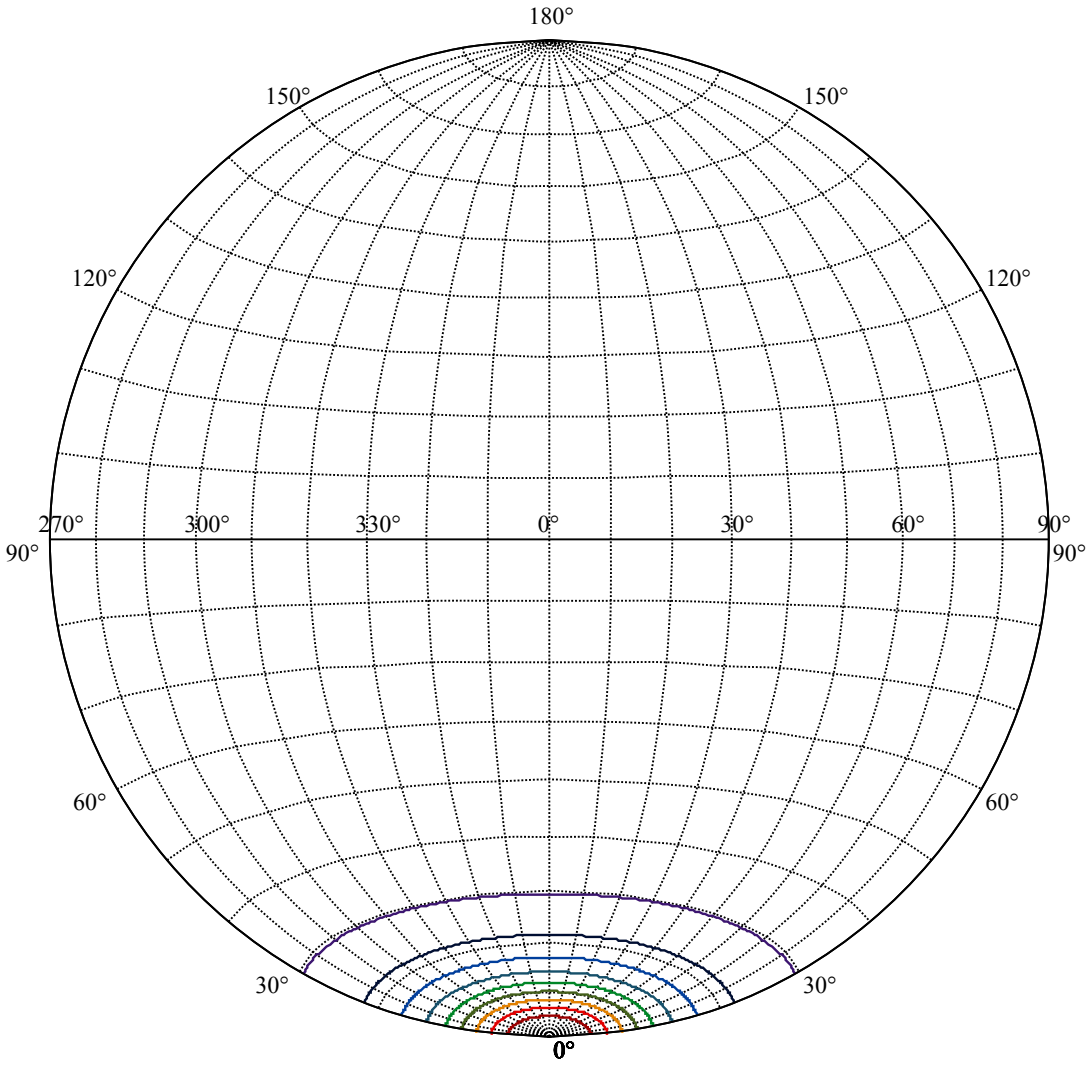


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8554.29

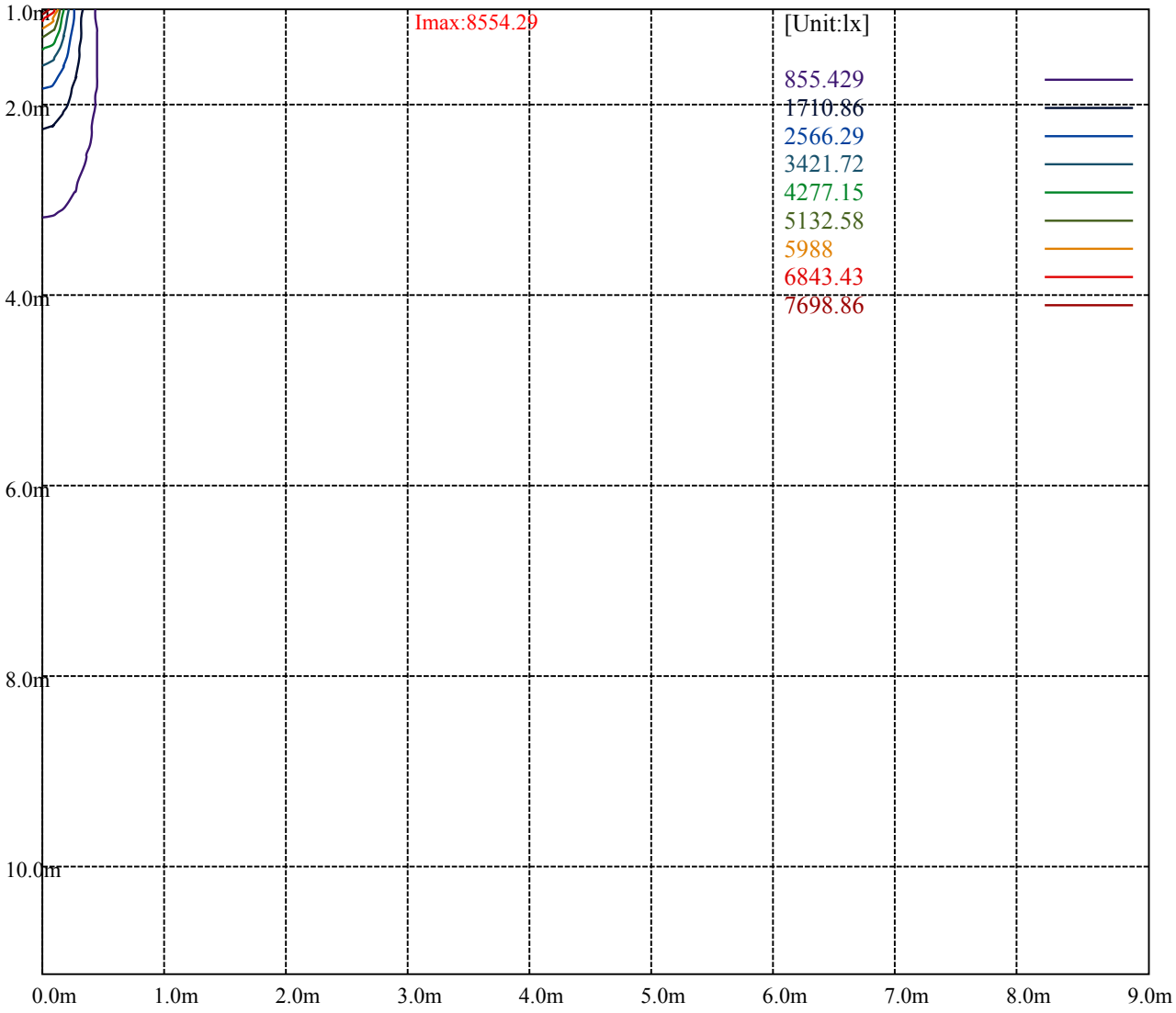
(10%Imax) 855.429
(20%Imax) 1710.86
(30%Imax) 2566.29
(40%Imax) 3421.72
(50%Imax) 4277.15
(60%Imax) 5132.58
(70%Imax) 5988
(80%Imax) 6843.43
(90%Imax) 7698.86

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/27
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

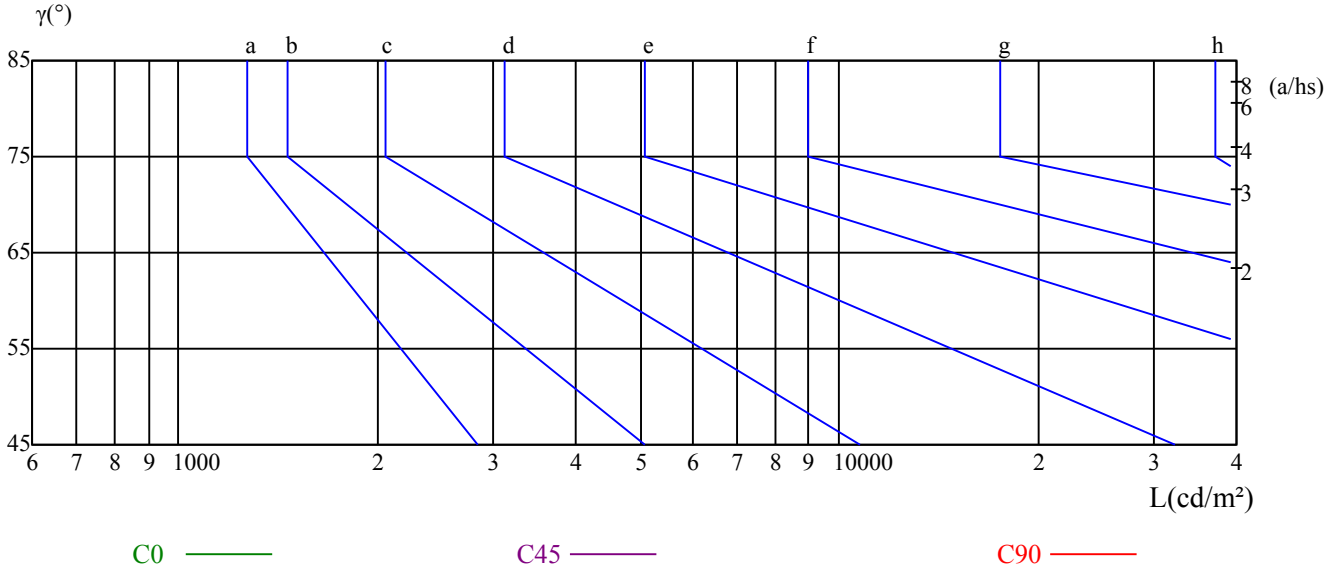
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

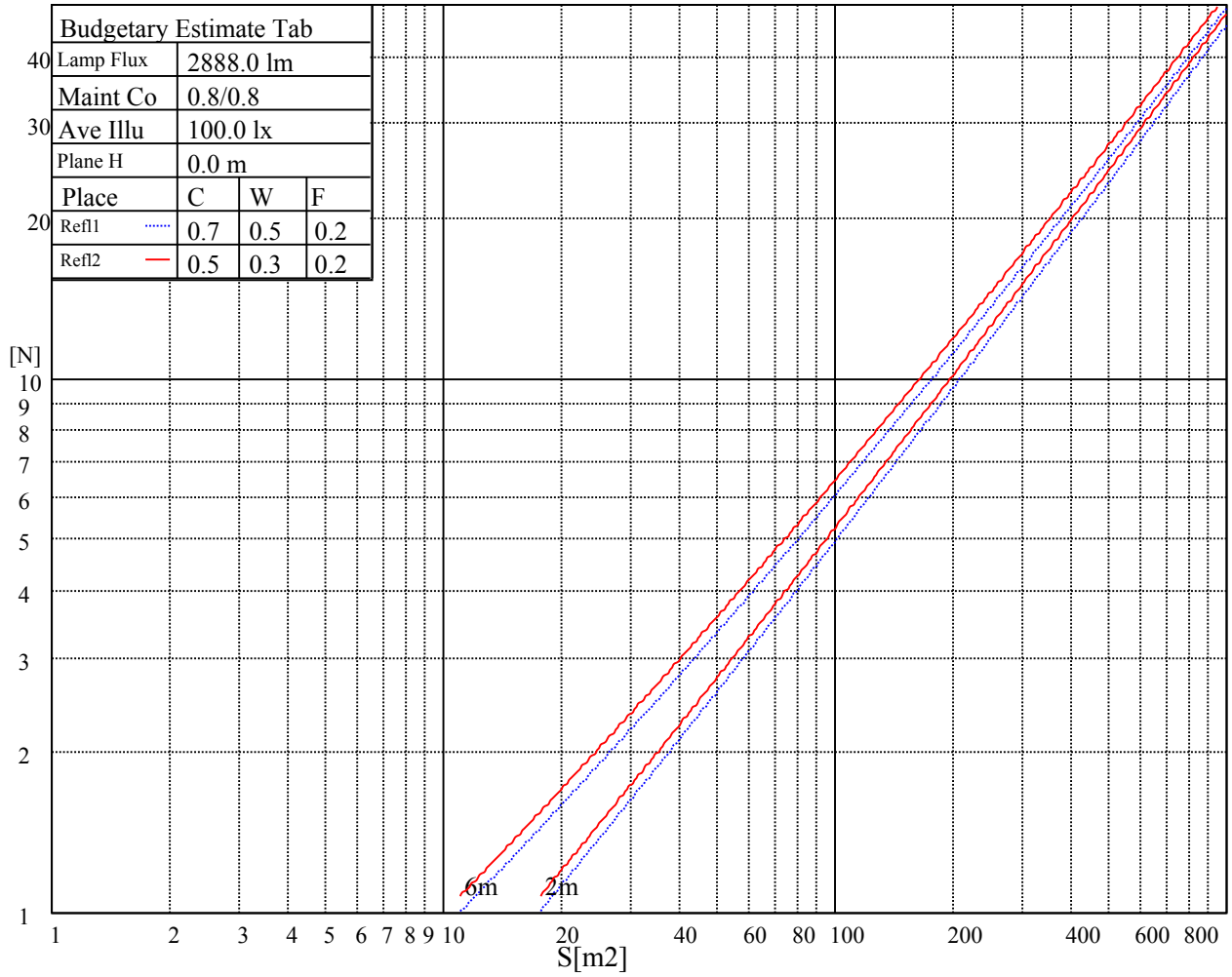
Date: 2024/3/27
Humidity(%): 60.0%

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

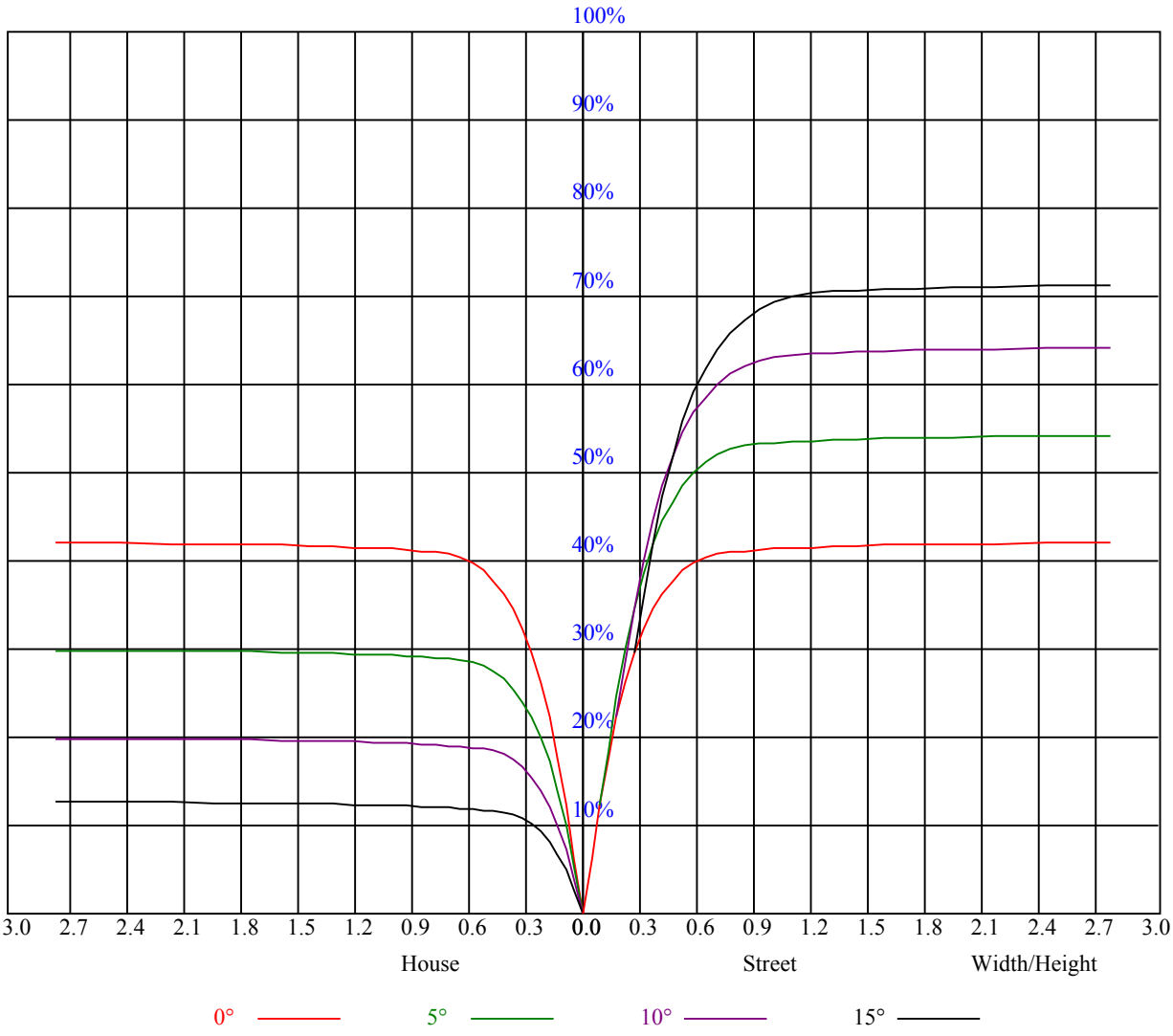


Equipment: GMS1980 Date: 2024/3/27 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

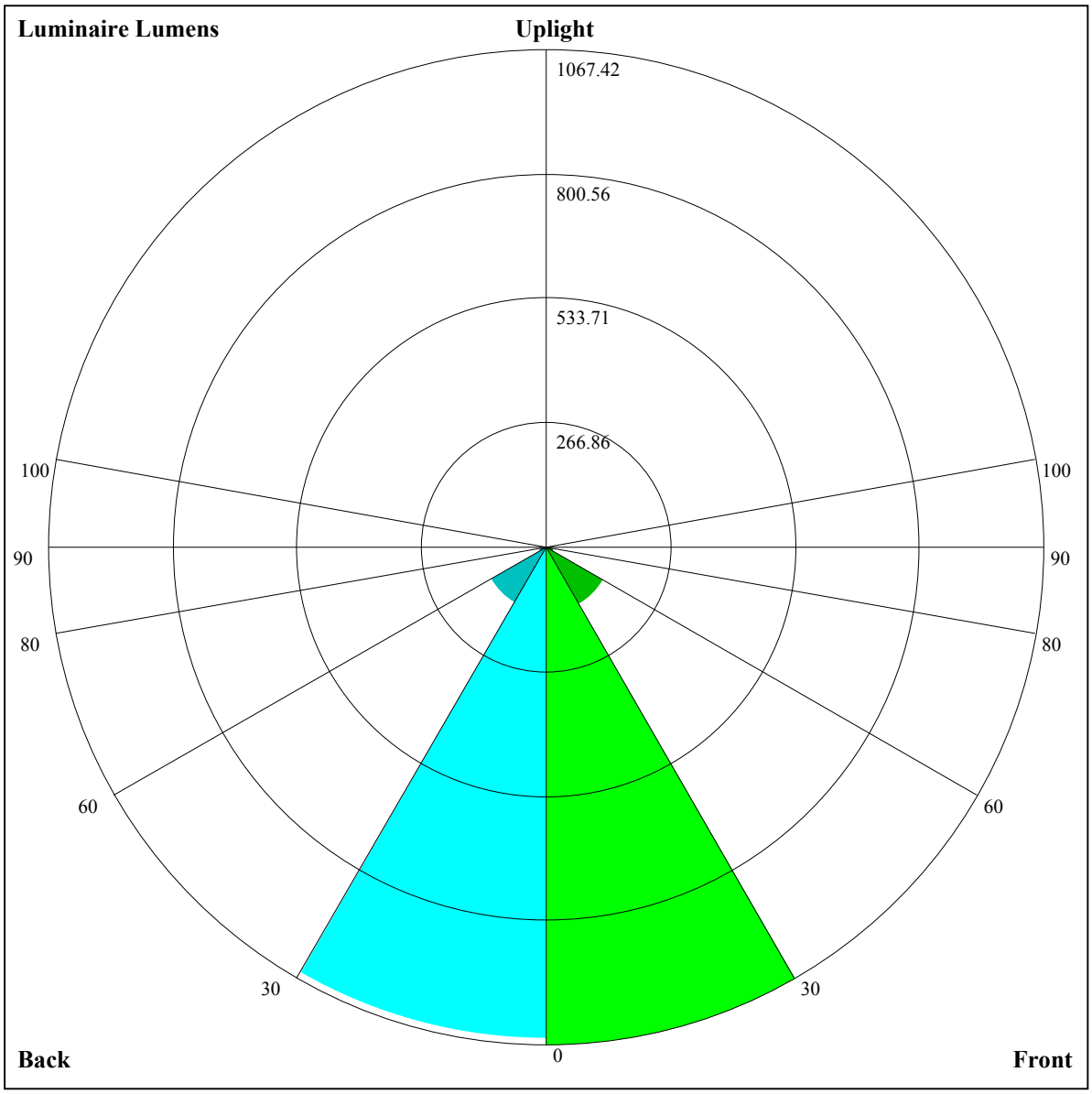
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.83	0.82	0.80
2	0.89	0.86	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.79	0.80	0.79	0.78	0.76
3	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.74	0.73
4	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.75	0.72	0.71	0.69
5	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64
7	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
8	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.63	0.60	0.58	0.57
10	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/27	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1067.42,FM=141.37,FH=17.9,FVH=6.16
BL=1054.77,BM=135.9,BH=17.64,BVH=6.11
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	8561.32	8519.76	8418.52	8274.55	7974.92	7628.47	7108.20	6649.97	6181.79
45.0	8545.51	8573.02	8548.44	8444.86	8312.59	8100.16	7781.21	7284.94	6834.32
90.0	8568.34	8534.39	8419.69	8268.12	8018.81	7668.26	7147.41	6696.20	6235.05
135.0	8542.00	8560.14	8524.45	8431.40	8211.94	7926.93	7557.65	7009.88	6553.41
180.0	8561.32	8554.29	8490.50	8352.97	8120.06	7702.20	7275.58	6812.08	6342.14
225.0	8545.51	8439.59	8268.12	8000.08	7639.00	7082.45	6603.74	6115.07	5516.39
270.0	8568.34	8550.20	8479.38	8303.23	8060.95	7617.93	7191.30	6715.52	6115.07
315.0	8542.00	8442.51	8313.76	8107.18	7717.42	7307.76	6729.56	6257.28	5776.81
360.0	8561.32	8519.76	8418.52	8274.55	7974.92	7628.47	7108.20	6649.97	6181.79

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5590.13	5129.56	4685.96	4276.30	3798.75	3457.57	3150.91	2874.10	2567.44
45.0	6254.94	5792.62	5327.36	4776.08	4367.01	3970.22	3616.75	3209.43	2928.52
90.0	5769.21	5198.61	4762.62	4247.62	3866.05	3522.53	3137.45	2862.39	2616.60
135.0	6085.23	5631.68	5185.15	4657.86	4159.84	3787.63	3447.62	3142.13	2798.60
180.0	5757.50	5296.93	4740.38	4327.21	3943.89	3507.31	3197.73	2917.99	2597.87
225.0	5043.53	4606.95	4108.34	3742.57	3406.07	3028.60	2771.10	2533.50	2323.99
270.0	5643.97	5178.13	4621.58	4213.68	3844.40	3502.63	3190.71	2851.86	2606.65
315.0	5308.63	4759.11	4350.62	3971.40	3620.85	3227.57	2950.76	2696.78	2467.37
360.0	5590.13	5129.56	4685.96	4276.30	3798.75	3457.57	3150.91	2874.10	2567.44

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2354.42	2163.64	1950.61	1793.77	1649.22	1481.85	1159.33	1159.33	1111.69
45.0	2674.54	2449.81	2204.02	2028.45	1864.00	1718.86	1547.39	1416.30	1261.22
90.0	2400.07	2157.78	1989.82	1832.40	1687.26	1516.96	1300.43	1159.74	1159.74
135.0	2555.15	2347.98	2112.14	1944.76	1792.02	1652.15	1485.36	1360.71	1240.74
180.0	2376.07	2188.80	1999.77	1803.72	1662.68	1521.06	1402.26	1248.93	1142.42
225.0	2086.97	1921.35	1773.29	1631.67	1467.80	1150.38	1150.38	1107.36	1029.41
270.0	2378.41	2144.32	1979.29	1821.28	1639.27	1502.92	1344.32	1229.62	1131.88
315.0	2211.04	2033.72	1837.08	1691.94	1556.17	1312.72	1167.29	1167.29	1082.49
360.0	2354.42	2163.64	1950.61	1793.77	1649.22	1481.85	1159.33	1159.33	1111.69

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1030.00	964.57	905.17	796.78	703.91	603.95	500.43	367.58	274.53
45.0	1155.88	1066.34	980.31	921.79	842.20	747.98	625.08	522.08	419.08
90.0	1053.46	983.18	908.56	822.24	724.22	600.50	494.40	390.58	266.98
135.0	1137.15	1035.32	972.12	905.99	790.11	693.55	569.48	465.90	360.56
180.0	1055.80	970.95	911.25	822.88	696.48	599.91	496.91	363.48	297.94
225.0	951.05	881.11	794.15	692.03	562.11	454.78	353.42	261.48	163.75
270.0	1049.37	968.02	904.23	813.52	714.03	585.28	481.11	374.02	302.62
315.0	995.99	940.05	860.63	764.89	640.35	535.54	427.80	306.42	219.05
360.0	1030.00	964.57	905.17	796.78	703.91	603.95	500.43	367.58	274.53

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	194.06	117.57	94.10	82.98	76.25	70.34	63.56	58.93	54.72
45.0	319.01	319.01	136.94	102.30	89.07	81.29	75.08	67.65	62.50
90.0	183.00	119.44	92.64	82.05	75.49	69.93	64.61	58.76	54.60
135.0	312.57	312.57	105.34	87.02	79.42	71.98	66.48	61.45	57.00
180.0	297.94	121.20	87.26	79.53	72.68	67.18	60.63	56.18	52.14
225.0	111.43	90.36	82.40	74.03	68.12	61.39	56.65	52.38	47.81
270.0	302.62	113.71	87.37	79.24	72.74	65.84	60.63	56.12	52.03
315.0	146.25	96.91	86.26	76.37	70.46	64.90	59.93	54.48	50.56
360.0	194.06	117.57	94.10	82.98	76.25	70.34	63.56	58.93	54.72

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	51.03	46.70	43.72	41.14	38.86	36.23	34.76	33.18	32.25
45.0	56.94	52.96	49.28	46.06	42.37	40.03	37.81	36.11	34.41
90.0	50.86	46.58	43.66	40.38	38.45	36.40	35.05	33.42	32.60
135.0	51.97	48.52	44.54	41.90	39.56	37.22	35.46	34.24	32.71
180.0	47.75	44.65	41.49	39.15	37.28	35.46	33.83	32.60	31.66
225.0	44.42	41.79	38.74	36.75	34.88	33.59	31.95	31.13	30.26
270.0	47.46	44.24	41.55	39.03	36.64	34.76	33.36	31.89	30.96
315.0	47.05	43.89	40.50	38.27	36.28	34.18	32.83	31.66	30.67
360.0	51.03	46.70	43.72	41.14	38.86	36.23	34.76	33.18	32.25

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.49	30.78	30.26	29.61	29.03	27.74	26.80	25.52	24.23
45.0	33.30	32.42	31.54	31.02	30.37	29.67	28.68	27.62	26.10
90.0	31.72	31.02	30.49	29.90	29.50	28.62	27.33	26.16	24.70
135.0	31.95	31.08	30.67	30.26	29.50	29.03	27.92	26.74	25.34
180.0	30.72	30.08	29.67	29.14	28.50	27.56	26.63	25.16	24.11
225.0	29.73	29.20	28.73	28.27	27.04	26.10	24.58	23.53	22.36
270.0	30.08	29.55	29.20	28.62	28.15	27.21	26.34	24.76	23.76
315.0	30.08	29.73	29.09	28.73	27.92	26.98	25.75	24.46	23.47
360.0	31.49	30.78	30.26	29.61	29.03	27.74	26.80	25.52	24.23

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.94	21.65	20.66	19.49	18.32	17.56	16.74	16.09	15.63
45.0	24.87	23.82	22.41	21.13	19.96	18.96	18.08	17.15	16.50
90.0	23.47	22.18	20.89	19.61	18.67	17.62	16.85	16.27	15.80
135.0	24.29	22.71	21.54	20.31	19.08	18.20	17.44	16.50	15.98
180.0	22.94	21.42	20.42	19.25	18.08	17.32	16.50	15.98	15.39
225.0	21.13	19.90	18.73	17.91	17.09	16.21	15.68	15.22	14.86
270.0	22.47	21.30	20.37	18.90	18.02	17.26	16.33	15.74	15.22
315.0	22.06	20.78	19.61	18.55	17.56	16.74	16.04	15.57	15.16
360.0	22.94	21.65	20.66	19.49	18.32	17.56	16.74	16.09	15.63

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.10	14.69	14.34	14.05	13.69	13.46	13.17	12.87	12.52
45.0	15.98	15.45	15.04	14.57	14.22	13.93	13.58	13.23	12.93
90.0	15.22	14.86	14.51	14.16	13.75	13.46	13.23	12.82	12.58
135.0	15.45	15.04	14.63	14.28	13.93	13.64	13.28	12.99	12.64
180.0	14.98	14.63	14.28	13.87	13.58	13.23	12.93	12.64	12.29
225.0	14.40	14.10	13.75	13.40	13.17	12.82	12.58	12.29	12.00
270.0	14.81	14.46	14.05	13.75	13.52	13.23	12.87	12.64	12.41
315.0	14.69	14.34	14.05	13.75	13.46	13.11	12.82	12.58	12.29
360.0	15.10	14.69	14.34	14.05	13.69	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	11.65	11.41	11.24	10.94	10.77	10.53	10.36
45.0	12.64	12.35	12.00	11.76	11.47	11.24	11.06	10.77	10.53
90.0	12.23	12.00	11.70	11.47	11.24	11.06	10.83	10.59	10.42
135.0	12.41	12.11	11.76	11.53	11.29	11.06	10.83	10.65	10.53
180.0	12.00	11.70	11.47	11.24	11.06	10.83	10.65	10.48	10.30
225.0	11.70	11.47	11.24	11.06	10.83	10.65	10.48	10.30	10.36
270.0	12.11	11.82	11.59	11.29	11.12	10.83	10.65	10.59	10.30
315.0	12.00	11.70	11.47	11.24	11.06	10.83	10.59	10.53	10.36
360.0	12.23	11.88	11.65	11.41	11.24	10.94	10.77	10.53	10.36

Intensity data(cd)

C/γ(°)	90.0
0.0	10.30
45.0	10.36
90.0	10.30
135.0	10.36
180.0	10.36
225.0	10.36
270.0	10.48
315.0	10.53
360.0	10.30