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NT

Client:
LumCAT: 2-2680-L
Luminaire: 92.70.411.00
Report No: 2024330-B007
Ballast type: AC

Test No: 2024330-C007	Voltage(V): 34.070
LampCAT: LUMILEDS LUXEON 1208	Current(A): 0.576
Lamp flux(lm): 2850.0	Power (W): 19.624
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2354.17, Efficiency(%): 82.60% , Luminous Efficacy(lm/W): 119.96
Central intensity(cd): 5295.467, Maximum intensity(cd): 5295.467
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.0
[C90/270]Total=37.0
Field angle(10%Imax): [C0/180]Total=64.8
[C90/270]Total=64.8
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.60%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.199%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5295.467	0.000	0	0.00%	0.00%
1.0	5283.616	5.062	5.062	0.18%	0.22%
2.0	5259.329	15.132	20.194	0.53%	0.86%
3.0	5220.412	25.064	45.258	0.88%	1.92%
4.0	5161.011	34.750	80.008	1.22%	3.40%
5.0	5073.740	44.029	124.038	1.54%	5.27%
6.0	4966.497	52.764	176.802	1.85%	7.51%
7.0	4852.817	60.948	237.75	2.14%	10.10%
8.0	4707.316	68.420	306.17	2.40%	13.01%
9.0	4552.085	75.042	381.212	2.63%	16.19%
10.0	4372.128	80.761	461.973	2.83%	19.62%
11.0	4195.098	85.604	547.577	3.00%	23.26%
12.0	4003.363	89.621	637.198	3.14%	27.07%
13.0	3813.531	92.767	729.965	3.25%	31.01%
14.0	3594.584	94.823	824.788	3.33%	35.04%
15.0	3391.657	95.910	920.699	3.37%	39.11%
16.0	3168.979	96.132	1016.83	3.37%	43.19%
17.0	2969.710	95.596	1112.426	3.35%	47.25%
18.0	2760.711	94.482	1206.908	3.32%	51.27%
19.0	2547.982	92.360	1299.269	3.24%	55.19%
20.0	2325.523	89.199	1388.468	3.13%	58.98%
21.0	2130.570	85.566	1474.034	3.00%	62.61%
22.0	1925.010	81.499	1555.532	2.86%	66.08%
23.0	1741.469	76.933	1632.465	2.70%	69.34%
24.0	1558.001	72.138	1704.603	2.53%	72.41%
25.0	1310.831	65.231	1769.834	2.29%	75.18%
26.0	1238.629	60.180	1830.014	2.11%	77.74%
27.0	1123.383	57.787	1887.801	2.03%	80.19%
28.0	995.139	53.636	1941.438	1.88%	82.47%
29.0	876.323	48.963	1990.401	1.72%	84.55%
30.0	761.956	44.233	2034.634	1.55%	86.43%
31.0	659.468	39.556	2074.19	1.39%	88.11%
32.0	561.253	34.972	2109.162	1.23%	89.59%
33.0	471.252	30.418	2139.58	1.07%	90.88%
34.0	394.230	26.192	2165.772	0.92%	92.00%
35.0	326.285	22.377	2188.149	0.79%	92.95%
36.0	271.179	19.023	2207.172	0.67%	93.76%
37.0	243.102	16.773	2223.945	0.59%	94.47%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	174.799	13.949	2237.894	0.49%	95.06%
39.0	127.023	10.302	2248.196	0.36%	95.50%
40.0	99.364	7.896	2256.092	0.28%	95.83%
41.0	78.420	6.331	2262.422	0.22%	96.10%
42.0	63.848	5.169	2267.591	0.18%	96.32%
43.0	53.533	4.348	2271.939	0.15%	96.51%
44.0	46.445	3.773	2275.713	0.13%	96.67%
45.0	41.229	3.369	2279.082	0.12%	96.81%
46.0	37.308	3.071	2282.154	0.11%	96.94%
47.0	34.075	2.839	2284.993	0.10%	97.06%
48.0	31.492	2.651	2287.643	0.09%	97.17%
49.0	29.232	2.494	2290.137	0.09%	97.28%
50.0	27.286	2.356	2292.494	0.08%	97.38%
51.0	25.684	2.241	2294.735	0.08%	97.48%
52.0	24.265	2.143	2296.878	0.08%	97.57%
53.0	23.058	2.059	2298.936	0.07%	97.65%
54.0	21.975	1.985	2300.921	0.07%	97.74%
55.0	21.068	1.921	2302.843	0.07%	97.82%
56.0	20.241	1.867	2304.709	0.07%	97.90%
57.0	19.561	1.820	2306.529	0.06%	97.98%
58.0	18.932	1.780	2308.309	0.06%	98.05%
59.0	18.405	1.746	2310.055	0.06%	98.13%
60.0	17.923	1.716	2311.771	0.06%	98.20%
61.0	17.535	1.692	2313.463	0.06%	98.27%
62.0	17.169	1.672	2315.135	0.06%	98.34%
63.0	16.847	1.654	2316.79	0.06%	98.41%
64.0	16.540	1.638	2318.428	0.06%	98.48%
65.0	16.233	1.622	2320.05	0.06%	98.55%
66.0	15.947	1.606	2321.656	0.06%	98.62%
67.0	15.728	1.593	2323.248	0.06%	98.69%
68.0	15.530	1.583	2324.832	0.06%	98.75%
69.0	15.304	1.573	2326.405	0.06%	98.82%
70.0	15.128	1.563	2327.968	0.05%	98.89%
71.0	14.945	1.554	2329.522	0.05%	98.95%
72.0	14.631	1.538	2331.06	0.05%	99.02%
73.0	14.294	1.513	2332.572	0.05%	99.08%
74.0	14.038	1.489	2334.062	0.05%	99.15%
75.0	13.672	1.464	2335.526	0.05%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.387	1.436	2336.962	0.05%	99.27%
77.0	13.036	1.409	2338.371	0.05%	99.33%
78.0	12.729	1.379	2339.75	0.05%	99.39%
79.0	12.392	1.350	2341.1	0.05%	99.44%
80.0	12.056	1.318	2342.418	0.05%	99.50%
81.0	11.712	1.285	2343.703	0.05%	99.56%
82.0	11.419	1.254	2344.958	0.04%	99.61%
83.0	11.141	1.226	2346.184	0.04%	99.66%
84.0	10.929	1.202	2347.387	0.04%	99.71%
85.0	10.710	1.181	2348.568	0.04%	99.76%
86.0	10.476	1.158	2349.726	0.04%	99.81%
87.0	10.278	1.136	2350.861	0.04%	99.86%
88.0	10.095	1.116	2351.977	0.04%	99.91%
89.0	9.985	1.101	2353.078	0.04%	99.95%
90.0	9.890	1.090	2354.168	0.04%	100.00%

Zonal flux distribution table

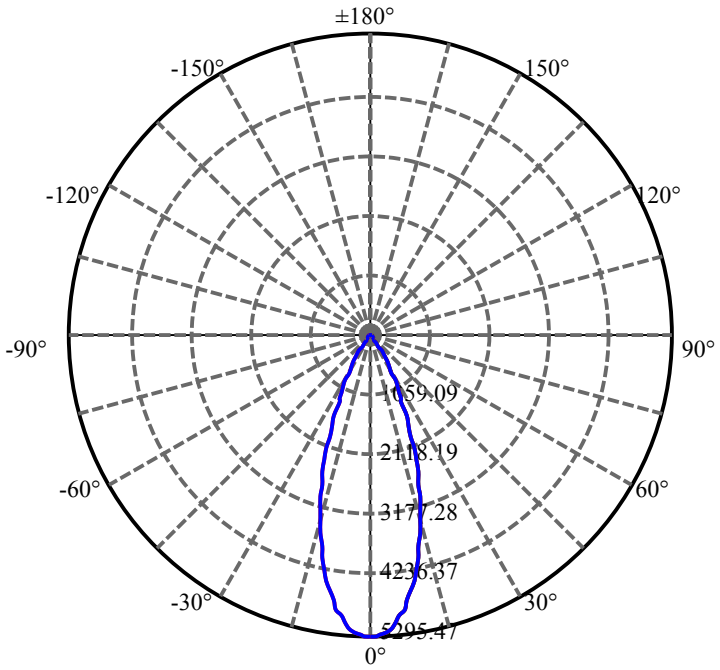
ZONAL LUMEN SUMMARY

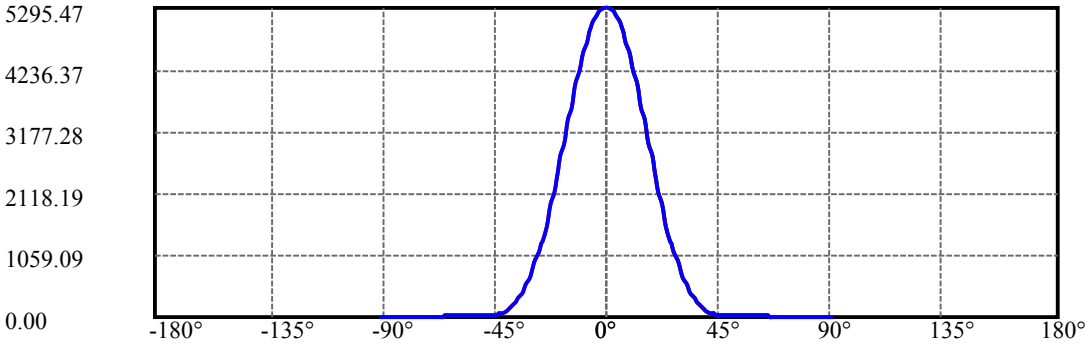
Zone	Lumens	%Lamp	%Fixt
0-30	2034.63	71.39%	86.43%
0-40	2256.09	79.16%	95.83%
0-60	2311.77	81.11%	98.20%
0-90	2353.08	82.56%	99.95%
0-120	2353.08	82.56%	99.95%
0-180	2354.17	82.60%	100.00%
60-90	41.31	1.45%	1.75%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.92	1883.33	66.08%	80.00%

ZONAL LUMEN SUMMARY

0-10	461.97
10-20	926.49
20-30	646.17
30-40	221.46
40-50	36.40
50-60	19.28
60-70	16.20
70-80	14.45
80-90	10.66
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):

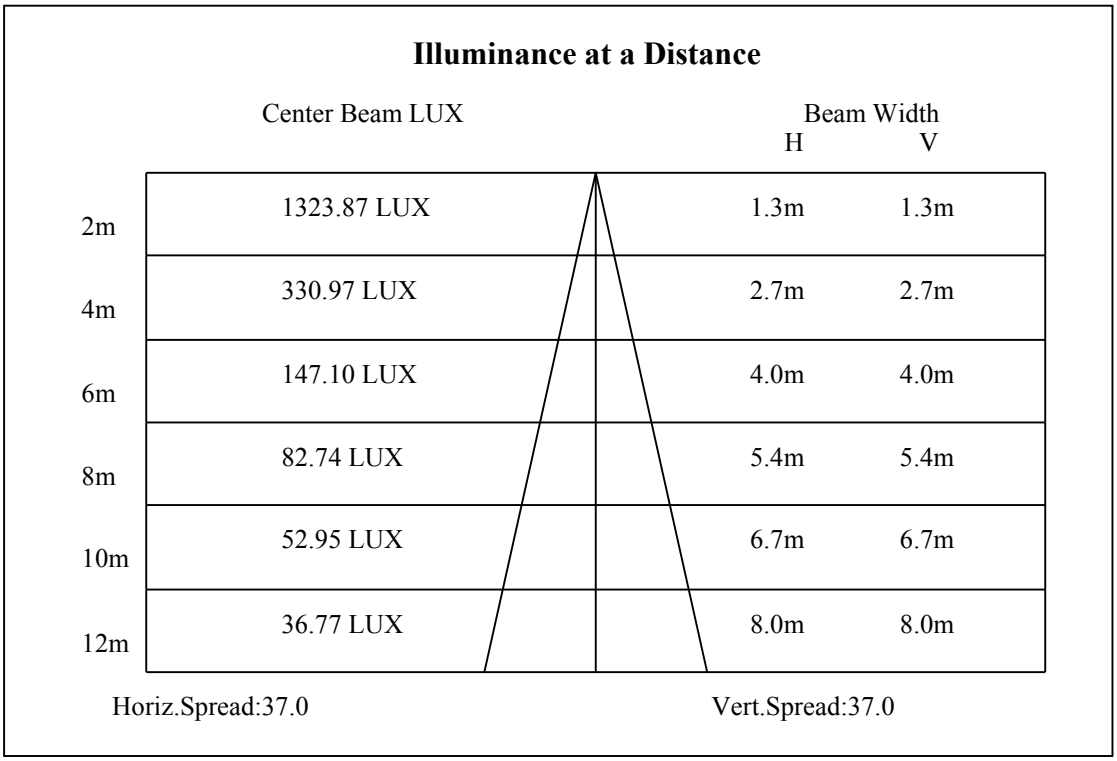
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.4 Right:32.4
:C90/270Left:32.4 Right:32.4

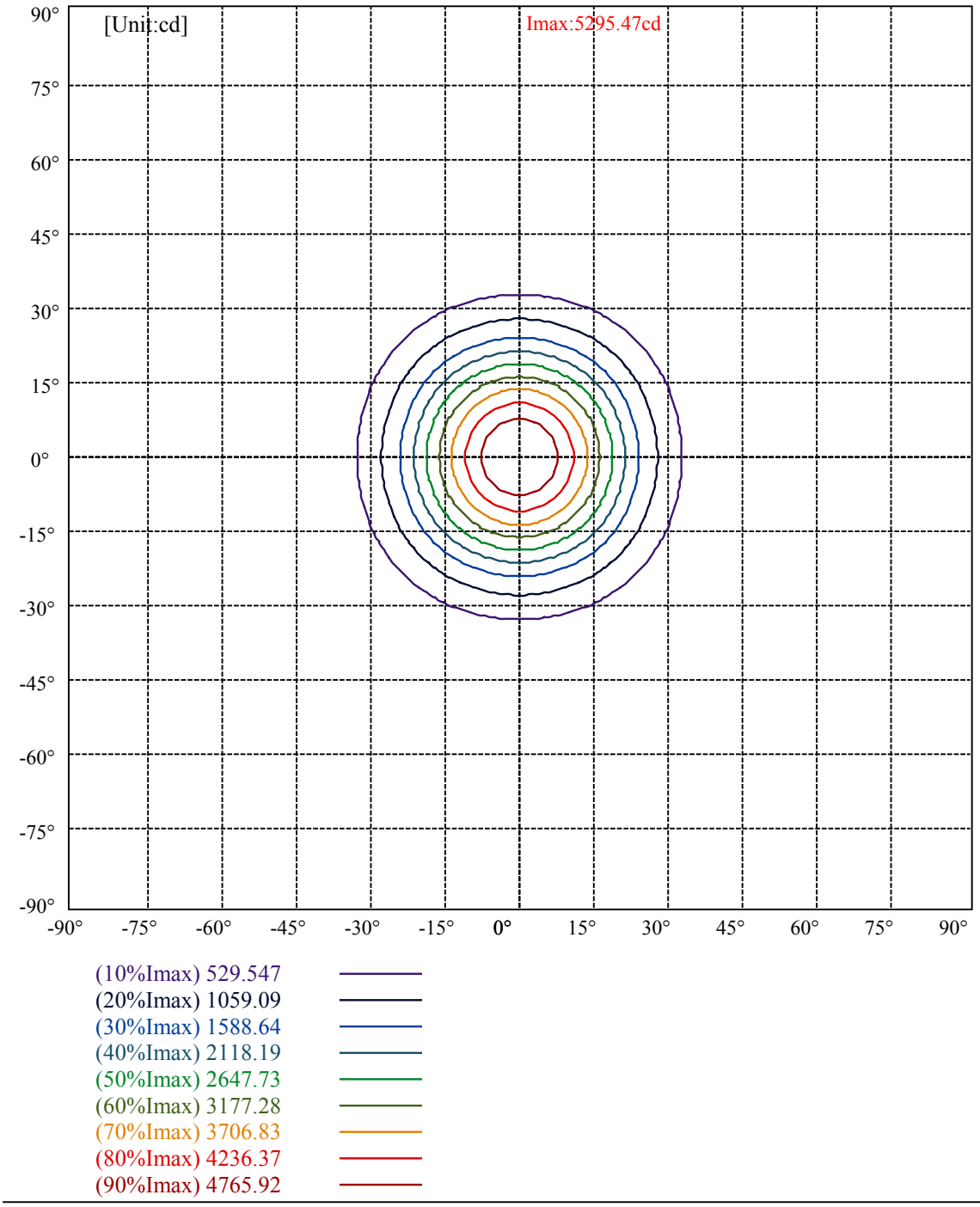
Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5
:C90/270Left:18.5 Right:18.5

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)



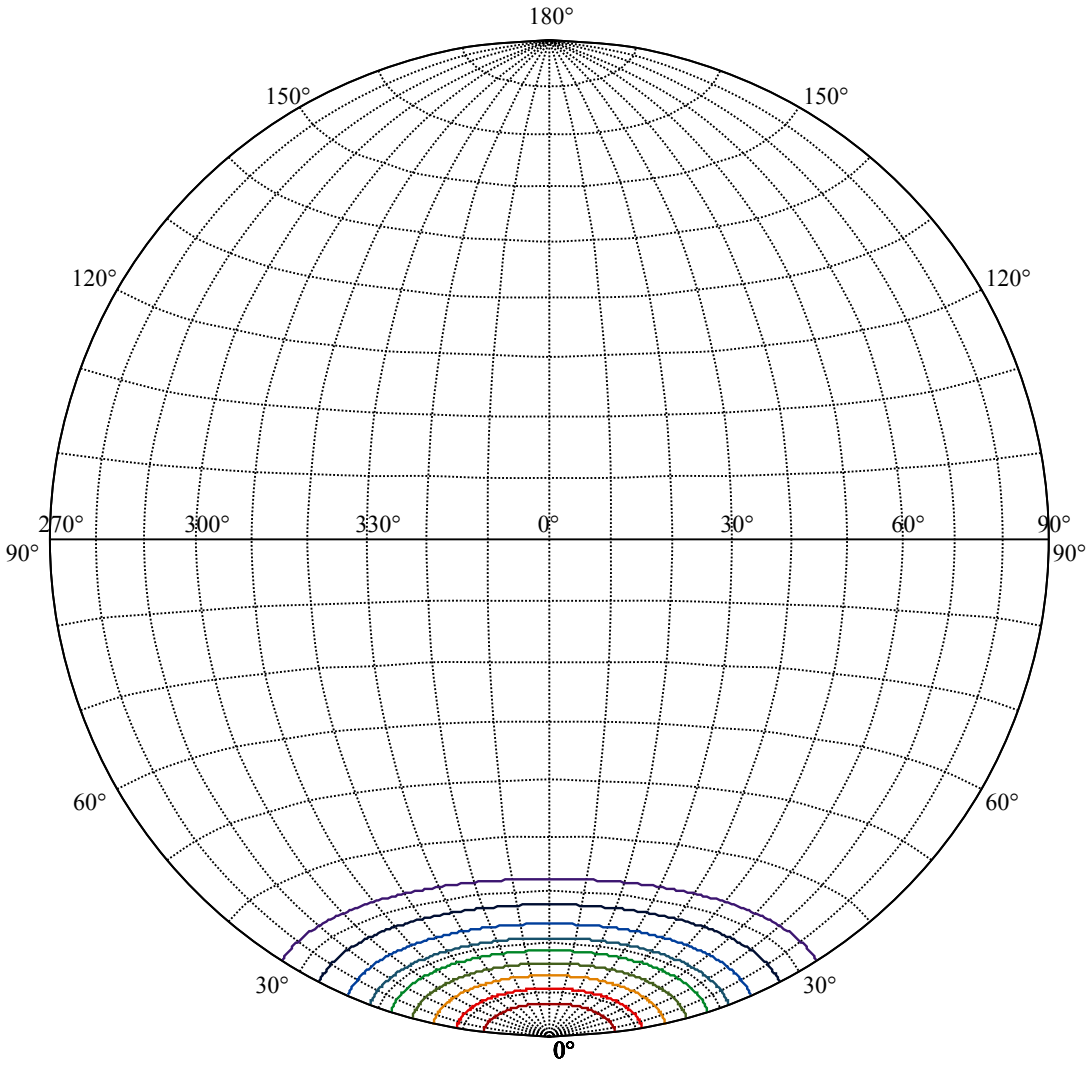
(10%Imax) 529.547
(20%Imax) 1059.09
(30%Imax) 1588.64
(40%Imax) 2118.19
(50%Imax) 2647.73
(60%Imax) 3177.28
(70%Imax) 3706.83
(80%Imax) 4236.37
(90%Imax) 4765.92

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/30
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



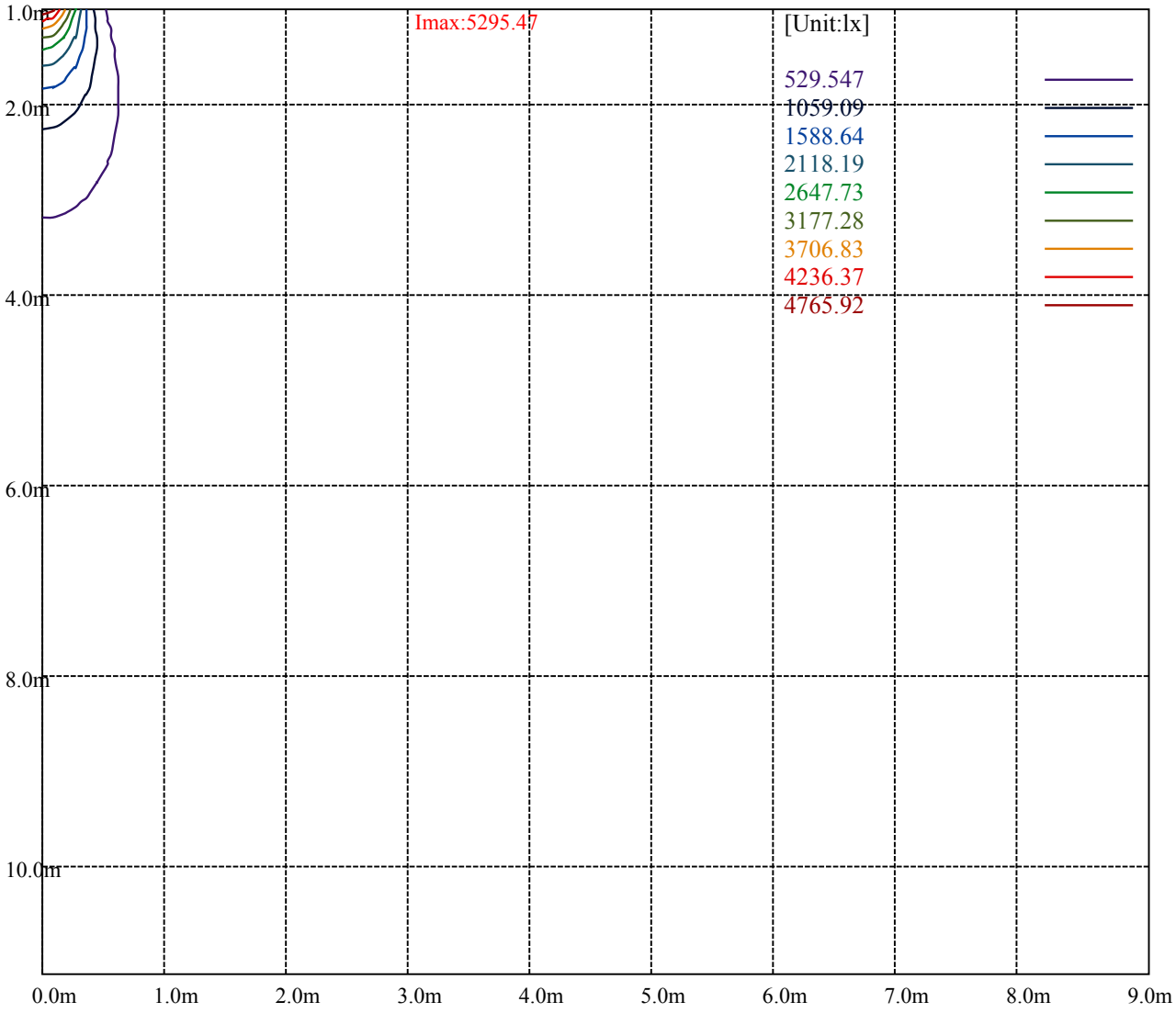
[Unit:cd]

Imax:5295.47

(10%Imax) 529.547
(20%Imax) 1059.09
(30%Imax) 1588.64
(40%Imax) 2118.19
(50%Imax) 2647.73
(60%Imax) 3177.28
(70%Imax) 3706.83
(80%Imax) 4236.37
(90%Imax) 4765.92

Equipment: GMS1980	Date: 2024/3/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/30
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

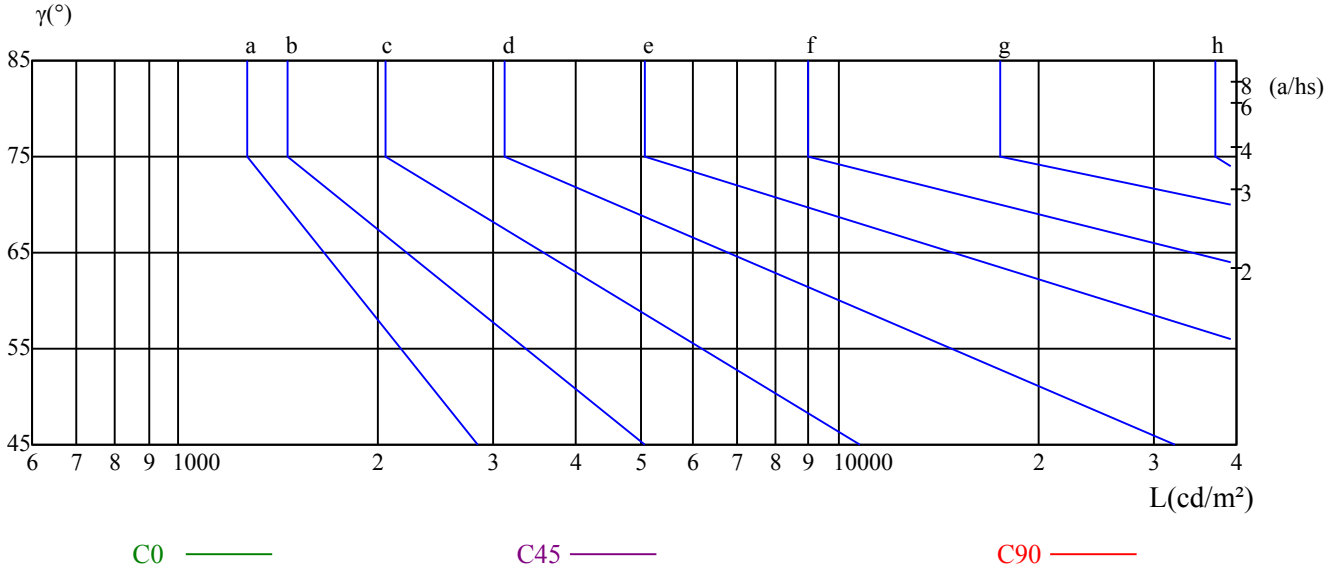
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

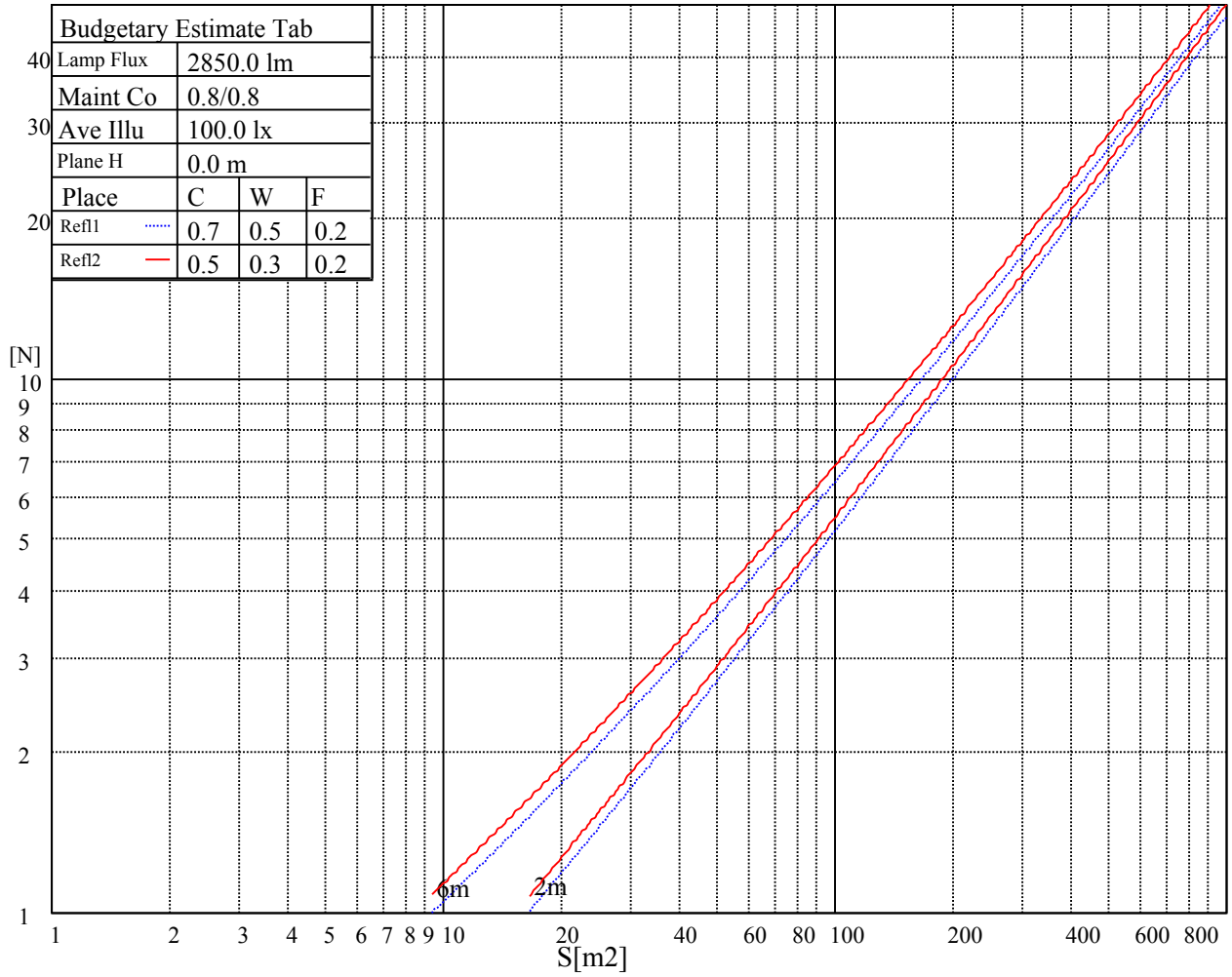
Luminance Limitting Curve



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		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

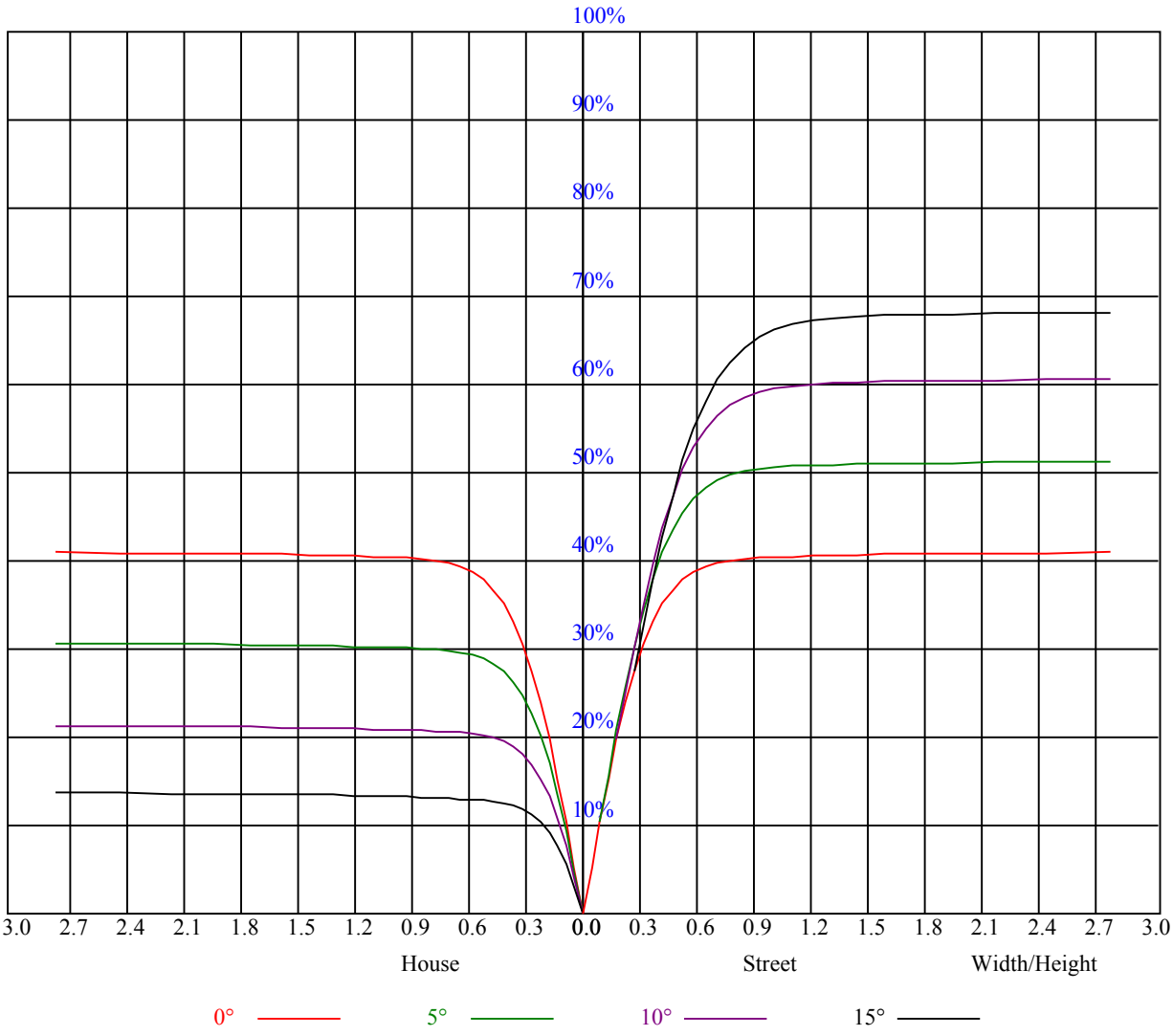


Equipment: GMS1980 Date: 2024/3/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

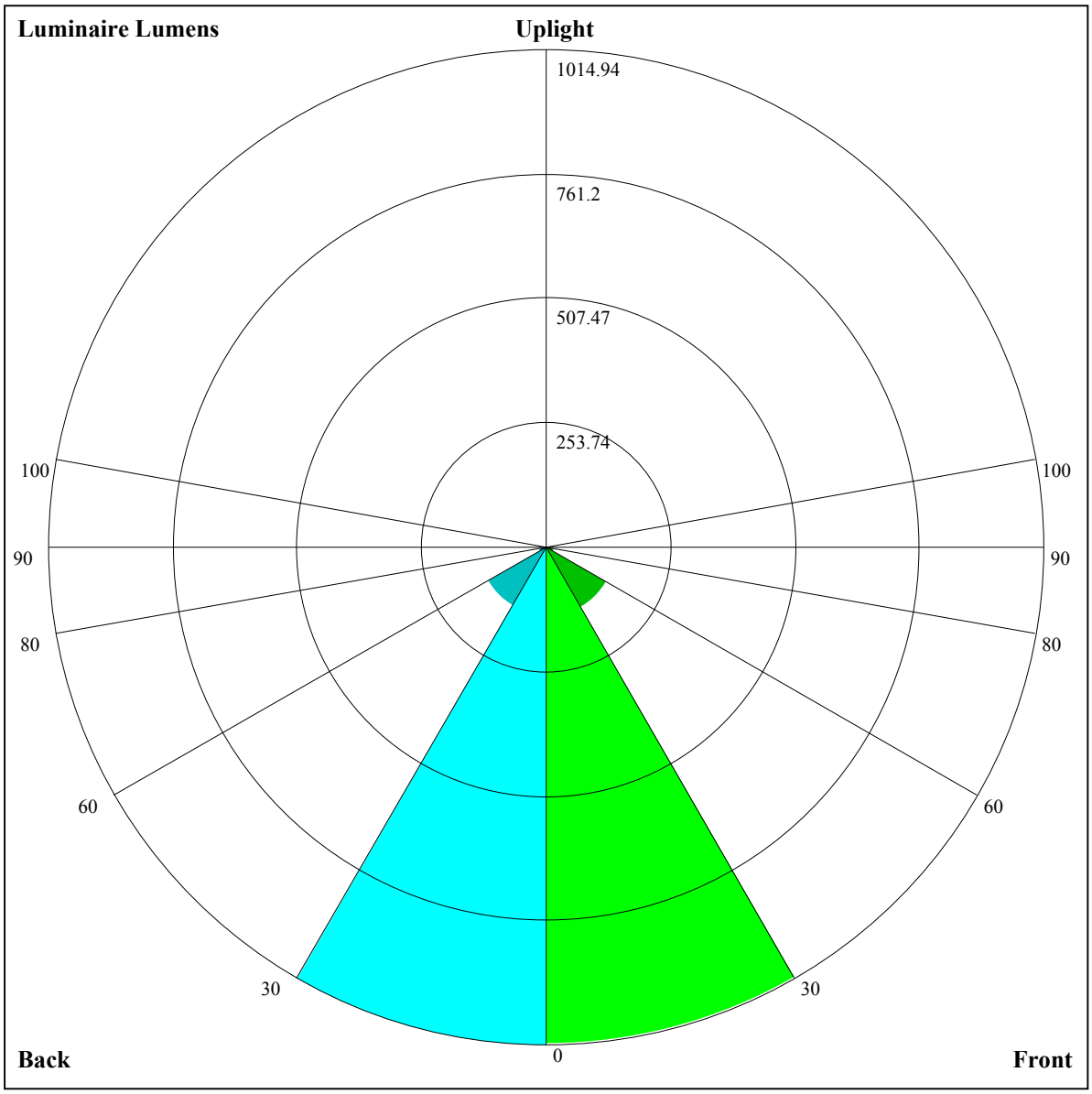
Utilization factor table for indoor luminaire

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	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	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	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.80	0.78	0.77	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.74	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.68	0.72	0.70	0.68	0.67
5	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.63	0.70	0.66	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.64	0.61	0.60
7	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
8	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1012.53,FM=141.9,FH=15.54,FVH=5.9
BL=1014.94,BM=138.53,BH=15.45,BVH=5.87
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	5301.03	5283.47	5257.13	5199.78	5156.48	5050.55	4947.55	4826.99	4694.15
45.0	5289.32	5302.78	5294.00	5258.89	5222.61	5159.40	5042.36	4939.36	4820.56
90.0	5298.69	5281.13	5250.11	5200.95	5124.87	5030.65	4901.90	4781.35	4642.65
135.0	5292.83	5295.17	5274.11	5256.55	5198.03	5123.12	5035.92	4934.09	4792.47
180.0	5301.03	5284.06	5258.31	5234.31	5169.94	5091.52	4999.64	4896.05	4738.63
225.0	5289.32	5253.04	5227.29	5177.54	5103.81	4986.76	4883.18	4758.52	4577.69
270.0	5298.69	5294.00	5274.11	5240.75	5190.42	5120.19	5029.48	4920.05	4766.13
315.0	5292.83	5275.28	5239.58	5194.52	5121.95	5027.73	4891.95	4766.13	4626.26
360.0	5301.03	5283.47	5257.13	5199.78	5156.48	5050.55	4947.55	4826.99	4694.15

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4509.22	4338.33	4162.76	3980.76	3747.84	3559.98	3362.76	3115.80	2920.33
45.0	4657.28	4503.36	4334.82	4116.53	3933.94	3750.77	3561.15	3311.26	3113.46
90.0	4485.22	4275.71	4101.90	3925.16	3739.06	3496.78	3300.14	3057.27	2857.71
135.0	4653.18	4498.68	4296.20	4130.58	3952.08	3719.75	3520.77	3273.22	3076.00
180.0	4595.25	4438.40	4267.52	4045.72	3861.96	3615.58	3411.34	3208.26	2980.02
225.0	4411.48	4193.78	4018.80	3843.23	3651.28	3406.65	3210.02	3018.65	2823.77
270.0	4636.80	4478.79	4303.80	4085.51	3904.68	3724.43	3481.56	3276.73	3092.97
315.0	4468.25	4249.96	4074.98	3899.41	3717.41	3482.73	3285.51	3090.63	2893.41
360.0	4509.22	4338.33	4162.76	3980.76	3747.84	3559.98	3362.76	3115.80	2920.33

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2723.70	2524.72	2284.19	2093.99	1862.24	1689.02	1529.84	1152.66	1152.66
45.0	2920.92	2722.53	2483.17	2288.29	2091.65	1862.24	1691.36	1495.89	1352.51
90.0	2663.42	2419.38	2225.67	2033.72	1806.65	1643.37	1488.29	1146.51	1146.51
135.0	2877.61	2677.46	2427.57	2235.62	2047.18	1866.93	1656.25	1498.82	1350.17
180.0	2779.88	2576.22	2385.44	2154.86	1955.30	1773.29	1616.45	1415.13	1271.75
225.0	2627.72	2376.07	2182.36	1996.26	1776.22	1617.04	1319.74	1153.13	1153.13
270.0	2846.59	2638.25	2407.09	2220.40	2016.16	1843.52	1679.65	1480.09	1337.88
315.0	2645.86	2449.23	2208.70	2021.43	1844.69	1636.35	1482.43	1144.41	1144.41
360.0	2723.70	2524.72	2284.19	2093.99	1862.24	1689.02	1529.84	1152.66	1152.66

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1092.50	973.64	864.32	736.68	640.47	551.11	448.57	377.24	314.27
45.0	1216.74	1090.33	945.78	841.03	741.54	647.90	538.47	458.29	388.65
90.0	1053.70	938.00	832.66	706.66	615.25	508.03	428.44	359.21	283.01
135.0	1212.64	1054.63	938.76	804.74	705.25	612.20	505.69	429.61	360.56
180.0	1145.93	990.84	873.21	762.02	638.54	546.66	462.97	375.77	314.32
225.0	1002.26	888.31	780.57	679.86	587.74	481.64	408.66	343.06	285.47
270.0	1207.38	1083.31	939.93	831.08	729.83	611.62	525.59	428.44	358.80
315.0	1055.92	942.04	835.35	733.58	617.12	530.86	451.62	382.21	305.19
360.0	1092.50	973.64	864.32	736.68	640.47	551.11	448.57	377.24	314.27

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	246.32	199.33	159.47	120.26	97.44	79.53	65.78	53.67	46.88
45.0	324.86	295.60	295.60	157.25	116.75	92.52	70.87	59.05	50.74
90.0	229.41	183.59	144.73	107.10	85.79	69.99	58.58	48.69	43.19
135.0	296.77	296.77	174.10	135.83	105.93	79.59	65.08	54.95	46.23
180.0	300.86	300.86	156.72	124.71	99.37	80.12	63.09	53.78	46.99
225.0	221.39	177.50	133.43	106.16	85.33	66.89	56.83	49.51	43.01
270.0	299.11	299.11	181.60	143.97	113.83	85.38	69.76	58.58	50.45
315.0	250.71	192.07	152.74	120.91	90.48	73.33	60.80	50.04	44.07
360.0	246.32	199.33	159.47	120.26	97.44	79.53	65.78	53.67	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	41.79	37.86	34.00	31.54	28.91	27.15	25.63	24.05	22.88
45.0	44.77	39.33	35.99	33.30	30.96	28.50	26.92	25.46	23.99
90.0	39.03	35.00	32.42	30.26	28.03	26.39	25.11	23.64	22.59
135.0	41.38	37.69	34.00	31.54	29.44	27.15	25.63	24.29	23.17
180.0	40.85	37.16	34.18	31.08	28.97	26.80	25.28	23.94	22.82
225.0	39.15	36.05	33.42	30.67	28.79	27.10	25.63	24.11	23.00
270.0	43.31	39.27	35.99	33.24	30.43	28.56	26.51	25.11	23.88
315.0	39.56	36.11	32.60	30.31	28.32	26.63	24.76	23.53	22.12
360.0	41.79	37.86	34.00	31.54	28.91	27.15	25.63	24.05	22.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.89	20.83	20.07	19.37	18.79	18.20	17.73	17.32	16.97
45.0	22.94	22.00	21.07	20.37	19.72	19.02	18.55	18.14	17.67
90.0	21.71	20.89	20.01	19.37	18.84	18.38	17.91	17.56	17.26
135.0	21.89	21.01	20.25	19.43	18.84	18.32	17.85	17.44	17.09
180.0	21.48	20.66	19.90	19.25	18.49	18.02	17.56	17.15	16.80
225.0	22.06	21.01	20.19	19.49	18.90	18.43	17.91	17.56	17.26
270.0	22.59	21.65	20.83	20.19	19.37	18.84	18.38	17.91	17.44
315.0	21.24	20.48	19.61	19.02	18.49	18.02	17.50	17.21	16.85
360.0	21.89	20.83	20.07	19.37	18.79	18.20	17.73	17.32	16.97

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.56	16.33	16.04	15.68	15.33	15.04	14.69	14.40	14.10
45.0	17.38	17.09	16.80	16.44	16.15	15.92	15.57	15.22	14.98
90.0	16.91	16.68	16.39	16.33	16.91	17.38	17.79	18.67	19.31
135.0	16.74	16.44	16.21	15.86	15.57	15.27	14.98	14.63	14.34
180.0	16.50	16.15	15.86	15.63	15.27	14.98	14.69	14.40	14.05
225.0	16.97	16.68	16.27	15.98	15.63	15.33	14.98	14.63	14.34
270.0	17.15	16.80	16.44	16.09	15.80	15.45	15.16	14.86	14.51
315.0	16.56	16.15	15.86	15.57	15.16	14.86	14.57	14.22	13.93
360.0	16.56	16.33	16.04	15.68	15.33	15.04	14.69	14.40	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	13.52	13.28	13.05	12.76	12.47	12.23	12.00	11.76
45.0	14.69	14.57	14.51	14.34	14.22	13.87	13.52	13.17	12.76
90.0	18.73	17.91	17.56	16.50	15.80	14.92	14.51	13.58	12.70
135.0	14.05	13.81	13.52	13.23	13.05	12.76	12.47	12.23	12.06
180.0	13.81	13.52	13.28	12.99	12.76	12.52	12.23	12.00	11.70
225.0	14.05	13.75	13.40	13.17	12.87	12.64	12.29	12.06	11.82
270.0	14.22	13.93	13.64	13.28	13.05	12.82	12.52	12.29	12.06
315.0	13.69	13.34	13.11	12.82	12.58	12.29	12.06	11.82	11.59
360.0	13.81	13.52	13.28	13.05	12.76	12.47	12.23	12.00	11.76

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.53	11.29	11.06	10.89	10.71	10.59	10.30	10.18	10.07
45.0	12.52	12.11	11.70	11.41	11.00	10.83	10.59	10.24	10.07
90.0	11.88	11.41	11.12	10.83	10.65	10.30	10.18	10.01	9.89
135.0	11.76	11.47	11.24	11.00	10.83	10.42	10.30	10.07	9.95
180.0	11.53	11.29	11.06	10.89	10.65	10.48	10.30	10.12	9.95
225.0	11.47	11.24	11.00	10.83	10.53	10.42	10.18	10.07	9.95
270.0	11.70	11.41	11.06	10.89	10.71	10.48	10.24	10.07	10.12
315.0	11.29	11.12	10.89	10.71	10.59	10.30	10.12	10.01	9.89
360.0	11.53	11.29	11.06	10.89	10.71	10.59	10.30	10.18	10.07

Intensity data(cd)

C/γ(°)	90.0
0.0	10.01
45.0	9.89
90.0	9.83
135.0	9.83
180.0	9.89
225.0	9.89
270.0	9.89
315.0	9.89
360.0	10.01