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NT

Client:
LumCAT: 2-2756-L
Luminaire: 92.70.412.00
Report No: 2024807-B005
Ballast type: AC

Test No: 2024807-C005	Voltage(V): 34.900
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2561.0	Power (W): 15.705
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2415.96, Efficiency(%): 94.34% , Luminous Efficacy(lm/W): 153.83
Central intensity(cd): 5269.425, Maximum intensity(cd): 5269.425
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.2
[C90/270]Total=36.2
Field angle(10%Imax): [C0/180]Total=66.0
[C90/270]Total=66.0
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.63 C90_270=0.63
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.34%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.088%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5269.424	0.000	0	0.00%	0.00%
1.0	5251.063	5.034	5.034	0.20%	0.21%
2.0	5198.393	14.998	20.032	0.59%	0.83%
3.0	5131.092	24.705	44.737	0.96%	1.85%
4.0	5041.333	34.050	78.787	1.33%	3.26%
5.0	4933.725	42.912	121.699	1.68%	5.04%
6.0	4796.563	51.135	172.834	2.00%	7.15%
7.0	4654.353	58.662	231.496	2.29%	9.58%
8.0	4492.465	65.462	296.958	2.56%	12.29%
9.0	4323.920	71.452	368.41	2.79%	15.25%
10.0	4140.233	76.597	445.008	2.99%	18.42%
11.0	3957.204	80.910	525.918	3.16%	21.77%
12.0	3776.808	84.544	610.461	3.30%	25.27%
13.0	3601.314	87.560	698.021	3.42%	28.89%
14.0	3404.459	89.673	787.694	3.50%	32.60%
15.0	3223.990	90.998	878.693	3.55%	36.37%
16.0	3036.791	91.738	970.431	3.58%	40.17%
17.0	2843.520	91.572	1062.003	3.58%	43.96%
18.0	2655.078	90.660	1152.663	3.54%	47.71%
19.0	2485.143	89.429	1242.092	3.49%	51.41%
20.0	2308.040	87.729	1329.821	3.43%	55.04%
21.0	2150.321	85.610	1415.43	3.34%	58.59%
22.0	1992.018	83.242	1498.672	3.25%	62.03%
23.0	1842.127	80.451	1579.123	3.14%	65.36%
24.0	1701.820	77.483	1656.607	3.03%	68.57%
25.0	1563.121	74.238	1730.844	2.90%	71.64%
26.0	1353.304	68.843	1799.687	2.69%	74.49%
27.0	1273.340	64.261	1863.948	2.51%	77.15%
28.0	1166.061	61.760	1925.709	2.41%	79.71%
29.0	1035.563	57.601	1983.309	2.25%	82.09%
30.0	899.857	52.256	2035.565	2.04%	84.25%
31.0	763.485	46.288	2081.854	1.81%	86.17%
32.0	640.492	40.222	2122.076	1.57%	87.84%
33.0	527.683	34.415	2156.491	1.34%	89.26%
34.0	439.826	29.280	2185.77	1.14%	90.47%
35.0	362.035	24.903	2210.673	0.97%	91.50%
36.0	305.253	21.247	2231.92	0.83%	92.38%
37.0	260.103	18.439	2250.359	0.72%	93.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	235.736	16.550	2266.909	0.65%	93.83%
39.0	177.660	14.110	2281.019	0.55%	94.41%
40.0	144.668	11.242	2292.261	0.44%	94.88%
41.0	119.254	9.398	2301.659	0.37%	95.27%
42.0	100.154	7.971	2309.631	0.31%	95.60%
43.0	83.680	6.810	2316.44	0.27%	95.88%
44.0	70.300	5.812	2322.252	0.23%	96.12%
45.0	60.805	5.039	2327.291	0.20%	96.33%
46.0	53.007	4.451	2331.741	0.17%	96.51%
47.0	46.686	3.965	2335.707	0.15%	96.68%
48.0	42.268	3.596	2339.303	0.14%	96.83%
49.0	38.639	3.323	2342.625	0.13%	96.96%
50.0	35.457	3.089	2345.714	0.12%	97.09%
51.0	33.021	2.897	2348.612	0.11%	97.21%
52.0	30.900	2.743	2351.355	0.11%	97.33%
53.0	29.144	2.612	2353.966	0.10%	97.43%
54.0	27.498	2.497	2356.463	0.10%	97.54%
55.0	26.211	2.397	2358.86	0.09%	97.64%
56.0	24.996	2.314	2361.174	0.09%	97.73%
57.0	24.038	2.242	2363.416	0.09%	97.82%
58.0	23.051	2.178	2365.594	0.09%	97.92%
59.0	22.209	2.116	2367.71	0.08%	98.00%
60.0	21.441	2.062	2369.772	0.08%	98.09%
61.0	20.761	2.014	2371.786	0.08%	98.17%
62.0	20.132	1.970	2373.756	0.08%	98.25%
63.0	19.495	1.927	2375.684	0.08%	98.33%
64.0	18.961	1.887	2377.571	0.07%	98.41%
65.0	18.486	1.853	2379.424	0.07%	98.49%
66.0	18.018	1.821	2381.245	0.07%	98.56%
67.0	17.564	1.789	2383.034	0.07%	98.64%
68.0	17.125	1.757	2384.792	0.07%	98.71%
69.0	16.752	1.728	2386.52	0.07%	98.78%
70.0	16.372	1.701	2388.221	0.07%	98.85%
71.0	15.984	1.672	2389.893	0.07%	98.92%
72.0	15.582	1.641	2391.535	0.06%	98.99%
73.0	15.245	1.612	2393.147	0.06%	99.06%
74.0	14.901	1.585	2394.732	0.06%	99.12%
75.0	14.550	1.556	2396.288	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.199	1.526	2397.814	0.06%	99.25%
77.0	13.848	1.495	2399.309	0.06%	99.31%
78.0	13.548	1.467	2400.776	0.06%	99.37%
79.0	13.175	1.436	2402.212	0.06%	99.43%
80.0	12.765	1.398	2403.61	0.05%	99.49%
81.0	12.407	1.361	2404.971	0.05%	99.54%
82.0	12.070	1.327	2406.299	0.05%	99.60%
83.0	11.748	1.295	2407.593	0.05%	99.65%
84.0	11.470	1.265	2408.858	0.05%	99.71%
85.0	11.207	1.238	2410.096	0.05%	99.76%
86.0	10.988	1.213	2411.309	0.05%	99.81%
87.0	10.783	1.191	2412.501	0.05%	99.86%
88.0	10.585	1.171	2413.671	0.05%	99.91%
89.0	10.432	1.152	2414.823	0.04%	99.95%
90.0	10.388	1.141	2415.965	0.04%	100.00%

Zonal flux distribution table

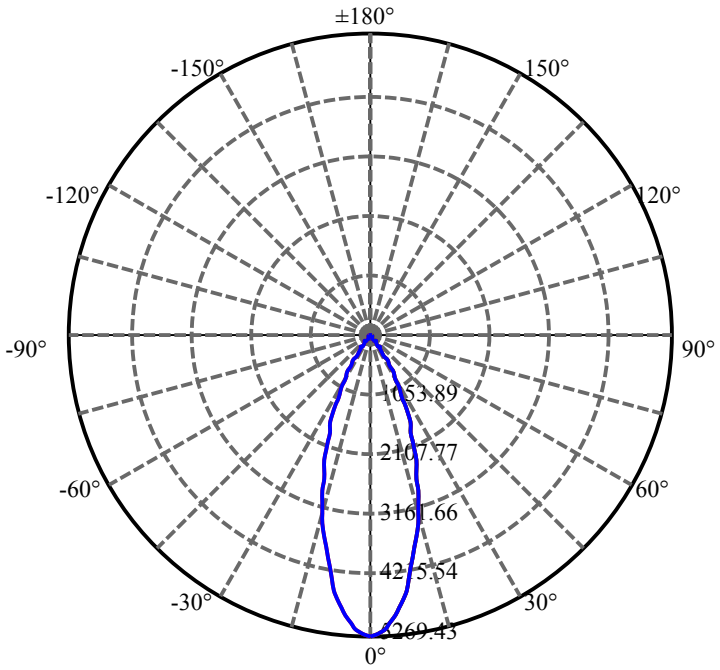
ZONAL LUMEN SUMMARY

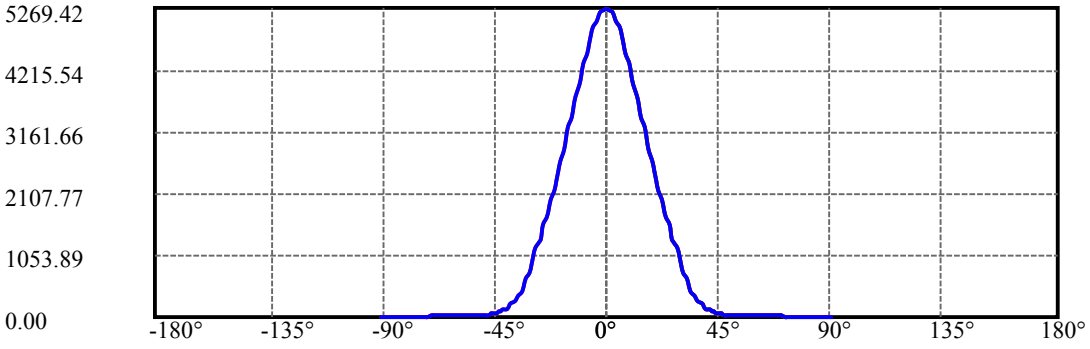
Zone	Lumens	%Lamp	%Fixt
0-30	2035.57	79.48%	84.25%
0-40	2292.26	89.51%	94.88%
0-60	2369.77	92.53%	98.09%
0-90	2414.82	94.29%	99.95%
0-120	2414.82	94.29%	99.95%
0-180	2415.96	94.34%	100.00%
60-90	45.05	1.76%	1.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.12	1932.77	75.47%	80.00%

ZONAL LUMEN SUMMARY

0-10	445.01
10-20	884.81
20-30	705.74
30-40	256.70
40-50	53.45
50-60	24.06
60-70	18.45
70-80	15.39
80-90	11.21
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):

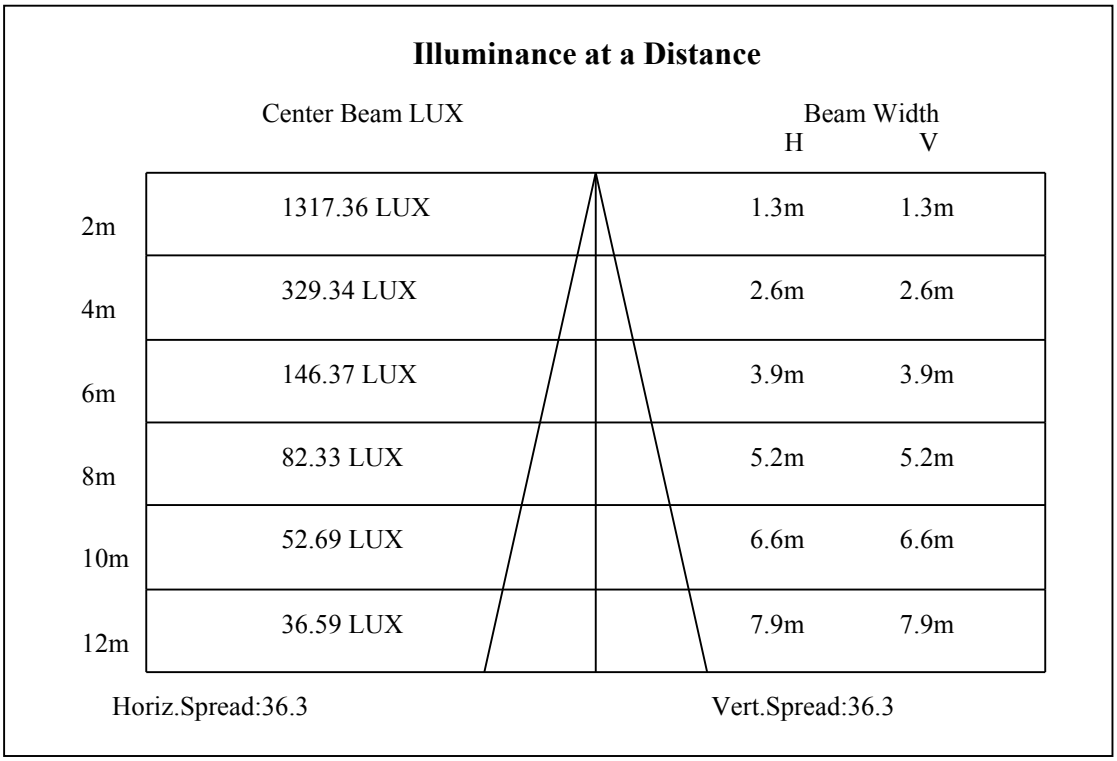
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:33.0 Right:33.0
:C90/270Left:33.0 Right:33.0

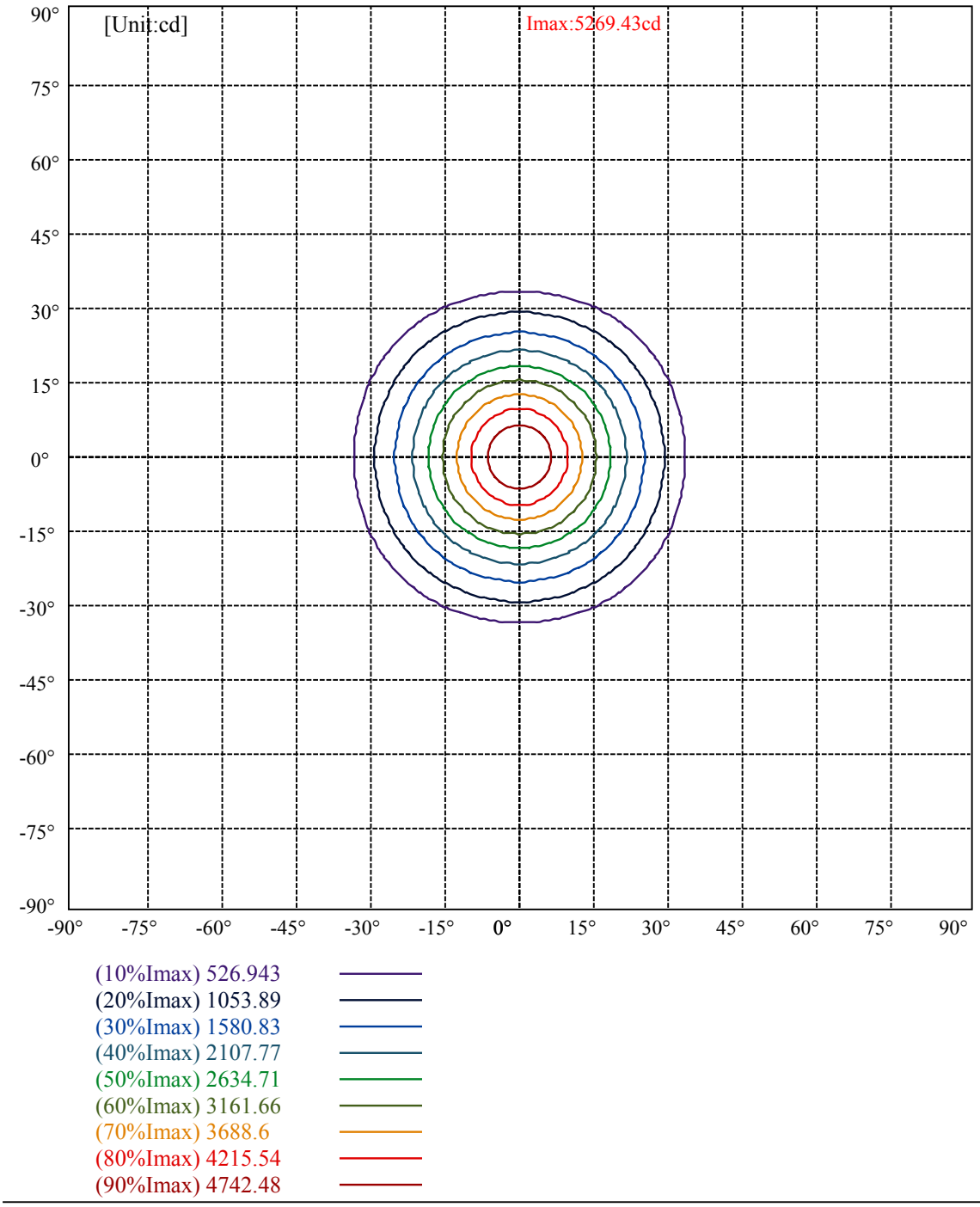
Beam Angle(50%Imax):C0/180Left:18.1 Right:18.1
:C90/270Left:18.1 Right:18.1

Lux distance Curve



Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

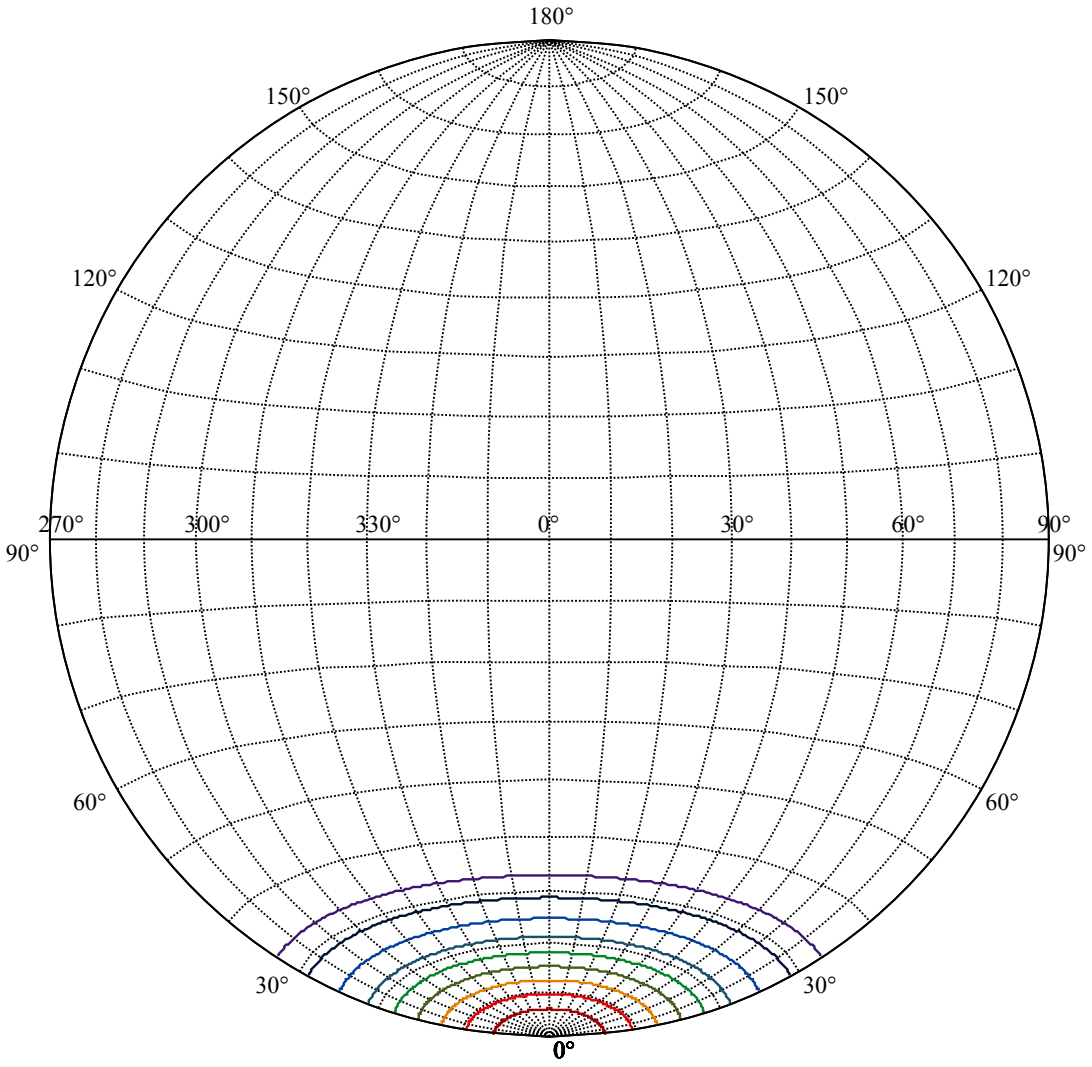


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



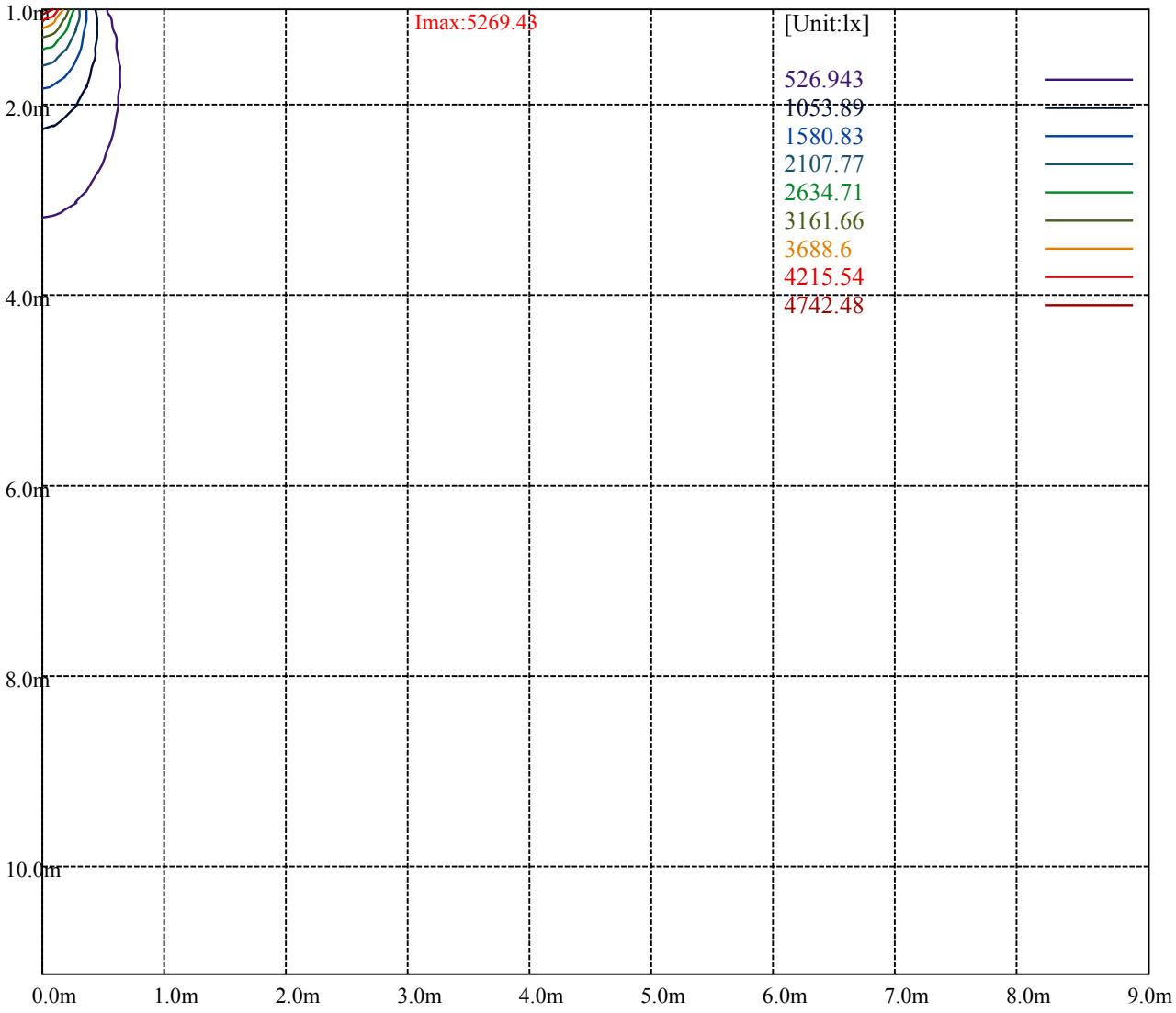
House [Unit:cd] Road

Imax:5269.43

(10%Imax) 526.943
(20%Imax) 1053.89
(30%Imax) 1580.83
(40%Imax) 2107.77
(50%Imax) 2634.71
(60%Imax) 3161.66
(70%Imax) 3688.6
(80%Imax) 4215.54
(90%Imax) 4742.48

Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/8/7
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

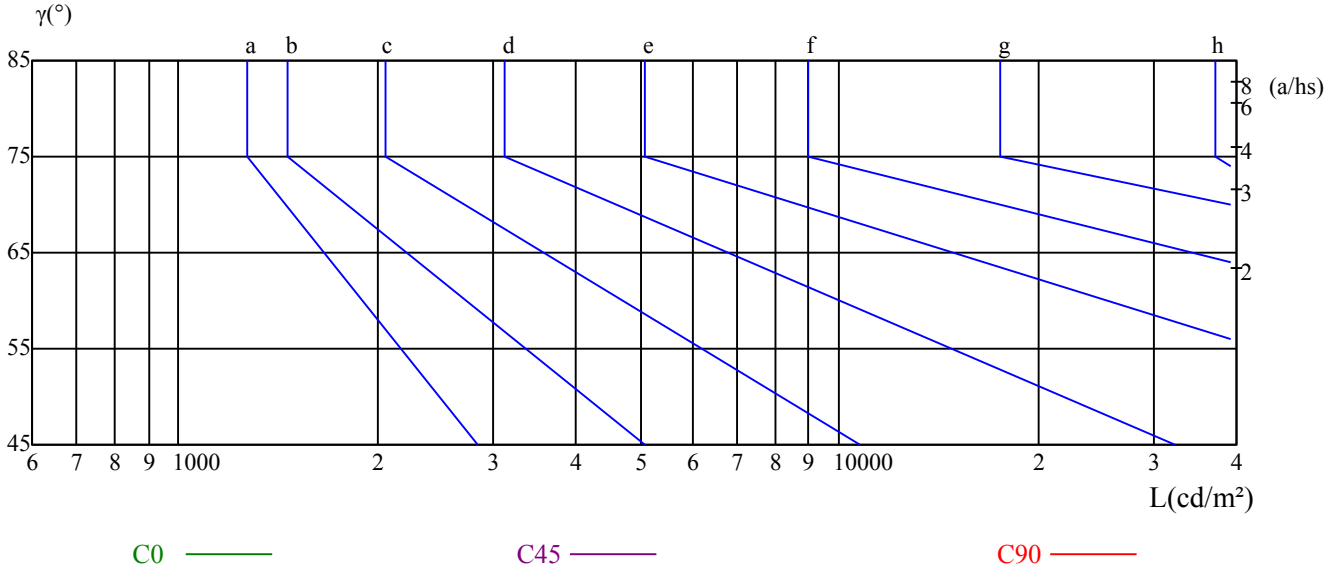
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

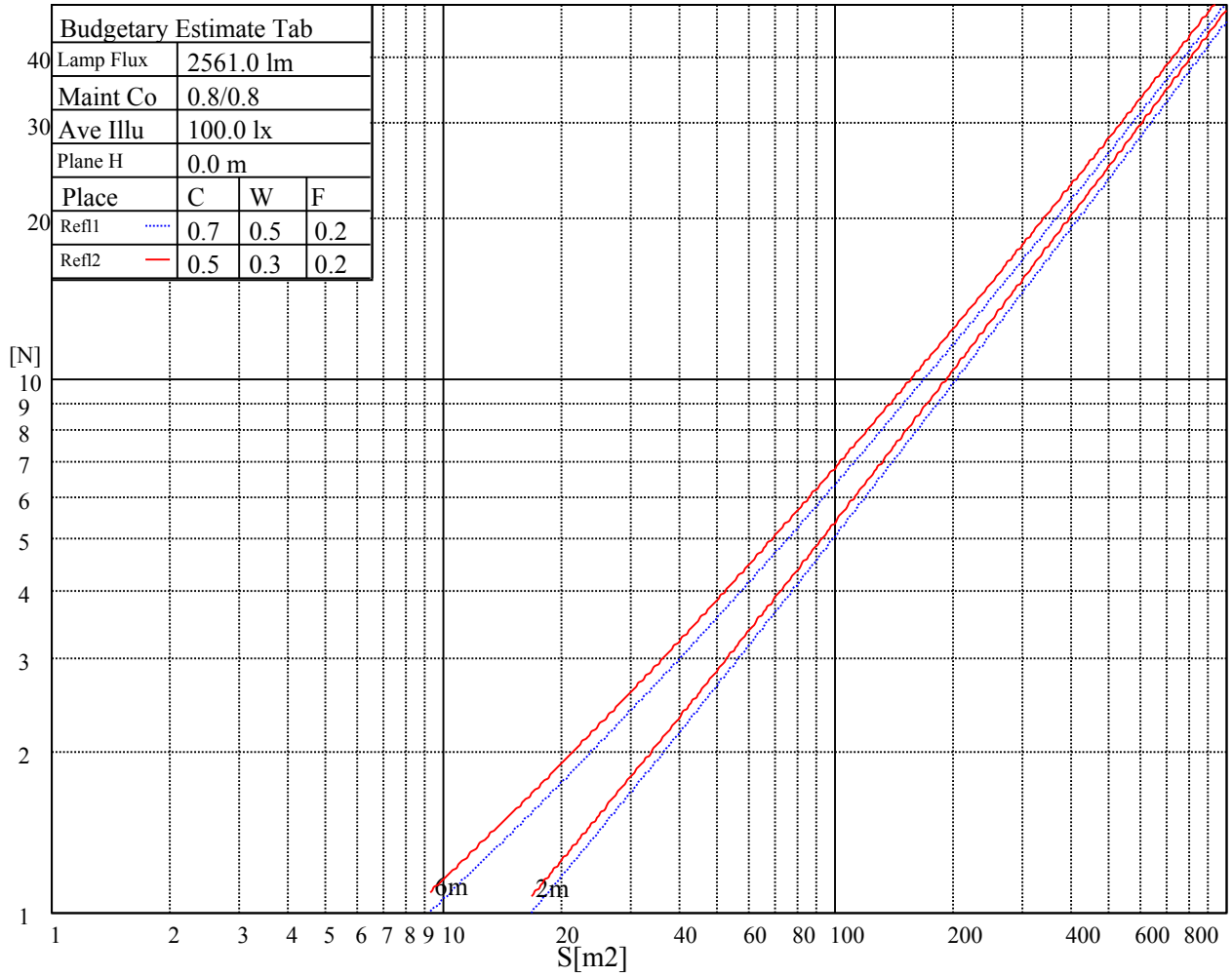
Luminance Limitting Curve



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

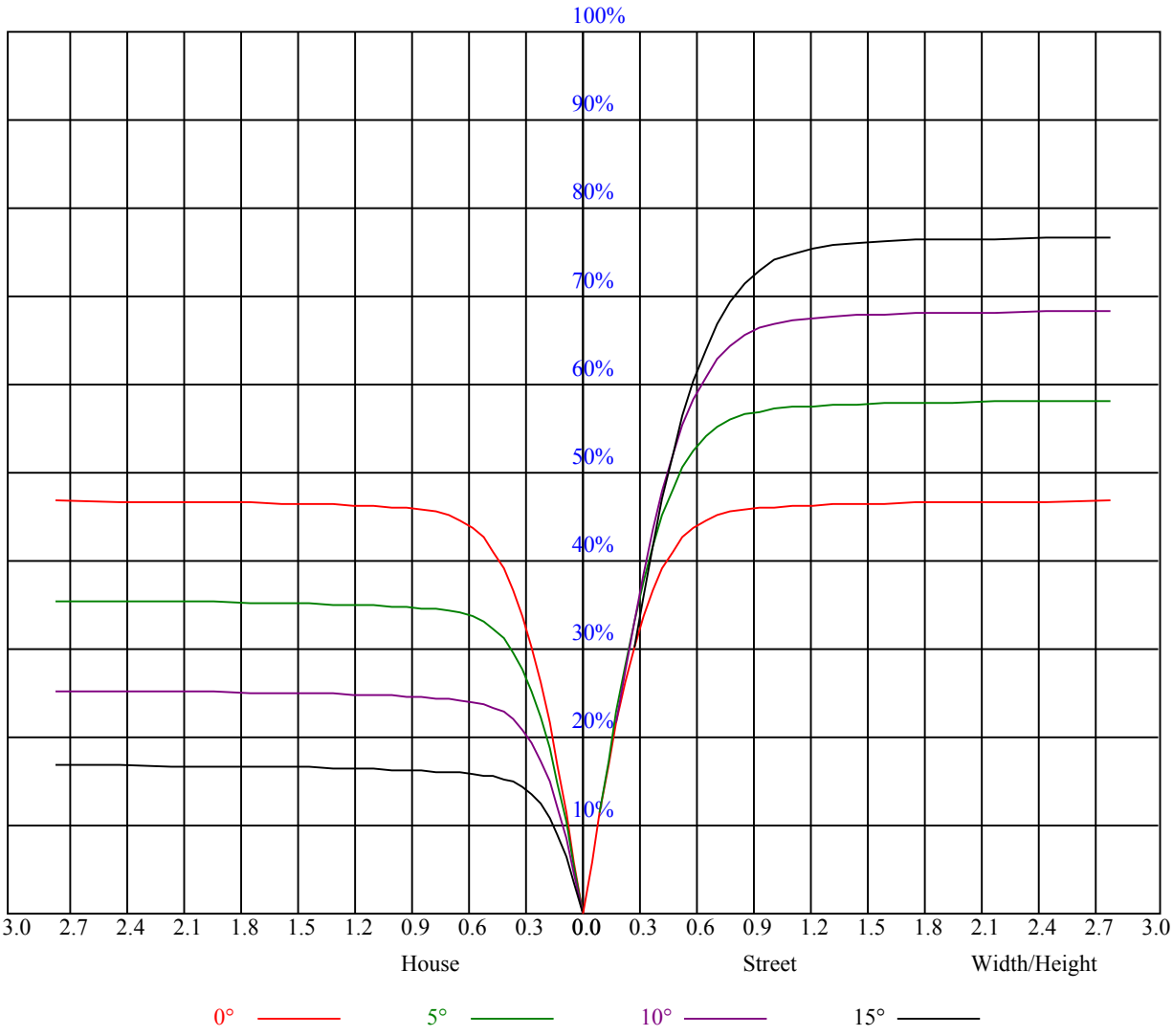


Equipment: GMS1980 Date: 2024/8/7 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

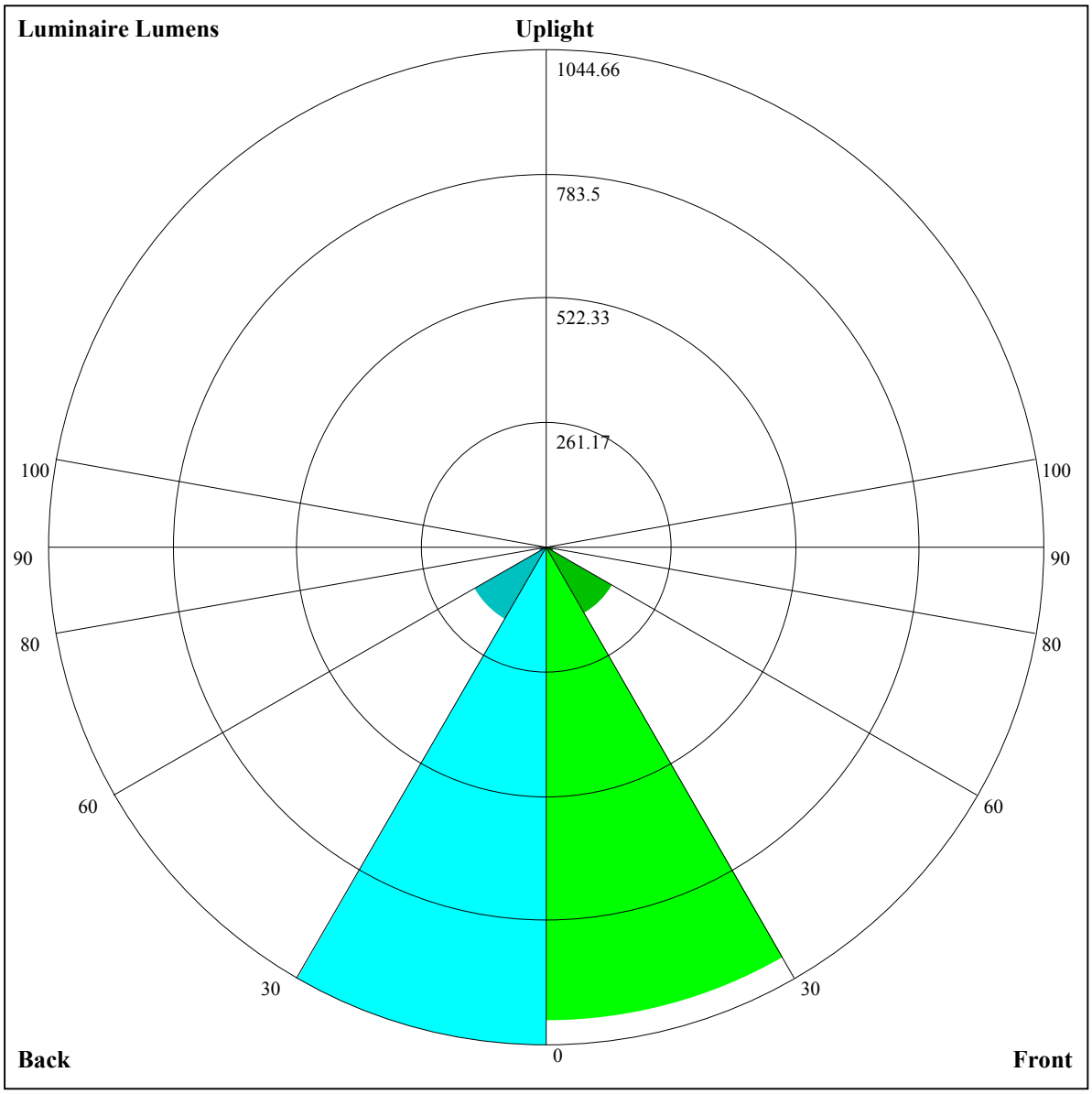
Utilization factor table for indoor luminaire

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	0.99	0.99	0.97	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89
2	0.98	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.87	0.88	0.87	0.85	0.84
3	0.93	0.89	0.85	0.91	0.88	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.79
4	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.64
8	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.62
9	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/8/7	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=993.49,FM=160.33,FH=16.72,FVH=6.15
BL=1044.66,BM=177.16,BH=17.1,BVH=6.22
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	5265.91	5188.66	5115.51	5001.39	4882.59	4752.67	4564.23	4415.58	4256.40
45.0	5280.54	5275.86	5229.63	5167.60	5064.60	4966.86	4850.40	4684.20	4541.99
90.0	5279.96	5257.13	5180.47	5122.53	5025.39	4911.27	4760.28	4613.39	4467.67
135.0	5251.28	5294.00	5277.62	5238.99	5165.25	5092.69	4978.57	4866.20	4689.47
180.0	5265.91	5298.10	5279.96	5236.65	5171.11	5097.95	4997.88	4875.57	4706.44
225.0	5280.54	5237.24	5190.42	5140.67	5059.33	4929.41	4803.59	4656.11	4499.85
270.0	5279.96	5275.28	5214.41	5148.28	5085.66	4968.03	4856.84	4718.73	4538.48
315.0	5251.28	5182.23	5099.12	4992.61	4876.74	4750.92	4560.72	4405.05	4239.43
360.0	5265.91	5188.66	5115.51	5001.39	4882.59	4752.67	4564.23	4415.58	4256.40

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4089.03	3874.83	3698.68	3528.38	3353.40	3139.21	2966.56	2789.83	2585.00
45.0	4350.04	4187.34	4018.80	3802.27	3637.82	3471.03	3297.80	3072.49	2894.00
90.0	4308.48	4087.86	3933.36	3759.54	3547.11	3377.39	3150.32	2971.83	2790.41
135.0	4544.92	4383.98	4178.57	4008.26	3840.89	3620.26	3449.37	3265.61	3040.89
180.0	4553.69	4388.08	4167.45	3990.12	3812.80	3598.61	3420.70	3247.47	3015.14
225.0	4289.76	4120.63	3909.95	3743.74	3571.69	3353.40	3174.32	2994.07	2809.14
270.0	4379.30	4218.95	4054.50	3846.16	3677.61	3514.33	3340.52	3131.60	2957.79
315.0	4076.15	3860.20	3696.34	3535.99	3369.20	3161.44	2992.31	2821.43	2655.81
360.0	4089.03	3874.83	3698.68	3528.38	3353.40	3139.21	2966.56	2789.83	2585.00

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2434.01	2285.36	2105.70	1964.07	1799.04	1669.12	1540.96	1422.16	1153.60
45.0	2717.84	2552.22	2356.76	2208.11	2063.56	1885.07	1746.37	1616.45	1459.02
90.0	2575.05	2417.04	2264.29	2116.23	1928.37	1782.65	1650.39	1526.91	1157.75
135.0	2860.05	2682.73	2480.83	2321.65	2176.51	2028.45	1849.37	1710.09	1579.00
180.0	2835.47	2652.88	2478.49	2282.44	2134.96	1986.31	1841.76	1683.75	1551.49
225.0	2588.51	2425.23	2267.22	2117.40	1928.37	1790.26	1656.83	1501.16	1291.06
270.0	2773.44	2559.25	2390.70	2211.62	2065.32	1917.84	1781.48	1621.72	1490.63
315.0	2456.25	2306.43	2120.33	1981.05	1840.01	1677.31	1547.39	1422.74	1143.88
360.0	2434.01	2285.36	2105.70	1964.07	1799.04	1669.12	1540.96	1422.16	1153.60

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1153.60	1031.81	909.21	756.99	640.47	538.70	452.20	363.66	306.13
45.0	1339.64	1219.67	1068.68	948.71	824.64	704.67	569.48	477.60	402.11
90.0	1157.75	1127.14	1008.28	854.55	733.17	592.25	495.74	415.22	332.70
135.0	1449.66	1291.65	1165.24	1011.33	887.26	764.36	622.74	523.83	438.98
180.0	1439.71	1283.46	1164.66	1039.42	873.21	746.22	599.33	502.77	420.84
225.0	1139.43	1109.29	983.76	855.13	694.95	581.54	482.87	404.68	328.43
270.0	1363.05	1243.66	1091.50	962.75	828.15	673.07	564.80	467.07	374.02
315.0	1143.88	1021.80	893.17	769.98	626.02	523.13	434.30	363.78	293.08
360.0	1153.60	1031.81	909.21	756.99	640.47	538.70	452.20	363.66	306.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	257.38	208.05	175.63	141.62	120.03	101.42	86.32	70.87	61.57
45.0	339.49	298.52	298.52	190.08	153.39	129.63	104.58	88.25	74.91
90.0	279.97	234.73	197.05	157.43	132.03	111.08	93.28	75.14	64.20
135.0	368.75	299.11	299.11	241.93	175.86	141.39	118.98	100.01	80.94
180.0	356.46	302.03	302.03	205.06	172.52	140.22	118.33	100.01	81.81
225.0	278.33	235.44	200.21	162.81	137.59	111.90	94.69	80.64	66.83
270.0	315.49	303.21	244.27	179.84	151.11	121.61	103.06	86.79	73.27
315.0	246.15	199.74	169.07	142.50	114.82	96.80	81.99	67.71	58.87
360.0	257.38	208.05	175.63	141.62	120.03	101.42	86.32	70.87	61.57

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	54.43	48.52	44.01	39.62	36.81	33.71	31.72	30.02	28.21
45.0	64.37	54.37	48.22	43.31	39.50	35.76	33.12	31.08	29.38
90.0	55.71	47.64	42.78	39.09	35.41	32.95	30.90	28.85	27.45
135.0	69.12	59.75	50.97	45.59	41.38	37.22	34.59	32.30	30.43
180.0	70.58	61.57	53.20	47.87	43.72	39.62	36.87	34.41	32.36
225.0	58.52	51.79	45.41	41.55	38.33	35.58	33.18	30.84	29.20
270.0	61.62	53.78	47.64	43.13	38.68	35.99	33.47	30.96	29.26
315.0	52.09	46.64	41.26	37.98	35.29	32.83	30.31	28.73	26.86
360.0	54.43	48.52	44.01	39.62	36.81	33.71	31.72	30.02	28.21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.92	25.75	24.52	23.64	22.77	21.83	21.19	20.54	19.96
45.0	27.51	26.16	24.81	23.88	23.00	22.00	21.30	20.72	19.96
90.0	26.10	24.99	23.76	22.94	22.18	21.48	20.66	20.13	19.43
135.0	28.44	27.10	25.81	24.81	23.58	22.77	21.95	21.13	20.54
180.0	30.20	28.73	27.39	26.22	24.99	24.05	23.17	22.18	21.54
225.0	27.68	26.16	25.11	24.17	23.00	22.18	21.30	20.66	20.07
270.0	27.51	26.22	25.11	24.11	23.12	22.30	21.59	20.95	20.37
315.0	25.63	24.58	23.47	22.53	21.77	21.07	20.37	19.78	19.20
360.0	26.92	25.75	24.52	23.64	22.77	21.83	21.19	20.54	19.96

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.25	18.79	18.32	17.91	17.32	16.97	16.50	16.15	15.74
45.0	19.43	18.90	18.43	17.97	17.62	17.21	16.85	16.44	16.09
90.0	18.96	18.55	18.02	17.67	17.26	16.80	16.44	16.15	15.80
135.0	19.84	19.31	18.84	18.26	17.91	17.50	17.09	16.62	16.33
180.0	20.66	20.07	19.43	18.96	18.32	17.85	17.44	17.03	16.50
225.0	19.49	18.84	18.43	17.91	17.50	17.03	16.68	16.33	15.92
270.0	19.66	19.08	18.67	18.14	17.73	17.21	16.85	16.50	16.09
315.0	18.67	18.14	17.73	17.32	16.85	16.44	16.15	15.74	15.39
360.0	19.25	18.79	18.32	17.91	17.32	16.97	16.50	16.15	15.74

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.33	15.04	14.69	14.28	13.99	13.64	13.34	12.93	12.52
45.0	15.68	15.27	14.98	14.63	14.22	13.99	13.69	13.34	12.87
90.0	15.33	15.10	14.81	14.46	14.05	13.75	13.46	13.05	12.64
135.0	15.92	15.57	15.22	14.86	14.57	14.10	13.87	13.52	13.11
180.0	16.15	15.74	15.39	15.04	14.63	14.22	13.87	13.58	13.11
225.0	15.51	15.16	14.75	14.40	14.10	13.69	13.34	12.99	12.58
270.0	15.68	15.39	15.04	14.69	14.28	14.05	13.75	13.34	12.93
315.0	15.04	14.69	14.34	14.05	13.75	13.34	13.05	12.64	12.35
360.0	15.33	15.04	14.69	14.28	13.99	13.64	13.34	12.93	12.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.17	11.88	11.59	11.35	11.12	10.94	10.71	10.53	10.42
45.0	12.58	12.17	11.88	11.53	11.29	11.06	10.89	10.59	10.42
90.0	12.23	12.00	11.65	11.41	11.12	10.94	10.71	10.53	10.36
135.0	12.76	12.35	12.00	11.70	11.41	11.12	10.94	10.77	10.59
180.0	12.76	12.35	12.00	11.70	11.41	11.18	10.94	10.77	10.59
225.0	12.23	11.94	11.65	11.35	11.12	10.89	10.65	10.48	10.30
270.0	12.52	12.17	11.82	11.53	11.24	11.00	10.83	10.59	10.42
315.0	12.00	11.70	11.41	11.18	10.94	10.77	10.59	10.42	10.36
360.0	12.17	11.88	11.59	11.35	11.12	10.94	10.71	10.53	10.42

Intensity data(cd)

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