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NT

Client:
LumCAT: 2-2684-L
Luminaire: 92.70.412.00
Report No: 2024228-B031
Ballast type: AC

Test No: 2024228-C031	Voltage(V): 35.350
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.541
Lamp flux(lm): 2613.0	Power (W): 19.124
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2233.03, Efficiency(%): 85.46% , Luminous Efficacy(lm/W): 116.77
Central intensity(cd): 5389.103, Maximum intensity(cd): 5389.103
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=33.2
[C90/270]Total=33.2
Field angle(10%Imax): [C0/180]Total=63.8
[C90/270]Total=63.8
Maximum s/h(1/2): C0_180=0.54 C90_270=0.54
Maximum s/h(1/4): C0_180=0.58 C90_270=0.58
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.46%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.943%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5389.103	0.000	0	0.00%	0.00%
1.0	5360.354	5.143	5.143	0.20%	0.23%
2.0	5304.172	15.307	20.45	0.59%	0.92%
3.0	5214.486	25.157	45.607	0.96%	2.04%
4.0	5108.122	34.553	80.16	1.32%	3.59%
5.0	4972.862	43.368	123.528	1.66%	5.53%
6.0	4843.234	51.586	175.114	1.97%	7.84%
7.0	4700.220	59.236	234.351	2.27%	10.49%
8.0	4524.140	66.017	300.367	2.53%	13.45%
9.0	4336.429	71.810	372.178	2.75%	16.67%
10.0	4149.670	76.796	448.974	2.94%	20.11%
11.0	3962.836	81.061	530.034	3.10%	23.74%
12.0	3744.474	84.252	614.286	3.22%	27.51%
13.0	3506.800	86.054	700.341	3.29%	31.36%
14.0	3283.756	86.919	787.259	3.33%	35.26%
15.0	3049.154	86.941	874.2	3.33%	39.15%
16.0	2841.399	86.313	960.513	3.30%	43.01%
17.0	2602.188	84.771	1045.284	3.24%	46.81%
18.0	2413.380	82.696	1127.98	3.16%	50.51%
19.0	2226.913	80.732	1208.712	3.09%	54.13%
20.0	2070.146	78.648	1287.36	3.01%	57.65%
21.0	1902.040	76.274	1363.634	2.92%	61.07%
22.0	1742.785	73.244	1436.878	2.80%	64.35%
23.0	1598.893	70.117	1506.996	2.68%	67.49%
24.0	1442.389	66.493	1573.489	2.54%	70.46%
25.0	1302.096	62.404	1635.893	2.39%	73.26%
26.0	1198.599	59.029	1694.922	2.26%	75.90%
27.0	1091.145	56.019	1750.941	2.14%	78.41%
28.0	979.564	52.426	1803.367	2.01%	80.76%
29.0	854.253	47.978	1851.345	1.84%	82.91%
30.0	737.727	42.983	1894.328	1.64%	84.83%
31.0	629.102	38.037	1932.365	1.46%	86.54%
32.0	530.960	33.234	1965.599	1.27%	88.02%
33.0	437.112	28.520	1994.119	1.09%	89.30%
34.0	362.079	24.186	2018.305	0.93%	90.38%
35.0	307.653	20.799	2039.104	0.80%	91.32%
36.0	267.543	18.314	2057.419	0.70%	92.14%
37.0	226.497	16.113	2073.531	0.62%	92.86%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	187.601	13.822	2087.353	0.53%	93.48%
39.0	147.418	11.435	2098.789	0.44%	93.99%
40.0	125.267	9.510	2108.299	0.36%	94.41%
41.0	105.955	8.234	2116.533	0.32%	94.78%
42.0	89.452	7.099	2123.632	0.27%	95.10%
43.0	76.291	6.140	2129.772	0.23%	95.38%
44.0	67.125	5.413	2135.185	0.21%	95.62%
45.0	59.583	4.870	2140.054	0.19%	95.84%
46.0	53.651	4.428	2144.483	0.17%	96.03%
47.0	49.188	4.090	2148.573	0.16%	96.22%
48.0	45.567	3.831	2152.403	0.15%	96.39%
49.0	42.729	3.626	2156.029	0.14%	96.55%
50.0	39.861	3.443	2159.473	0.13%	96.71%
51.0	37.652	3.279	2162.752	0.13%	96.85%
52.0	35.648	3.145	2165.897	0.12%	96.99%
53.0	33.855	3.023	2168.921	0.12%	97.13%
54.0	32.092	2.907	2171.827	0.11%	97.26%
55.0	30.344	2.787	2174.614	0.11%	97.38%
56.0	28.947	2.679	2177.294	0.10%	97.50%
57.0	27.593	2.585	2179.879	0.10%	97.62%
58.0	26.357	2.495	2182.374	0.10%	97.73%
59.0	25.113	2.406	2184.78	0.09%	97.84%
60.0	24.031	2.322	2187.102	0.09%	97.94%
61.0	23.058	2.247	2189.349	0.09%	98.04%
62.0	22.107	2.176	2191.525	0.08%	98.14%
63.0	21.163	2.104	2193.63	0.08%	98.24%
64.0	20.256	2.032	2195.662	0.08%	98.33%
65.0	19.517	1.968	2197.63	0.08%	98.41%
66.0	18.771	1.910	2199.541	0.07%	98.50%
67.0	18.054	1.852	2201.392	0.07%	98.58%
68.0	17.440	1.798	2203.19	0.07%	98.66%
69.0	16.847	1.749	2204.94	0.07%	98.74%
70.0	16.335	1.704	2206.644	0.07%	98.82%
71.0	15.757	1.659	2208.302	0.06%	98.89%
72.0	15.238	1.612	2209.914	0.06%	98.96%
73.0	14.792	1.570	2211.484	0.06%	99.04%
74.0	14.389	1.534	2213.019	0.06%	99.10%
75.0	13.958	1.498	2214.516	0.06%	99.17%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.541	1.460	2215.976	0.06%	99.24%
77.0	13.211	1.426	2217.402	0.05%	99.30%
78.0	12.824	1.394	2218.796	0.05%	99.36%
79.0	12.487	1.360	2220.156	0.05%	99.42%
80.0	12.078	1.324	2221.48	0.05%	99.48%
81.0	11.756	1.289	2222.769	0.05%	99.54%
82.0	11.419	1.257	2224.026	0.05%	99.60%
83.0	11.075	1.223	2225.249	0.05%	99.65%
84.0	10.724	1.188	2226.436	0.05%	99.70%
85.0	10.424	1.154	2227.591	0.04%	99.76%
86.0	10.168	1.126	2228.716	0.04%	99.81%
87.0	9.978	1.103	2229.819	0.04%	99.86%
88.0	9.788	1.083	2230.901	0.04%	99.90%
89.0	9.685	1.067	2231.969	0.04%	99.95%
90.0	9.627	1.059	2233.028	0.04%	100.00%

Zonal flux distribution table

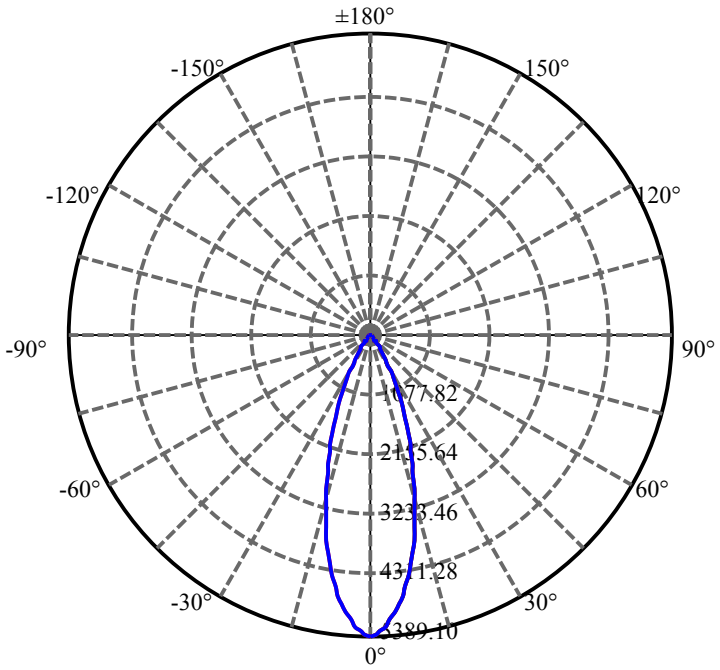
ZONAL LUMEN SUMMARY

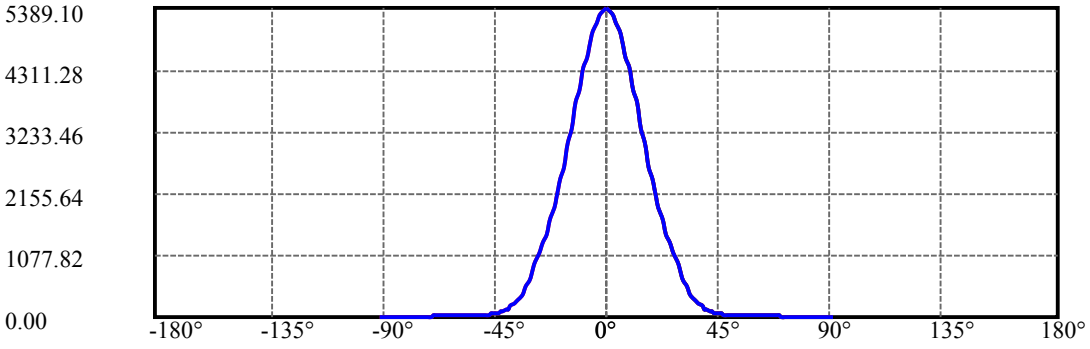
Zone	Lumens	%Lamp	%Fixt
0-30	1894.33	72.50%	84.83%
0-40	2108.30	80.68%	94.41%
0-60	2187.10	83.70%	97.94%
0-90	2231.97	85.42%	99.95%
0-120	2231.97	85.42%	99.95%
0-180	2233.03	85.46%	100.00%
60-90	44.87	1.72%	2.01%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.68	1786.42	68.37%	80.00%

ZONAL LUMEN SUMMARY

0-10	448.97
10-20	838.39
20-30	606.97
30-40	213.97
40-50	51.17
50-60	27.63
60-70	19.54
70-80	14.84
80-90	10.49
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):

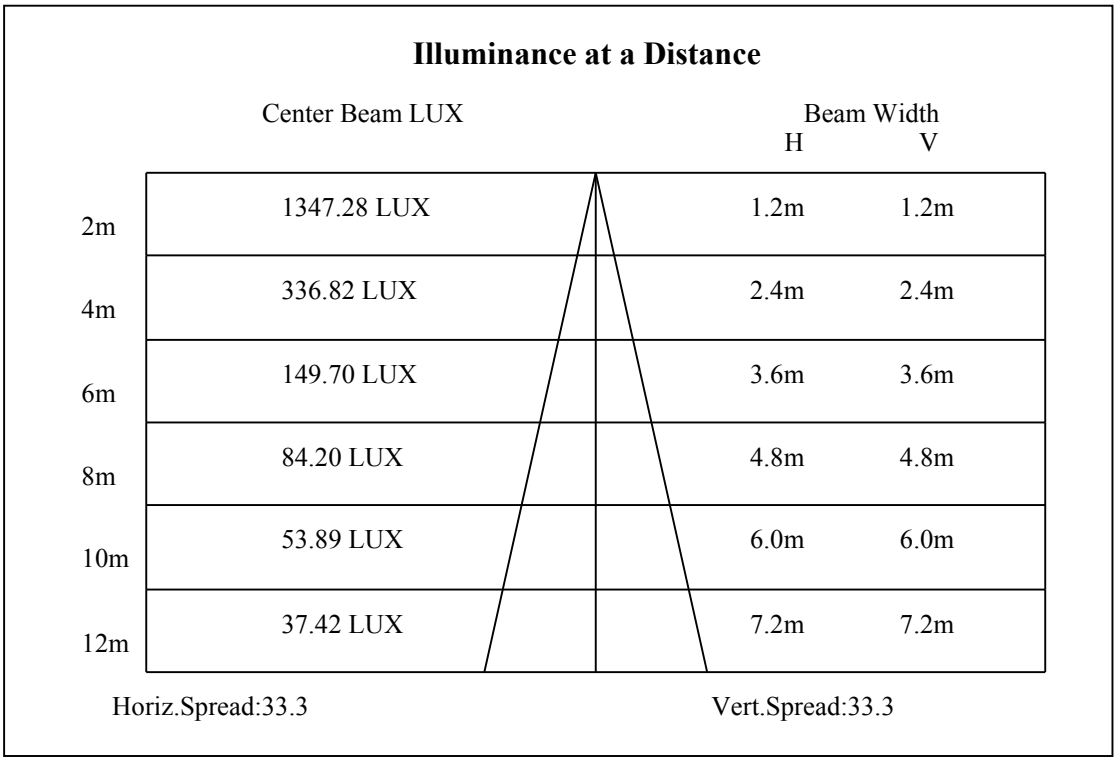
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:31.9 Right:31.9
:C90/270Left:31.9 Right:31.9

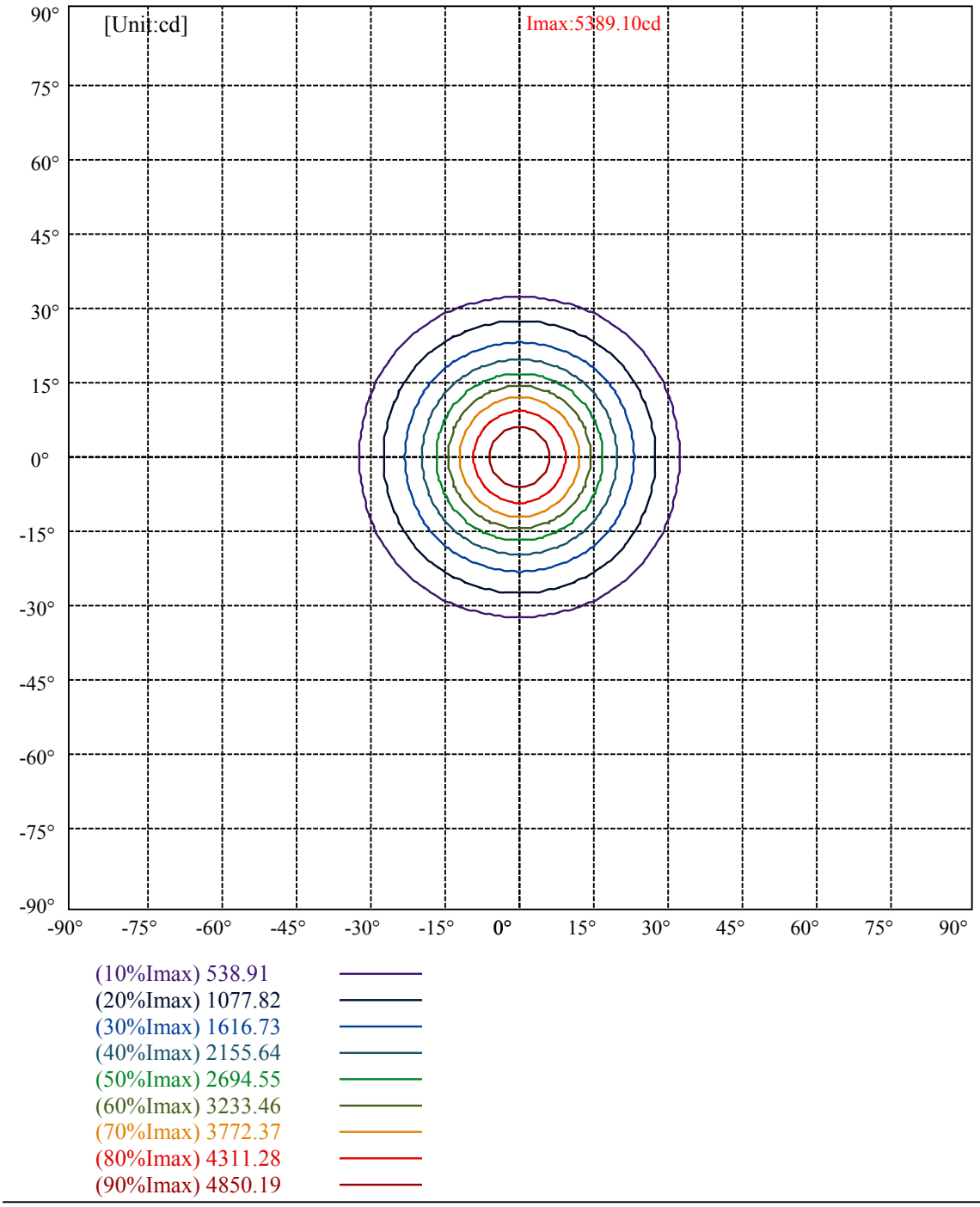
Beam Angle(50%Imax):C0/180Left:16.6 Right:16.6
:C90/270Left:16.6 Right:16.6

Lux distance Curve



Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

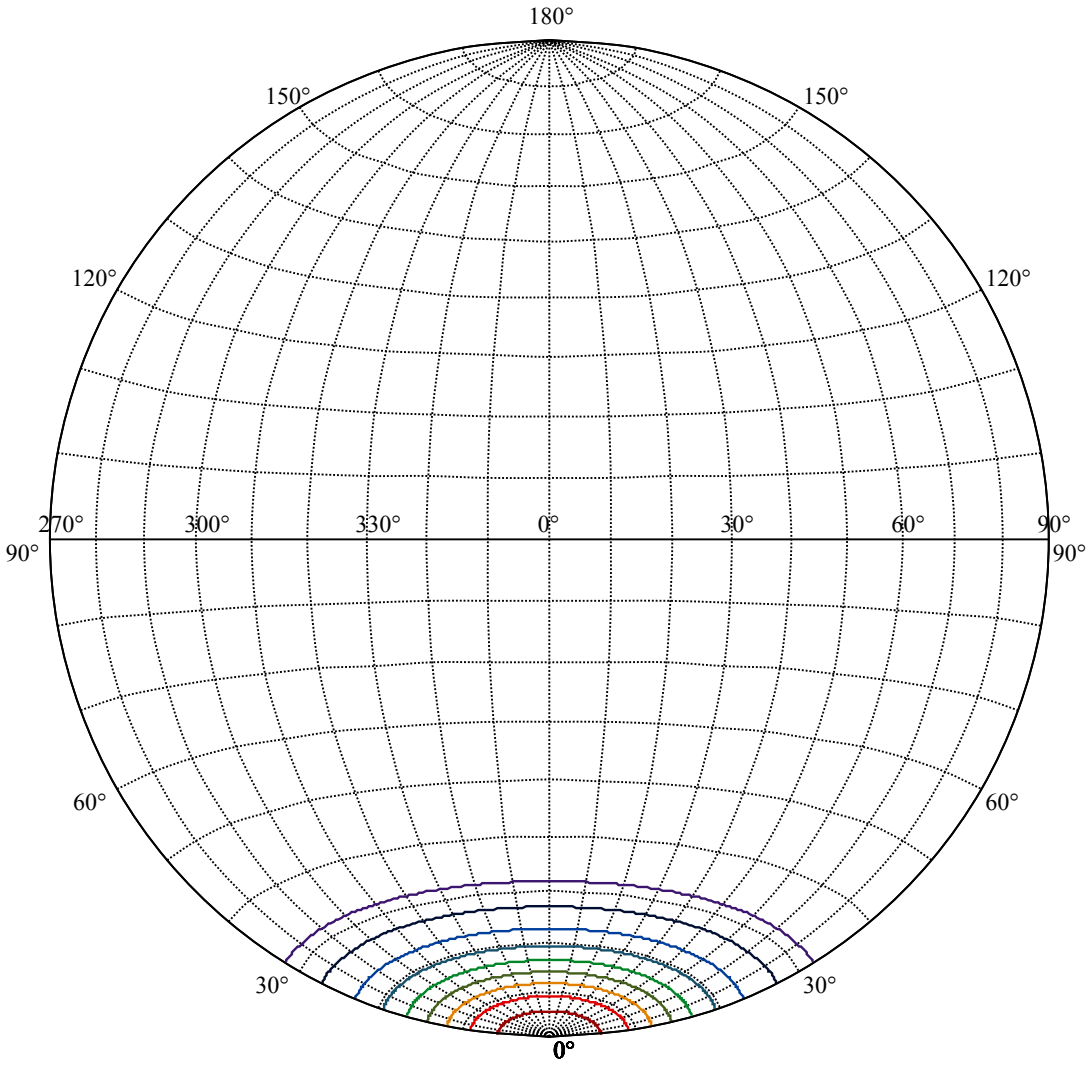


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



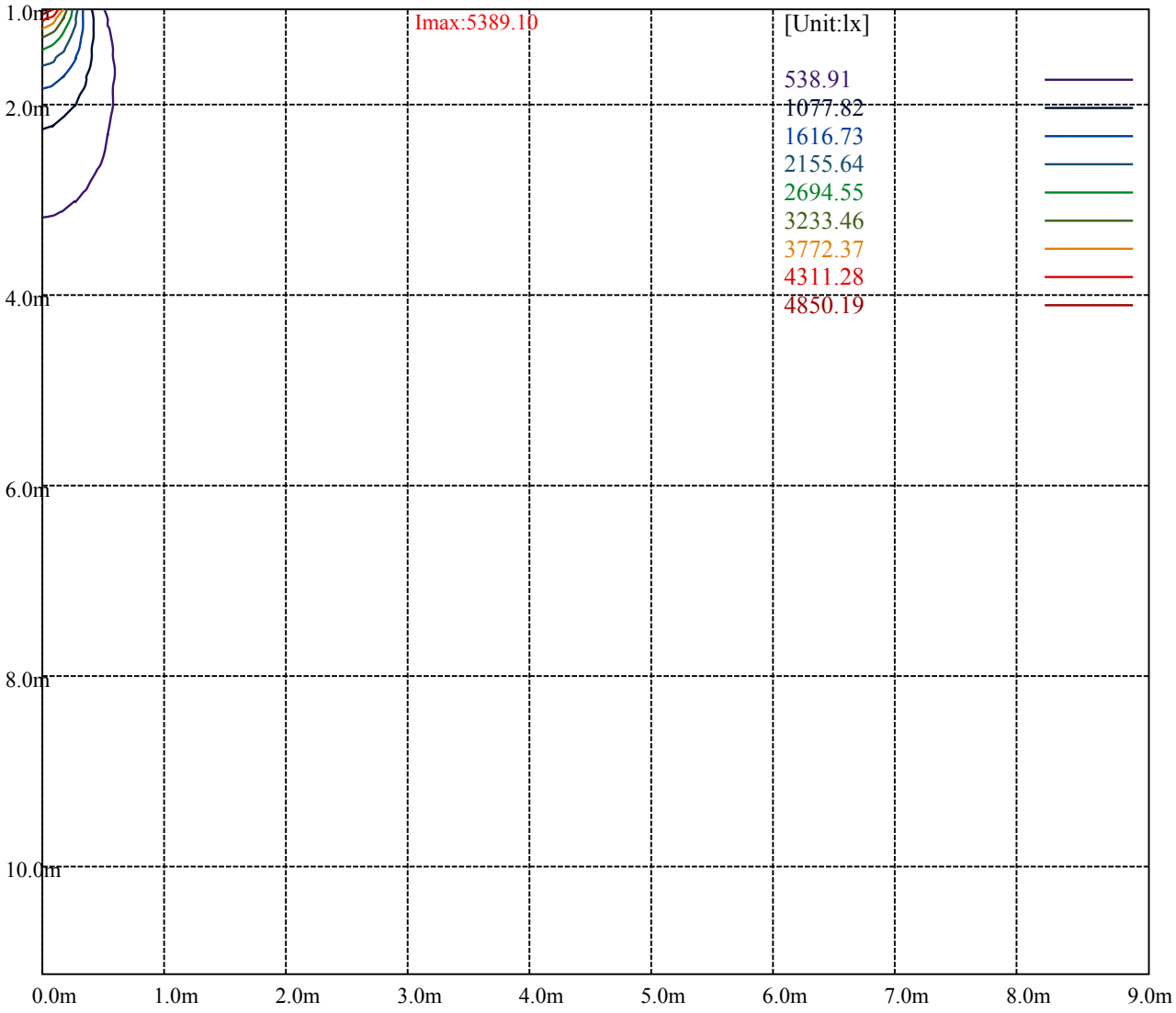
House [Unit:cd] Road

Imax:5389.10

(10%Imax) 538.91
(20%Imax) 1077.82
(30%Imax) 1616.73
(40%Imax) 2155.64
(50%Imax) 2694.55
(60%Imax) 3233.46
(70%Imax) 3772.37
(80%Imax) 4311.28
(90%Imax) 4850.19

Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 2-2684-L

Luminance Limitting Curve(no luminous side)

Luminance Table

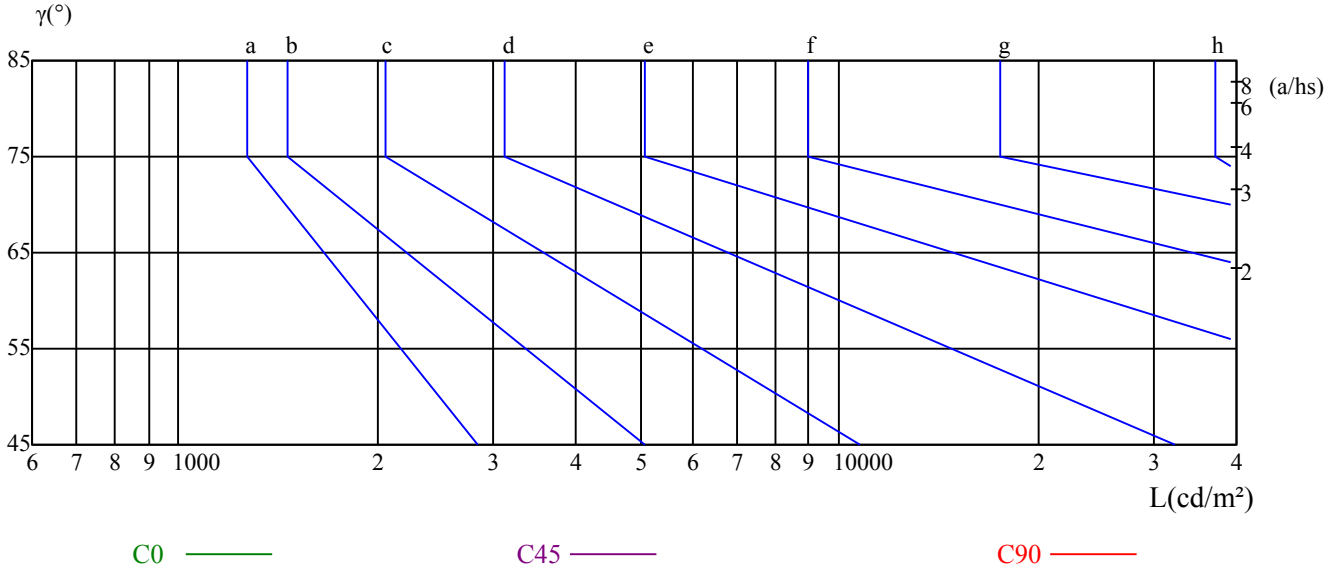
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

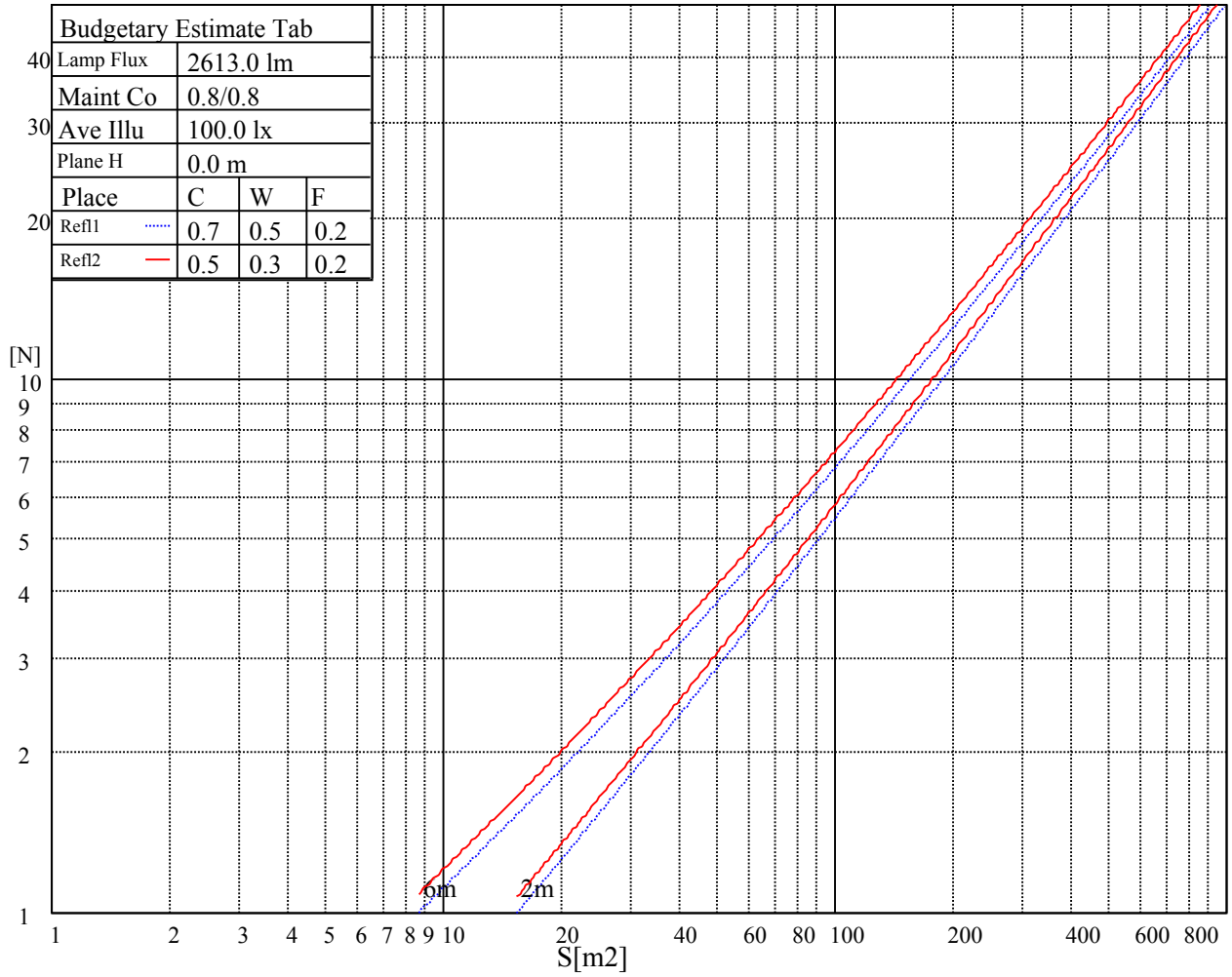


Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

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

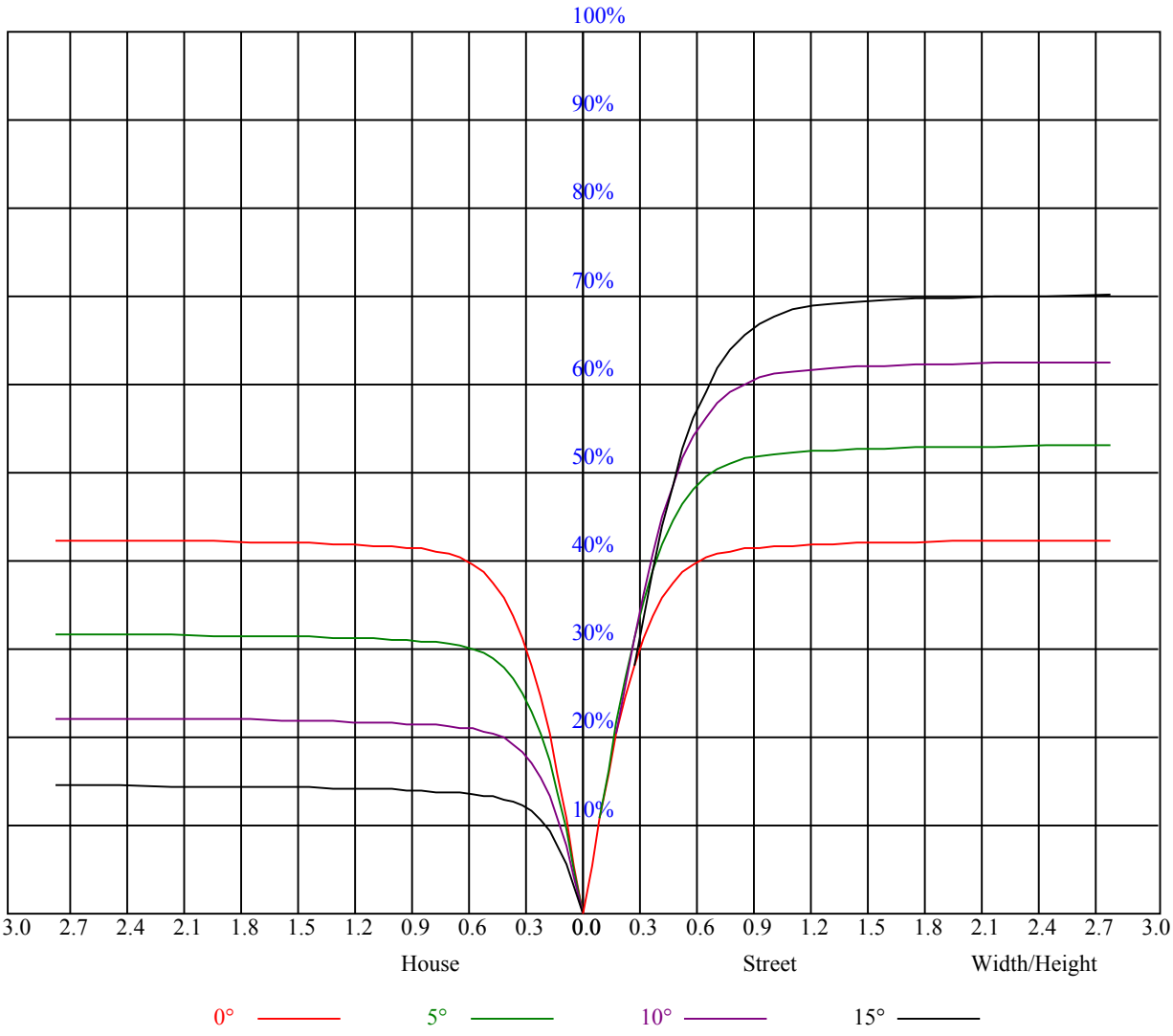


Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

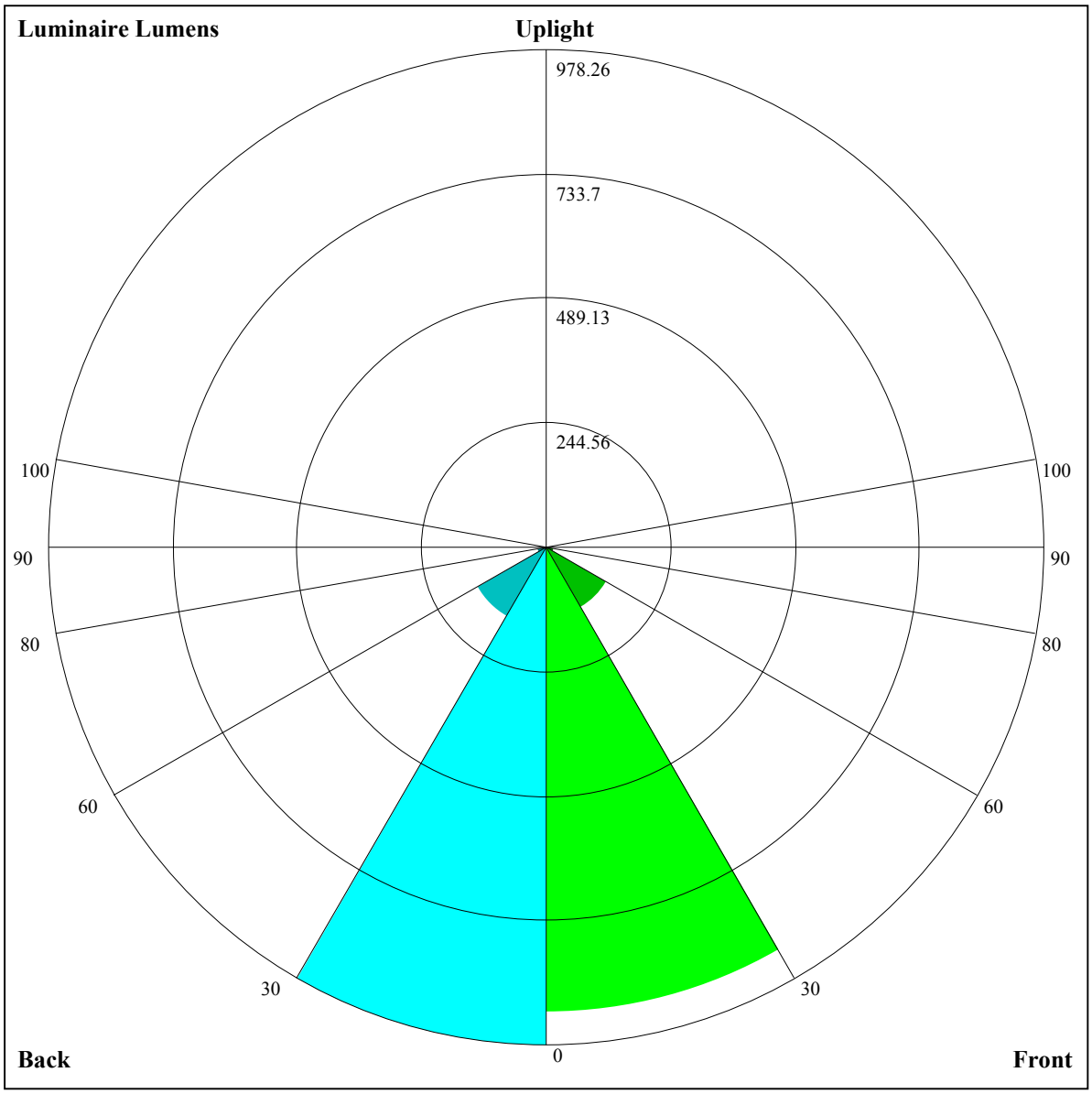
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	0.93	0.91	0.90	0.90	0.88	0.87	0.87	0.86	0.84	0.84	0.83	0.82	0.81
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	0.77	0.76
3	0.84	0.80	0.77	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.76	0.74	0.77	0.75	0.73	0.72
4	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.70	0.74	0.71	0.70	0.68
5	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
6	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
7	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
8	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.57
9	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.54
10	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=913.76,FM=137.54,FH=16.83,FVH=5.72
BL=978.26,BM=158.76,BH=17.54,BVH=5.84
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	5346.67	5229.04	5130.73	5025.97	4898.39	4717.56	4561.89	4392.17	4220.12
45.0	5406.37	5362.48	5279.37	5178.13	5047.04	4923.56	4782.52	4633.87	4435.48
90.0	5388.23	5303.37	5202.71	5100.88	4990.86	4829.34	4680.69	4525.02	4311.41
135.0	5415.15	5400.51	5351.36	5236.07	5133.07	5000.81	4870.30	4723.41	4531.46
180.0	5346.67	5395.83	5408.71	5367.16	5298.10	5178.71	5079.81	4969.79	4835.19
225.0	5406.37	5397.59	5349.60	5250.11	5152.38	5028.31	4903.07	4762.03	4607.53
270.0	5388.23	5412.22	5397.59	5345.50	5233.14	5133.07	5030.07	4907.17	4725.75
315.0	5415.15	5381.79	5313.32	5212.07	5112.00	4971.54	4837.53	4688.30	4526.19
360.0	5346.67	5229.04	5130.73	5025.97	4898.39	4717.56	4561.89	4392.17	4220.12

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3995.39	3794.07	3583.98	3305.41	3090.63	2882.29	2628.89	2437.52	2219.82
45.0	4265.76	4092.54	3902.92	3649.52	3431.23	3210.60	2940.81	2734.23	2492.53
90.0	4143.45	3911.12	3706.29	3493.85	3273.81	3008.70	2798.60	2595.53	2411.19
135.0	4366.42	4199.05	4019.38	3821.58	3558.81	3334.67	3113.46	2897.51	2643.52
180.0	4644.40	4483.47	4316.68	4149.30	3901.17	3688.73	3473.37	3257.42	2994.07
225.0	4397.44	4227.72	4047.47	3852.59	3592.75	3376.81	3163.20	2951.93	2697.95
270.0	4570.08	4357.64	4187.34	4006.51	3743.16	3528.38	3303.65	3091.80	2834.30
315.0	4308.48	4131.75	3938.62	3677.03	3462.83	3239.86	2971.25	2765.25	2524.13
360.0	3995.39	3794.07	3583.98	3305.41	3090.63	2882.29	2628.89	2437.52	2219.82

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2065.32	1917.26	1772.71	1639.27	1485.94	1285.21	1142.71	1116.26	1007.29
45.0	2322.23	2163.64	2011.48	1826.55	1691.94	1560.85	1435.03	1284.63	1168.17
90.0	2201.09	2048.35	1902.04	1720.62	1584.26	1457.85	1158.86	1158.86	1074.24
135.0	2460.34	2254.35	2095.75	1946.52	1767.44	1632.84	1502.92	1344.91	1224.35
180.0	2779.29	2538.18	2364.95	2203.43	2004.45	1850.54	1715.94	1552.66	1429.18
225.0	2505.41	2283.02	2119.74	1967.00	1786.17	1653.32	1525.74	1316.23	1165.83
270.0	2628.30	2432.25	2271.32	2072.93	1917.26	1773.88	1604.16	1480.09	1356.61
315.0	2345.06	2178.27	2023.18	1840.01	1704.82	1576.65	1453.76	1163.13	1163.13
360.0	2065.32	1917.26	1772.71	1639.27	1485.94	1285.21	1142.71	1116.26	1007.29

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	897.91	792.10	663.53	565.56	456.24	383.50	324.04	261.36	219.11
45.0	1051.71	940.52	807.67	701.74	575.92	485.80	409.13	332.47	295.01
90.0	936.95	831.20	728.78	602.08	506.34	423.64	356.75	290.15	245.27
135.0	1103.79	989.09	879.65	745.05	640.88	541.98	437.22	369.34	313.74
180.0	1311.55	1192.16	1045.27	929.40	813.52	702.33	572.99	482.28	405.03
225.0	1136.62	1024.32	913.89	776.65	670.02	567.20	455.95	384.26	325.33
270.0	1212.06	1097.94	958.66	851.56	745.64	639.71	518.57	434.88	366.99
315.0	1078.57	969.19	836.58	729.78	624.26	503.53	422.24	341.89	290.74
360.0	897.91	792.10	663.53	565.56	456.24	383.50	324.04	261.36	219.11

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	183.70	153.56	123.07	104.23	89.13	76.66	64.73	57.53	51.97
45.0	295.01	199.09	159.94	134.31	113.59	97.44	80.76	70.34	62.21
90.0	207.64	174.92	141.33	120.21	102.71	85.27	74.27	63.20	56.88
135.0	301.45	246.03	173.64	147.01	125.00	107.56	89.25	77.60	68.24
180.0	328.95	303.79	303.79	191.72	162.28	137.53	112.48	96.80	83.86
225.0	265.28	225.96	184.52	156.90	133.31	113.94	98.03	81.87	71.81
270.0	311.40	299.11	244.74	181.42	154.27	125.71	107.45	89.07	77.25
315.0	246.91	209.51	169.77	143.56	121.84	103.53	88.66	73.91	64.78
360.0	183.70	153.56	123.07	104.23	89.13	76.66	64.73	57.53	51.97

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	46.70	43.60	41.02	38.39	36.46	34.47	32.89	31.37	30.02
45.0	55.01	50.39	46.58	42.78	40.15	37.45	35.58	33.83	32.25
90.0	52.03	48.11	44.18	41.49	39.15	37.10	34.88	33.12	31.54
135.0	61.27	54.54	50.45	47.05	44.18	40.97	38.80	36.40	34.65
180.0	73.45	65.43	57.88	53.26	49.39	45.53	42.84	40.50	37.92
225.0	63.97	56.65	52.09	48.40	45.30	41.96	39.62	37.16	35.29
270.0	67.71	58.93	53.72	49.45	46.06	42.55	40.09	38.04	36.11
315.0	56.53	51.56	47.58	43.72	41.14	38.86	36.52	34.76	33.07
360.0	46.70	43.60	41.02	38.39	36.46	34.47	32.89	31.37	30.02

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	28.73	27.15	26.04	25.05	24.05	22.88	22.06	21.24	20.25
45.0	30.43	29.03	27.68	26.51	25.22	24.17	23.17	22.30	21.24
90.0	29.73	28.32	27.04	25.63	24.58	23.58	22.47	21.59	20.83
135.0	32.95	31.02	29.50	28.09	26.63	25.52	24.40	23.41	22.53
180.0	36.05	33.77	32.19	30.67	29.26	27.68	26.51	25.40	24.35
225.0	33.47	31.49	29.96	28.62	27.33	25.87	24.76	23.70	22.77
270.0	33.83	32.19	30.72	28.97	27.68	26.45	25.11	23.99	23.06
315.0	31.54	29.79	28.44	27.21	26.10	24.76	23.76	22.82	21.83
360.0	28.73	27.15	26.04	25.05	24.05	22.88	22.06	21.24	20.25

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.55	18.79	18.14	17.50	16.85	16.33	15.92	15.33	14.86
45.0	20.48	19.55	18.90	18.26	17.50	16.91	16.44	15.98	15.33
90.0	20.01	19.14	18.49	17.91	17.26	16.62	16.15	15.68	15.04
135.0	21.54	20.60	19.84	19.02	18.32	17.67	17.03	16.50	15.86
180.0	23.17	22.30	21.36	20.31	19.66	18.96	18.08	17.44	16.80
225.0	21.65	20.72	19.96	19.08	18.38	17.79	17.03	16.56	16.09
270.0	21.95	21.07	20.19	19.49	18.67	18.02	17.38	16.91	16.27
315.0	20.95	19.90	19.25	18.61	17.79	17.21	16.74	16.27	15.80
360.0	19.55	18.79	18.14	17.50	16.85	16.33	15.92	15.33	14.86

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.46	14.10	13.75	13.28	12.99	12.70	12.17	11.88	11.59
45.0	14.86	14.46	14.10	13.69	13.34	13.05	12.58	12.23	11.88
90.0	14.63	14.16	13.81	13.46	13.05	12.76	12.35	12.00	11.65
135.0	15.33	14.86	14.51	14.05	13.64	13.28	12.99	12.70	12.11
180.0	16.33	15.80	15.27	14.81	14.34	13.99	13.58	13.23	12.82
225.0	15.39	14.98	14.57	14.16	13.64	13.28	12.99	12.70	12.17
270.0	15.74	15.27	14.75	14.34	13.87	13.46	13.17	12.76	12.41
315.0	15.16	14.69	14.34	13.87	13.46	13.17	12.76	12.41	12.00
360.0	14.46	14.10	13.75	13.28	12.99	12.70	12.17	11.88	11.59

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.24	10.83	10.53	10.30	10.07	9.83	9.71	9.60	9.66
45.0	11.59	11.29	10.71	10.48	10.30	10.01	9.83	9.66	9.60
90.0	11.41	10.94	10.59	10.42	10.24	9.95	9.77	9.60	9.60
135.0	11.82	11.53	11.12	10.65	10.42	10.24	10.01	9.77	9.60
180.0	12.41	11.94	11.70	11.41	10.83	10.53	10.30	10.07	9.89
225.0	11.88	11.59	11.35	10.83	10.53	10.24	10.07	9.89	9.77
270.0	12.00	11.70	11.47	11.06	10.59	10.36	10.18	9.95	9.77
315.0	11.70	11.53	11.12	10.65	10.42	10.18	9.95	9.77	9.60
360.0	11.24	10.83	10.53	10.30	10.07	9.83	9.71	9.60	9.66

Intensity data(cd)

C/γ(°)	90.0
0.0	9.60
45.0	9.60
90.0	9.66
135.0	9.60
180.0	9.83
225.0	9.60
270.0	9.54
315.0	9.60
360.0	9.60