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NT

Client:
LumCAT: 2-2755-L
Luminaire: 92.70.412.00
Report No: 2024806-B012
Ballast type: AC

Test No: 2024806-C012	Voltage(V): 34.940
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.450
Lamp flux(lm): 2571.0	Power (W): 15.723
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2433.02, Efficiency(%): 94.63% , Luminous Efficacy(lm/W): 154.74
Central intensity(cd): 9485.240, Maximum intensity(cd): 9485.240
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.2
[C90/270]Total=23.2
Field angle(10%Imax): [C0/180]Total=54.0
[C90/270]Total=54.0
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.63%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.983%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9485.239	0.000	0	0.00%	0.00%
1.0	9430.740	9.051	9.051	0.35%	0.37%
2.0	9286.409	26.865	35.916	1.04%	1.48%
3.0	9032.933	43.814	79.729	1.70%	3.28%
4.0	8704.988	59.374	139.104	2.31%	5.72%
5.0	8279.383	73.066	212.17	2.84%	8.72%
6.0	7817.860	84.595	296.765	3.29%	12.20%
7.0	7328.173	94.011	390.776	3.66%	16.06%
8.0	6766.576	100.873	491.65	3.92%	20.21%
9.0	6217.855	105.232	596.881	4.09%	24.53%
10.0	5649.674	107.397	704.278	4.18%	28.95%
11.0	5128.751	107.699	811.977	4.19%	33.37%
12.0	4530.797	105.593	917.57	4.11%	37.71%
13.0	4045.646	101.781	1019.35	3.96%	41.90%
14.0	3598.827	97.849	1117.199	3.81%	45.92%
15.0	3165.760	92.867	1210.066	3.61%	49.74%
16.0	2810.894	87.575	1297.641	3.41%	53.33%
17.0	2462.466	82.120	1379.761	3.19%	56.71%
18.0	2164.586	76.290	1456.051	2.97%	59.85%
19.0	1926.692	71.180	1527.231	2.77%	62.77%
20.0	1735.470	67.028	1594.259	2.61%	65.53%
21.0	1567.511	63.424	1657.683	2.47%	68.13%
22.0	1361.365	58.857	1716.54	2.29%	70.55%
23.0	1269.199	55.196	1771.736	2.15%	72.82%
24.0	1185.739	53.674	1825.41	2.09%	75.03%
25.0	1094.034	51.837	1877.247	2.02%	77.16%
26.0	1016.507	49.820	1927.067	1.94%	79.20%
27.0	947.728	48.055	1975.122	1.87%	81.18%
28.0	879.418	46.259	2021.381	1.80%	83.08%
29.0	799.491	43.925	2065.306	1.71%	84.89%
30.0	717.603	40.961	2106.268	1.59%	86.57%
31.0	633.857	37.609	2143.877	1.46%	88.12%
32.0	551.172	33.950	2177.827	1.32%	89.51%
33.0	463.659	29.897	2207.724	1.16%	90.74%
34.0	381.077	25.564	2233.288	0.99%	91.79%
35.0	307.931	21.398	2254.686	0.83%	92.67%
36.0	249.825	17.759	2272.445	0.69%	93.40%
37.0	221.727	15.379	2287.825	0.60%	94.03%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	142.488	12.157	2299.982	0.47%	94.53%
39.0	94.455	8.088	2308.069	0.31%	94.86%
40.0	77.762	6.006	2314.075	0.23%	95.11%
41.0	68.596	5.212	2319.287	0.20%	95.33%
42.0	63.490	4.799	2324.086	0.19%	95.52%
43.0	59.005	4.538	2328.624	0.18%	95.71%
44.0	54.997	4.303	2332.926	0.17%	95.89%
45.0	51.127	4.078	2337.005	0.16%	96.05%
46.0	47.864	3.871	2340.876	0.15%	96.21%
47.0	45.135	3.699	2344.575	0.14%	96.36%
48.0	42.378	3.538	2348.113	0.14%	96.51%
49.0	40.146	3.389	2351.502	0.13%	96.65%
50.0	38.274	3.270	2354.771	0.13%	96.78%
51.0	36.818	3.177	2357.948	0.12%	96.91%
52.0	35.582	3.107	2361.055	0.12%	97.04%
53.0	34.477	3.048	2364.102	0.12%	97.17%
54.0	33.548	2.998	2367.101	0.12%	97.29%
55.0	32.619	2.954	2370.054	0.11%	97.41%
56.0	31.675	2.905	2372.96	0.11%	97.53%
57.0	30.519	2.844	2375.803	0.11%	97.65%
58.0	29.627	2.781	2378.585	0.11%	97.76%
59.0	28.530	2.719	2381.303	0.11%	97.87%
60.0	27.191	2.632	2383.936	0.10%	97.98%
61.0	25.940	2.536	2386.471	0.10%	98.09%
62.0	24.821	2.446	2388.917	0.10%	98.19%
63.0	23.687	2.359	2391.277	0.09%	98.28%
64.0	22.282	2.256	2393.532	0.09%	98.38%
65.0	21.163	2.150	2395.682	0.08%	98.47%
66.0	20.263	2.067	2397.749	0.08%	98.55%
67.0	19.437	1.996	2399.746	0.08%	98.63%
68.0	18.478	1.921	2401.666	0.07%	98.71%
69.0	17.593	1.840	2403.506	0.07%	98.79%
70.0	16.964	1.775	2405.281	0.07%	98.86%
71.0	16.372	1.723	2407.004	0.07%	98.93%
72.0	15.721	1.669	2408.673	0.06%	99.00%
73.0	15.157	1.615	2410.288	0.06%	99.07%
74.0	14.645	1.567	2411.854	0.06%	99.13%
75.0	14.243	1.526	2413.381	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.870	1.492	2414.873	0.06%	99.25%
77.0	13.533	1.461	2416.334	0.06%	99.31%
78.0	13.211	1.432	2417.766	0.06%	99.37%
79.0	12.904	1.403	2419.169	0.05%	99.43%
80.0	12.626	1.376	2420.545	0.05%	99.49%
81.0	12.348	1.351	2421.896	0.05%	99.54%
82.0	12.092	1.325	2423.221	0.05%	99.60%
83.0	11.836	1.301	2424.522	0.05%	99.65%
84.0	11.617	1.278	2425.8	0.05%	99.70%
85.0	11.368	1.254	2427.054	0.05%	99.75%
86.0	11.149	1.231	2428.285	0.05%	99.81%
87.0	10.958	1.210	2429.495	0.05%	99.86%
88.0	10.790	1.191	2430.686	0.05%	99.90%
89.0	10.629	1.174	2431.86	0.05%	99.95%
90.0	10.519	1.160	2433.02	0.05%	100.00%

Zonal flux distribution table

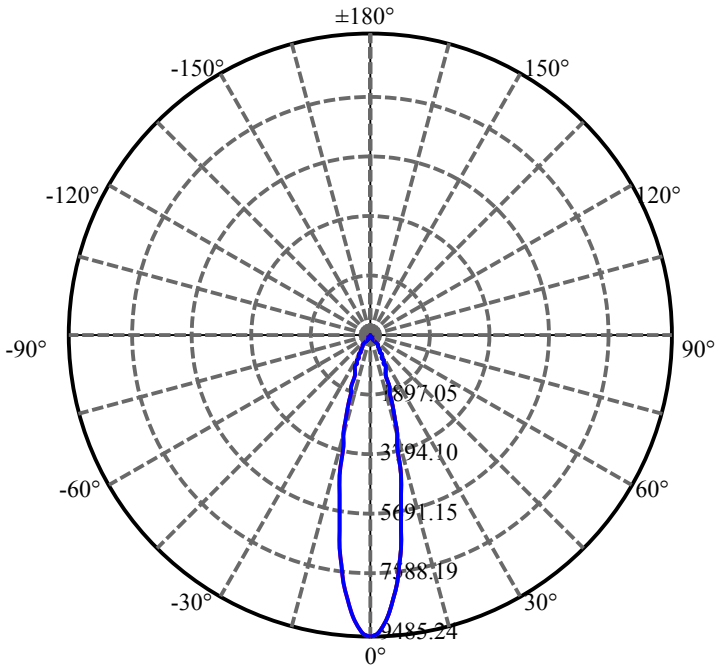
ZONAL LUMEN SUMMARY

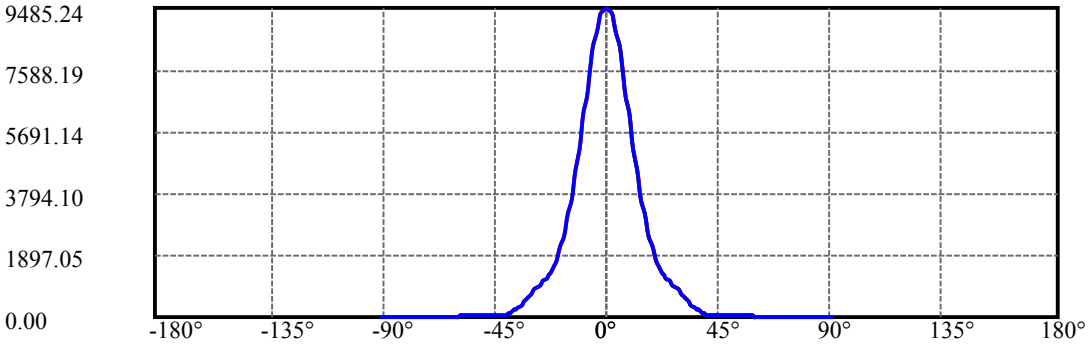
Zone	Lumens	%Lamp	%Fixt
0-30	2106.27	81.92%	86.57%
0-40	2314.08	90.01%	95.11%
0-60	2383.94	92.72%	97.98%
0-90	2431.86	94.59%	99.95%
0-120	2431.86	94.59%	99.95%
0-180	2433.02	94.63%	100.00%
60-90	47.92	1.86%	1.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.40	1946.42	75.71%	80.00%

ZONAL LUMEN SUMMARY

0-10	704.28
10-20	889.98
20-30	512.01
30-40	207.81
40-50	40.70
50-60	29.16
60-70	21.35
70-80	15.26
80-90	11.31
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):

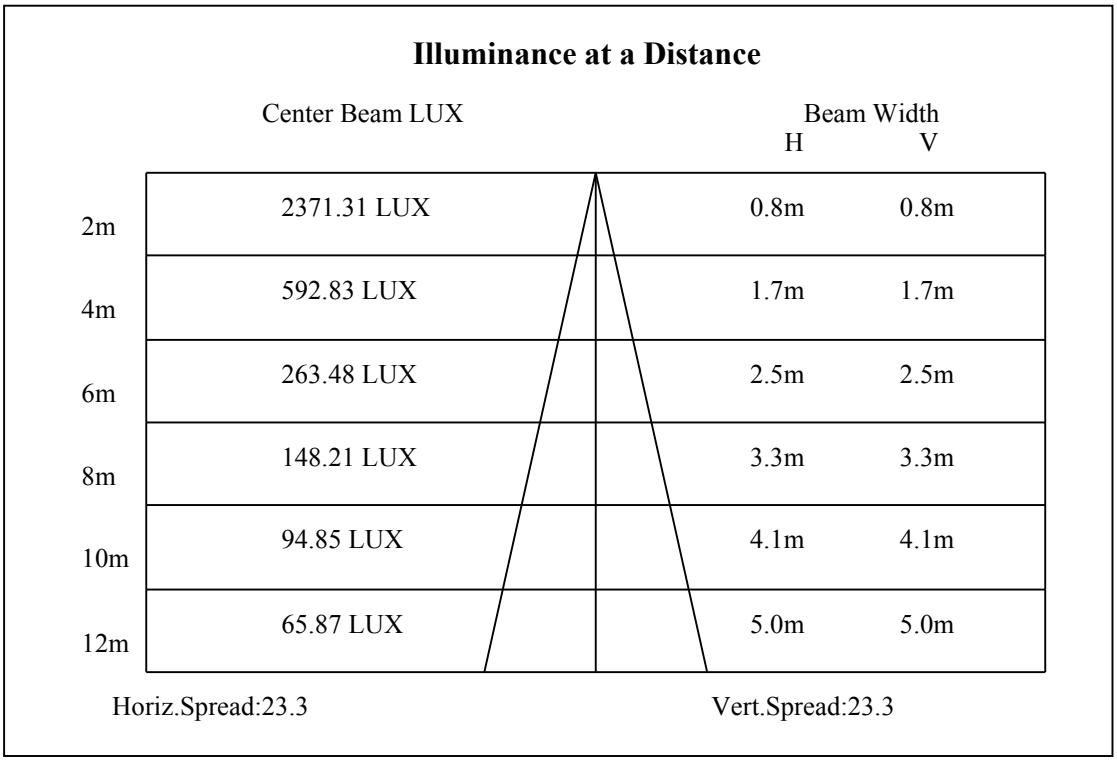
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:27.0 Right:27.0
:C90/270Left:27.0 Right:27.0

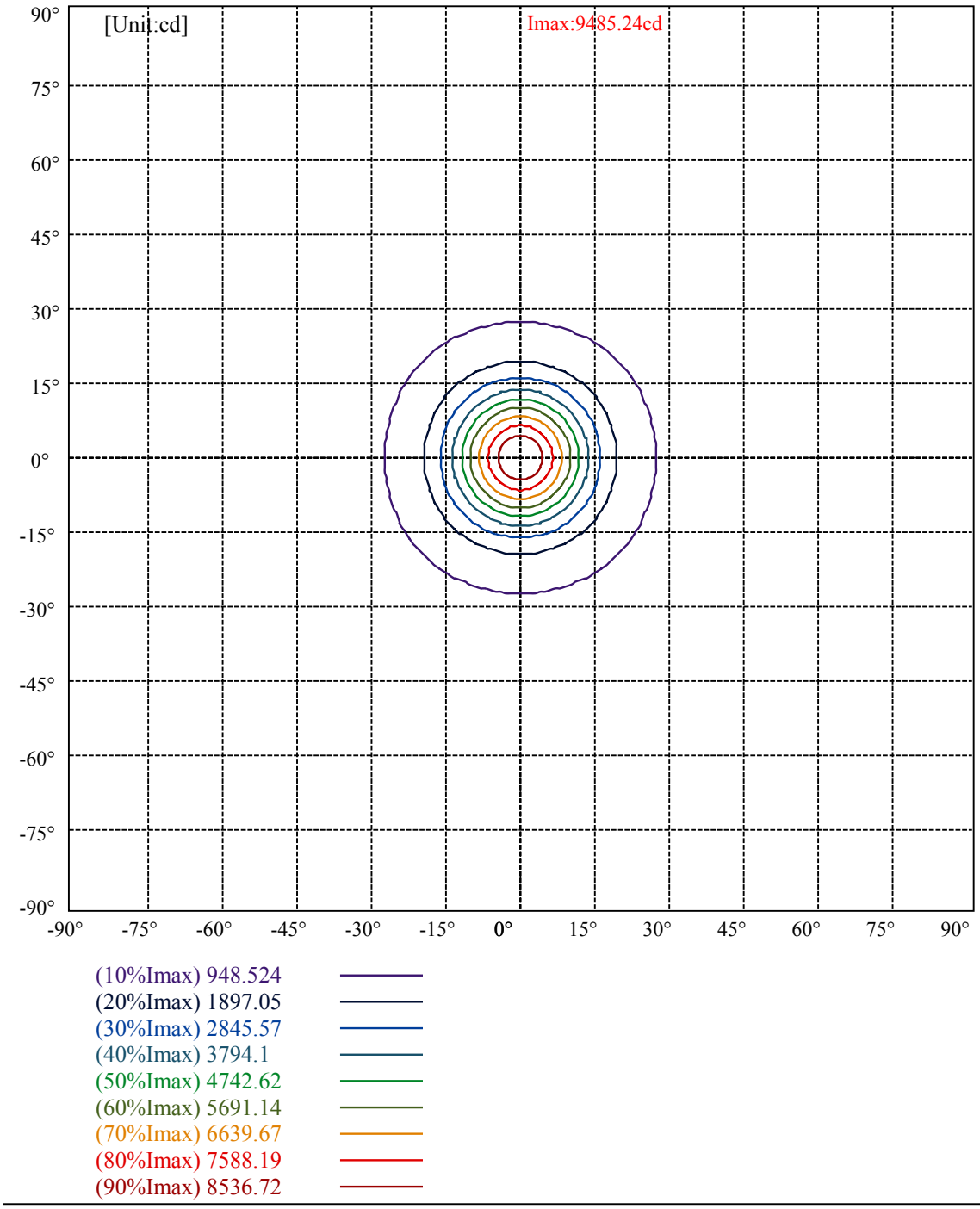
Beam Angle(50%Imax):C0/180Left:11.6 Right:11.6
:C90/270Left:11.6 Right:11.6

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)



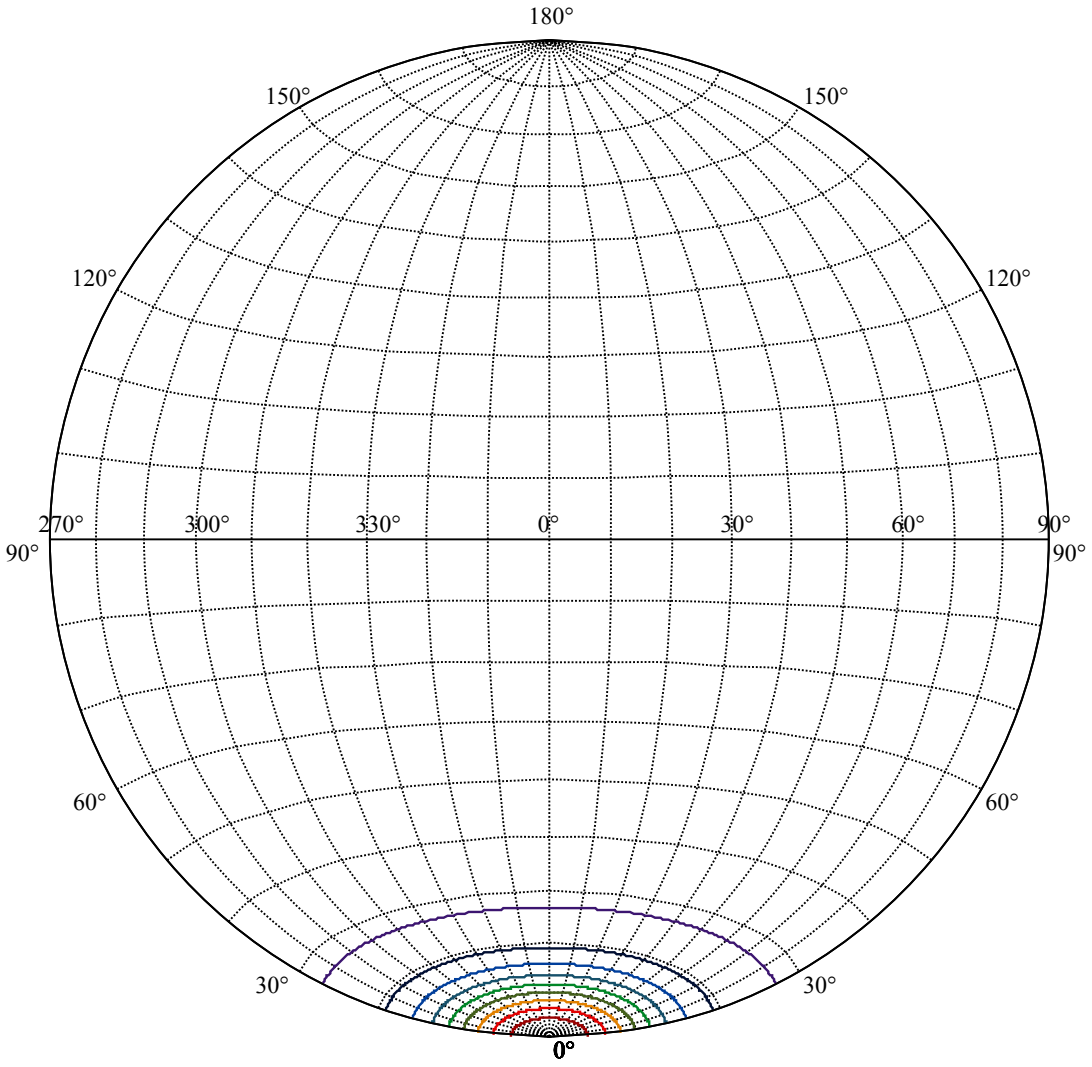
(10%Imax) 948.524
(20%Imax) 1897.05
(30%Imax) 2845.57
(40%Imax) 3794.1
(50%Imax) 4742.62
(60%Imax) 5691.14
(70%Imax) 6639.67
(80%Imax) 7588.19
(90%Imax) 8536.72

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



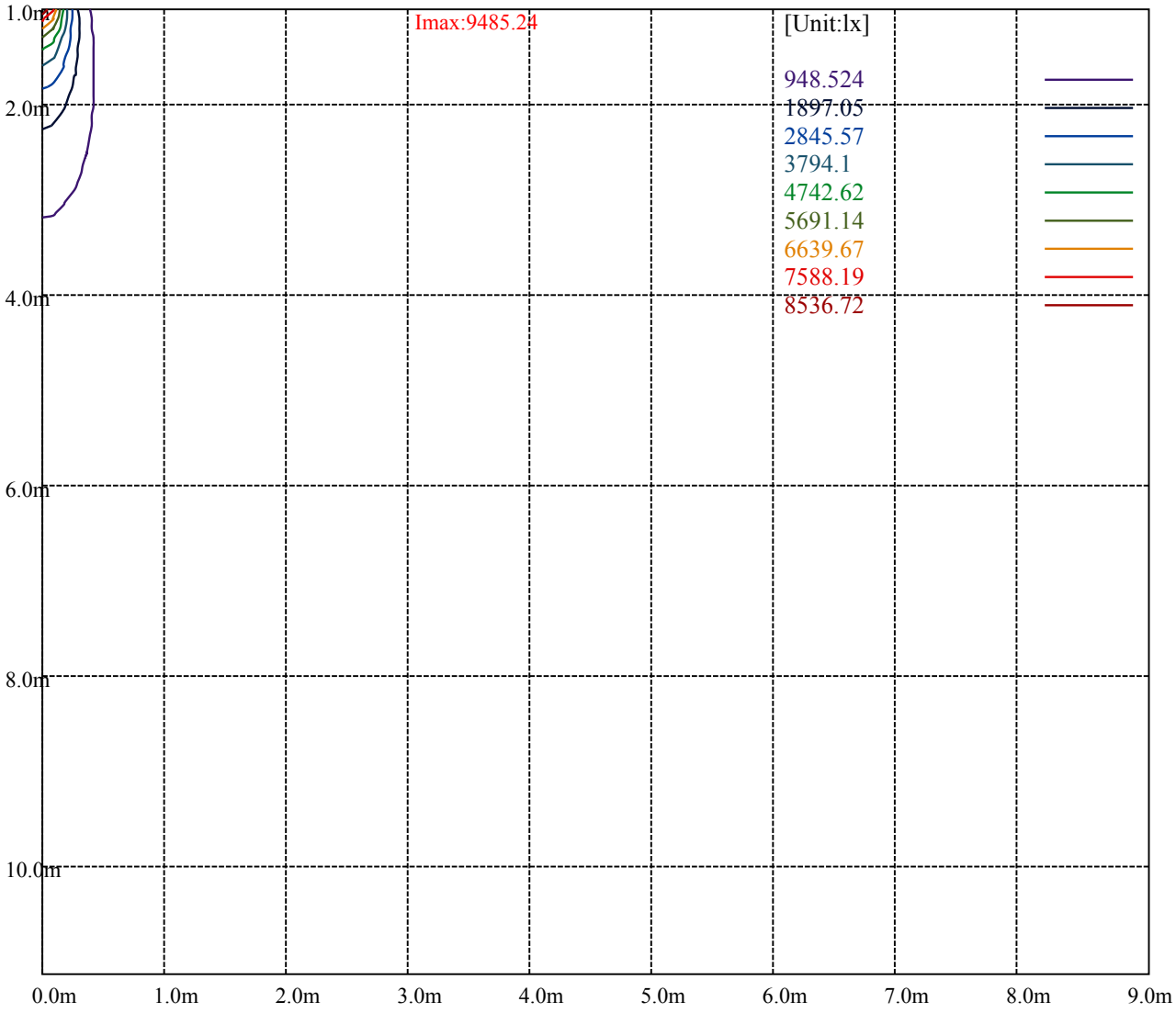
House [Unit:cd] Road

Imax:9485.24

(10%Imax) 948.524
(20%Imax) 1897.05
(30%Imax) 2845.57
(40%Imax) 3794.1
(50%Imax) 4742.62
(60%Imax) 5691.14
(70%Imax) 6639.67
(80%Imax) 7588.19
(90%Imax) 8536.72

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

Luminance Limitting Curve(no luminous side)

Luminance Table

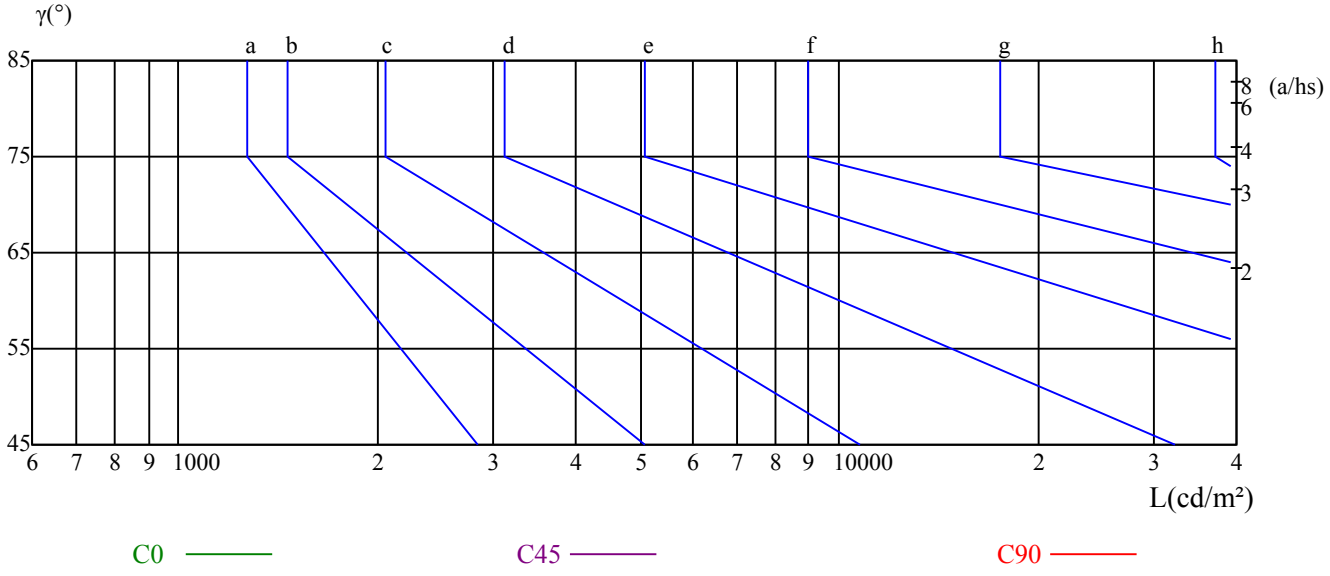
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

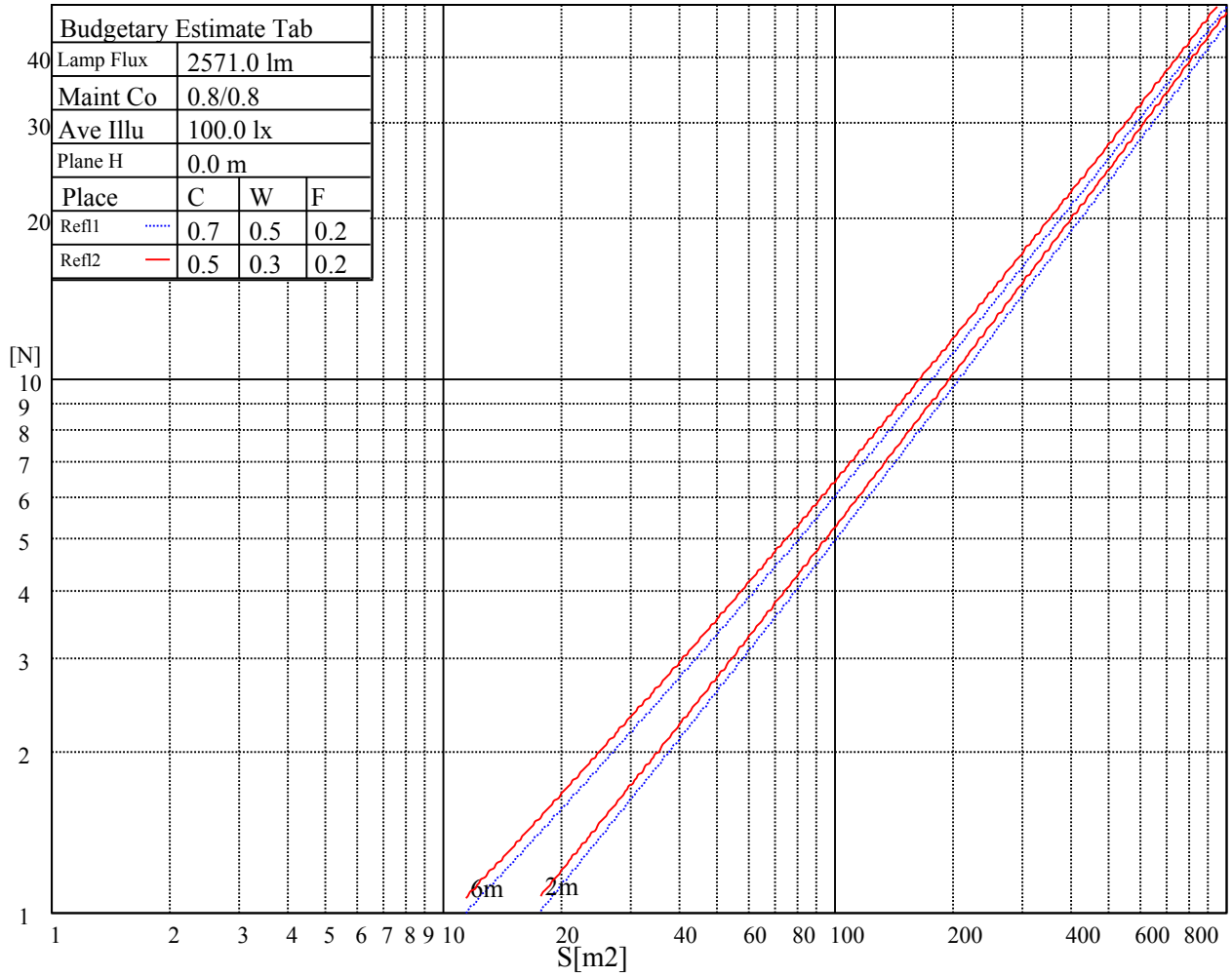
Luminance Limitting Curve



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

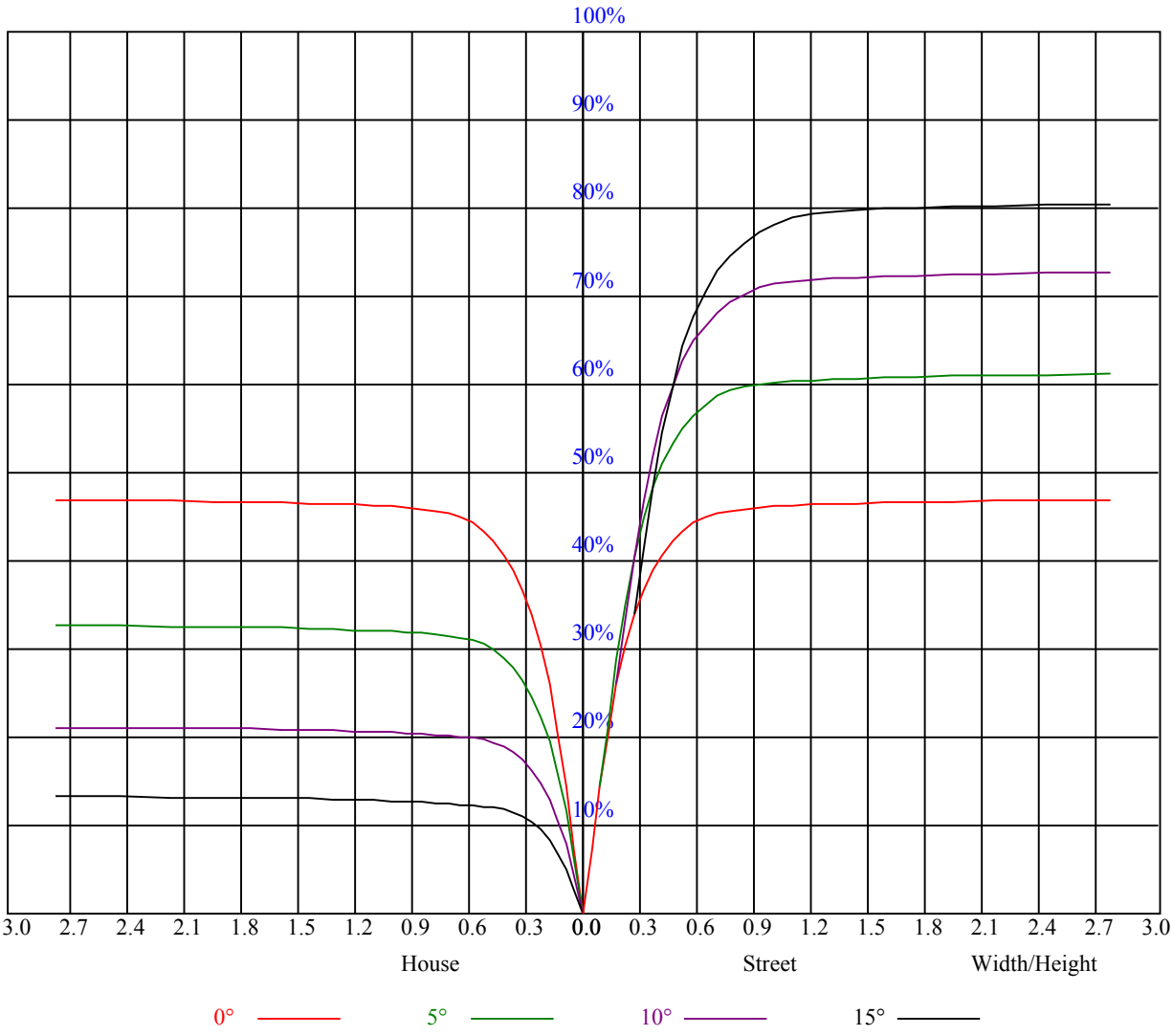


Equipment: GMS1980 Date: 2024/8/6 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

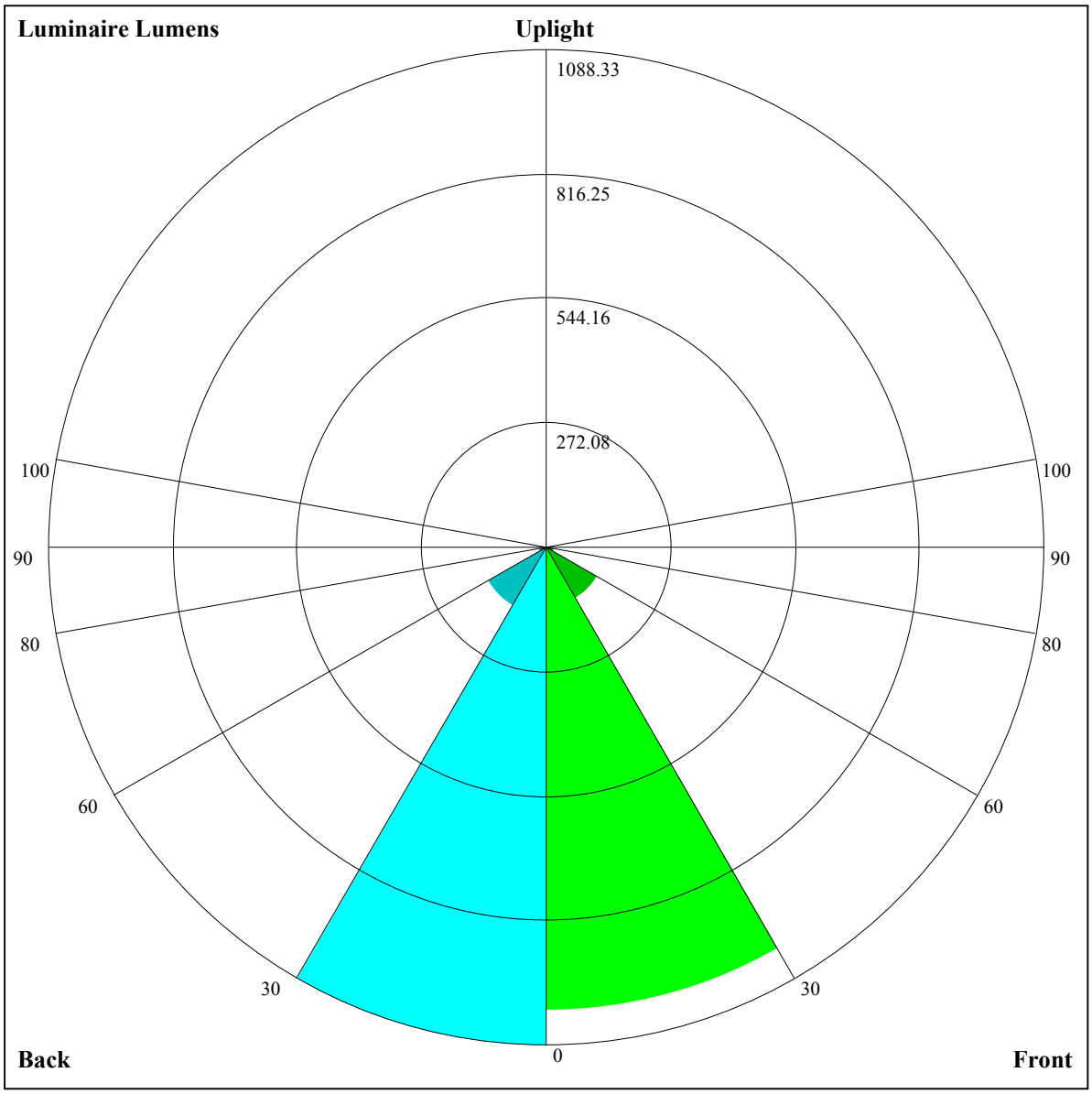
Utilization factor table for indoor luminaire

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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.97	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.95	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	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	0.73	0.72
7	0.79	0.75	0.72	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.69	0.66	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=1014.18,FM=130.68,FH=17.98,FVH=6.19
BL=1088.33,BM=148.51,BH=18.52,BVH=6.26
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	9453.20	9313.91	9068.12	8676.02	8283.92	7734.98	7262.70	6758.24	6102.20
45.0	9528.11	9486.56	9379.46	9171.70	8786.04	8413.25	7976.68	7401.40	6915.08
90.0	9494.75	9370.10	9175.80	8887.29	8537.32	8135.27	7579.89	7089.47	6597.89
135.0	9474.85	9524.01	9474.27	9344.93	9048.81	8725.18	8342.44	7900.01	7301.33
180.0	9453.20	9506.45	9460.22	9323.86	9083.34	8716.98	8327.23	7897.67	7423.05
225.0	9528.11	9419.25	9251.30	8998.48	8695.92	8196.13	7751.36	7266.21	6617.78
270.0	9494.75	9519.91	9409.89	9174.05	8914.21	8473.53	8063.87	7586.92	6968.92
315.0	9454.95	9305.72	9072.22	8687.14	8290.36	7839.73	7238.71	6725.46	6206.37
360.0	9453.20	9313.91	9068.12	8676.02	8283.92	7734.98	7262.70	6758.24	6102.20

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5581.93	5066.35	4559.55	3960.28	3531.31	3147.40	2799.19	2486.68	2160.71
45.0	6395.40	5746.38	5224.95	4584.71	4114.78	3673.52	3263.27	2901.60	2500.14
90.0	5944.19	5427.44	4904.24	4282.74	3828.60	3412.51	2949.01	2608.41	2324.57
135.0	6807.98	6308.78	5768.62	5119.61	4624.51	4135.26	3582.81	3180.76	2817.33
180.0	6804.47	6279.52	5748.14	5086.83	4570.08	4094.29	3552.96	3155.01	2803.29
225.0	6091.67	5423.34	4908.93	4414.41	3833.87	3417.19	3037.38	2697.36	2395.38
270.0	6455.09	5934.24	5406.37	4755.60	4265.76	3799.92	3382.66	3005.19	2580.90
315.0	5662.11	5011.34	4509.22	4042.21	3596.27	3110.53	2758.81	2452.15	2117.40
360.0	5581.93	5066.35	4559.55	3960.28	3531.31	3147.40	2799.19	2486.68	2160.71

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1943.59	1715.35	1564.36	1432.10	1156.46	1156.46	1093.02	1004.89	947.42
45.0	2238.54	2006.21	1806.65	1600.06	1460.19	1339.05	1199.77	1109.06	1017.76
90.0	2024.94	1822.45	1649.81	1505.84	1159.45	1159.45	1134.52	1051.36	963.63
135.0	2436.35	2175.93	1906.72	1728.23	1576.65	1447.91	1305.11	1198.01	1114.91
180.0	2411.77	2161.88	1944.76	1751.64	1553.25	1415.72	1303.35	1197.43	1094.43
225.0	2077.61	1862.83	1686.09	1498.82	1373.58	1144.82	1144.82	1070.73	1005.59
270.0	2285.36	1992.16	1800.80	1628.74	1450.83	1329.69	1226.10	1112.57	1040.59
315.0	1898.53	1676.73	1524.57	1394.65	1160.50	1160.50	1079.21	1008.23	947.71
360.0	1943.59	1715.35	1564.36	1432.10	1156.46	1156.46	1093.02	1004.89	947.42

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	881.93	808.55	710.81	630.99	552.10	471.75	376.94	305.14	238.89
45.0	953.98	894.87	804.74	725.74	650.24	571.82	477.02	402.69	328.95
90.0	903.47	841.50	747.33	670.02	572.17	496.27	420.66	346.63	260.48
135.0	1039.42	959.24	897.21	827.57	755.00	652.58	572.41	470.58	389.82
180.0	1025.96	947.54	884.92	811.77	714.03	632.10	553.10	454.19	379.28
225.0	933.14	868.42	790.58	689.75	609.80	527.29	449.16	357.75	289.22
270.0	973.29	911.84	832.83	756.75	671.90	592.31	492.23	414.98	344.17
315.0	870.64	803.40	727.49	628.24	545.61	465.25	367.76	296.65	232.63
360.0	881.93	808.55	710.81	630.99	552.10	471.75	376.94	305.14	238.89

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	181.01	122.66	92.64	74.56	69.17	64.49	59.75	55.89	51.85
45.0	295.01	295.01	133.14	95.63	76.25	68.00	63.15	59.28	54.95
90.0	198.04	147.07	107.45	79.18	69.64	64.20	59.81	55.30	51.97
135.0	313.15	295.60	213.78	121.02	90.71	71.28	66.31	61.98	58.52
180.0	308.47	308.47	229.00	124.65	94.63	79.06	72.33	66.72	62.50
225.0	227.95	172.06	126.35	90.07	77.25	70.46	65.55	61.16	55.95
270.0	309.64	309.64	142.79	94.86	74.79	66.54	60.63	56.36	52.96
315.0	165.33	123.31	94.75	75.67	69.64	64.73	60.40	55.36	51.27
360.0	181.01	122.66	92.64	74.56	69.17	64.49	59.75	55.89	51.85

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	48.63	45.18	42.66	40.03	38.16	36.87	35.99	34.94	34.41
45.0	51.32	47.75	45.53	43.31	40.85	38.86	37.75	36.46	35.11
90.0	48.63	45.24	43.01	39.85	38.10	36.64	35.58	34.24	33.24
135.0	54.25	50.80	47.93	44.95	42.49	40.32	38.16	37.16	35.70
180.0	57.59	54.19	51.09	47.70	45.18	42.84	40.67	39.39	38.04
225.0	52.26	49.16	45.94	43.13	40.79	39.21	37.45	36.05	34.88
270.0	48.52	45.65	43.25	40.85	38.45	36.05	34.82	33.77	32.42
315.0	47.81	44.95	41.67	39.21	37.16	35.41	34.12	32.66	32.01
360.0	48.63	45.18	42.66	40.03	38.16	36.87	35.99	34.94	34.41

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	33.88	32.83	31.84	31.19	30.31	28.56	27.10	26.10	24.93
45.0	33.83	33.07	32.30	30.61	29.85	29.14	27.62	26.16	25.22
90.0	32.48	31.60	30.61	29.55	28.91	27.68	26.34	25.16	23.99
135.0	34.41	33.65	33.01	31.78	30.61	29.73	28.56	26.86	25.63
180.0	36.69	35.52	34.35	33.12	31.95	30.67	29.61	28.21	26.74
225.0	34.06	32.66	31.66	30.26	29.44	28.44	26.92	26.04	25.11
270.0	31.60	31.02	30.31	29.03	28.15	27.56	26.45	24.93	23.82
315.0	31.43	30.61	29.32	28.62	27.80	26.45	24.93	24.05	23.12
360.0	33.88	32.83	31.84	31.19	30.31	28.56	27.10	26.10	24.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.53	22.18	21.42	20.42	19.49	18.38	17.50	16.97	16.33
45.0	24.05	22.88	21.42	20.66	19.84	18.90	17.91	17.21	16.56
90.0	23.00	21.30	20.42	19.78	19.08	17.91	17.15	16.62	16.21
135.0	24.81	23.47	22.06	20.89	20.01	19.14	18.26	17.38	16.80
180.0	25.69	24.17	22.82	21.65	20.66	19.78	18.79	17.97	17.38
225.0	23.47	21.95	21.07	20.42	19.49	18.26	17.56	17.09	16.27
270.0	23.12	21.95	20.48	19.55	19.02	18.38	17.21	16.62	16.09
315.0	21.83	20.37	19.61	18.73	17.91	17.09	16.39	15.86	15.33
360.0	23.53	22.18	21.42	20.42	19.49	18.38	17.50	16.97	16.33

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.45	15.10	14.69	14.22	13.93	13.58	13.28	12.93	12.64
45.0	15.98	15.33	14.69	14.34	13.93	13.58	13.28	12.87	12.64
90.0	15.45	14.86	14.46	14.16	13.75	13.40	13.05	12.76	12.52
135.0	16.21	15.63	14.92	14.51	14.16	13.81	13.46	13.17	12.87
180.0	16.74	16.09	15.51	15.04	14.51	14.16	13.81	13.52	13.23
225.0	15.63	15.04	14.51	14.10	13.69	13.34	13.05	12.76	12.47
270.0	15.51	14.92	14.46	13.99	13.69	13.40	13.05	12.82	12.52
315.0	14.81	14.28	13.93	13.58	13.28	12.99	12.70	12.41	12.11
360.0	15.45	15.10	14.69	14.22	13.93	13.58	13.28	12.93	12.64

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.47	12.17	11.94	11.70	11.53	11.35	11.06	10.83	10.59
45.0	12.41	12.11	11.88	11.65	11.41	11.18	11.00	10.83	10.59
90.0	12.17	11.94	11.70	11.47	11.24	10.94	10.83	10.65	10.53
135.0	12.58	12.29	11.94	11.76	11.47	11.29	11.06	10.89	10.71
180.0	12.87	12.64	12.35	12.11	11.82	11.53	11.35	11.29	11.12
225.0	12.17	11.94	11.70	11.47	11.24	11.06	10.83	10.65	10.53
270.0	12.23	12.00	11.70	11.47	11.18	11.00	10.83	10.59	10.48
315.0	11.88	11.65	11.47	11.29	11.06	10.83	10.71	10.59	10.48
360.0	12.47	12.17	11.94	11.70	11.53	11.35	11.06	10.83	10.59

Intensity data(cd)

C/γ(°)	90.0
0.0	10.59
45.0	10.48
90.0	10.53
135.0	10.59
180.0	10.53
225.0	10.48
270.0	10.48
315.0	10.48
360.0	10.59