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Nata

Client:
LumCAT: 2-2763-L
Luminaire: 92.70.411.00
Report No: 2024831-B011
Ballast type:

Test No: 2024831-C011	Voltage(V):
LampCAT: LUMILEDS LUXEON CoB 1205	Current(A):
Lamp flux(lm): 2551.0	Power (W): 21.760
Number of Lamps: 1	PF:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2378.51, Efficiency(%): 93.24% , Luminous Efficacy(lm/W): 109.31
Central intensity(cd): 3672.410, Maximum intensity(cd): 3672.410
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=49.2
[C90/270]Total=49.2
Field angle(10%Imax): [C0/180]Total=73.2
[C90/270]Total=73.2
Maximum s/h(1/2): C0_180=0.77 C90_270=0.77
Maximum s/h(1/4): C0_180=0.76 C90_270=0.76
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.142%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3672.410	0.000	0	0.00%	0.00%
1.0	3669.211	3.513	3.513	0.14%	0.15%
2.0	3658.350	10.517	14.03	0.41%	0.59%
3.0	3642.890	17.462	31.492	0.68%	1.32%
4.0	3624.362	24.326	55.818	0.95%	2.35%
5.0	3600.748	31.082	86.9	1.22%	3.65%
6.0	3572.121	37.695	124.595	1.48%	5.24%
7.0	3535.767	44.119	168.714	1.73%	7.09%
8.0	3488.409	50.271	218.985	1.97%	9.21%
9.0	3435.761	56.117	275.101	2.20%	11.57%
10.0	3371.826	61.606	336.707	2.41%	14.16%
11.0	3302.377	66.689	403.396	2.61%	16.96%
12.0	3221.325	71.313	474.71	2.80%	19.96%
13.0	3139.000	75.481	550.191	2.96%	23.13%
14.0	3044.065	79.143	629.334	3.10%	26.46%
15.0	2952.416	82.322	711.656	3.23%	29.92%
16.0	2839.676	84.870	796.526	3.33%	33.49%
17.0	2725.096	86.658	883.185	3.40%	37.13%
18.0	2621.469	88.153	971.338	3.46%	40.84%
19.0	2503.552	89.165	1060.503	3.50%	44.59%
20.0	2378.473	89.355	1149.857	3.50%	48.34%
21.0	2262.520	89.116	1238.974	3.49%	52.09%
22.0	2154.005	88.752	1327.726	3.48%	55.82%
23.0	2031.291	87.819	1415.545	3.44%	59.51%
24.0	1908.295	86.133	1501.678	3.38%	63.14%
25.0	1782.309	83.916	1585.594	3.29%	66.66%
26.0	1660.771	81.274	1666.869	3.19%	70.08%
27.0	1522.670	77.884	1744.752	3.05%	73.35%
28.0	1351.717	72.773	1817.526	2.85%	76.41%
29.0	1204.194	66.870	1884.395	2.62%	79.23%
30.0	1086.664	61.853	1946.248	2.42%	81.83%
31.0	971.158	57.266	2003.514	2.24%	84.23%
32.0	823.727	51.421	2054.936	2.02%	86.40%
33.0	701.289	44.928	2099.863	1.76%	88.28%
34.0	583.181	38.872	2138.735	1.52%	89.92%
35.0	487.885	33.263	2171.998	1.30%	91.32%
36.0	404.869	28.425	2200.424	1.11%	92.51%
37.0	338.036	24.229	2224.653	0.95%	93.53%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	285.060	20.798	2245.451	0.82%	94.41%
39.0	229.172	17.552	2263.004	0.69%	95.14%
40.0	204.777	15.135	2278.138	0.59%	95.78%
41.0	154.915	12.808	2290.947	0.50%	96.32%
42.0	121.754	10.052	2300.999	0.39%	96.74%
43.0	100.348	8.227	2309.226	0.32%	97.09%
44.0	80.270	6.817	2316.043	0.27%	97.37%
45.0	65.657	5.608	2321.651	0.22%	97.61%
46.0	55.072	4.721	2326.372	0.19%	97.81%
47.0	46.439	4.037	2330.41	0.16%	97.98%
48.0	40.171	3.501	2333.911	0.14%	98.13%
49.0	34.902	3.083	2336.994	0.12%	98.25%
50.0	31.124	2.753	2339.747	0.11%	98.37%
51.0	27.950	2.499	2342.246	0.10%	98.48%
52.0	25.329	2.286	2344.532	0.09%	98.57%
53.0	23.101	2.107	2346.639	0.08%	98.66%
54.0	21.380	1.961	2348.6	0.08%	98.74%
55.0	19.566	1.828	2350.427	0.07%	98.82%
56.0	18.298	1.711	2352.138	0.07%	98.89%
57.0	17.030	1.615	2353.754	0.06%	98.96%
58.0	15.894	1.523	2355.276	0.06%	99.02%
59.0	14.928	1.441	2356.717	0.06%	99.08%
60.0	14.152	1.374	2358.091	0.05%	99.14%
61.0	13.390	1.314	2359.405	0.05%	99.20%
62.0	12.687	1.257	2360.662	0.05%	99.25%
63.0	12.057	1.203	2361.865	0.05%	99.30%
64.0	11.485	1.155	2363.02	0.05%	99.35%
65.0	10.979	1.112	2364.132	0.04%	99.40%
66.0	10.486	1.071	2365.203	0.04%	99.44%
67.0	10.026	1.031	2366.235	0.04%	99.48%
68.0	9.593	0.994	2367.228	0.04%	99.53%
69.0	9.185	0.958	2368.186	0.04%	99.57%
70.0	8.804	0.924	2369.11	0.04%	99.60%
71.0	8.364	0.887	2369.998	0.03%	99.64%
72.0	8.029	0.852	2370.85	0.03%	99.68%
73.0	7.700	0.823	2371.672	0.03%	99.71%
74.0	7.208	0.784	2372.456	0.03%	99.75%
75.0	6.689	0.734	2373.19	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.966	0.672	2373.862	0.03%	99.80%
77.0	5.467	0.610	2374.472	0.02%	99.83%
78.0	4.954	0.558	2375.03	0.02%	99.85%
79.0	4.494	0.508	2375.537	0.02%	99.88%
80.0	4.074	0.462	2375.999	0.02%	99.89%
81.0	3.660	0.418	2376.417	0.02%	99.91%
82.0	3.252	0.375	2376.792	0.01%	99.93%
83.0	2.845	0.331	2377.124	0.01%	99.94%
84.0	2.490	0.291	2377.414	0.01%	99.95%
85.0	2.142	0.253	2377.667	0.01%	99.96%
86.0	1.879	0.220	2377.887	0.01%	99.97%
87.0	1.636	0.192	2378.079	0.01%	99.98%
88.0	1.393	0.166	2378.245	0.01%	99.99%
89.0	1.170	0.140	2378.386	0.01%	99.99%
90.0	1.045	0.121	2378.507	0.00%	100.00%

Zonal flux distribution table

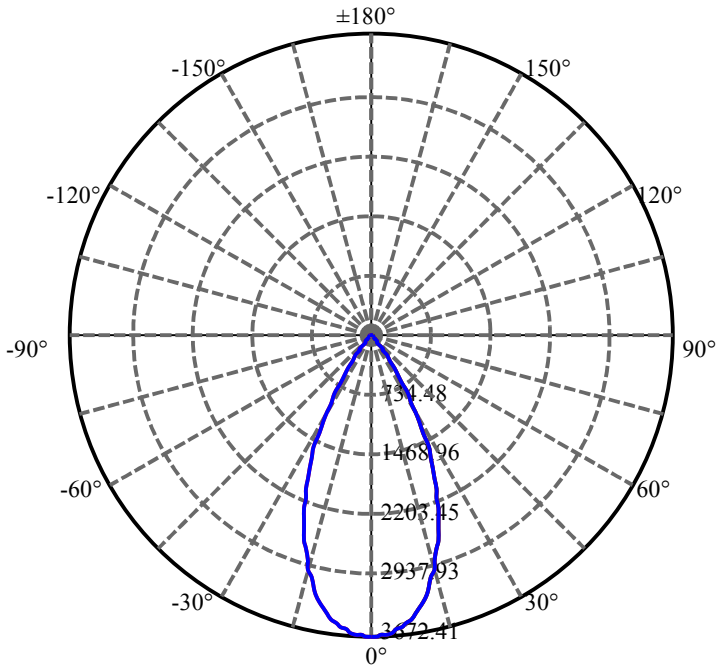
ZONAL LUMEN SUMMARY

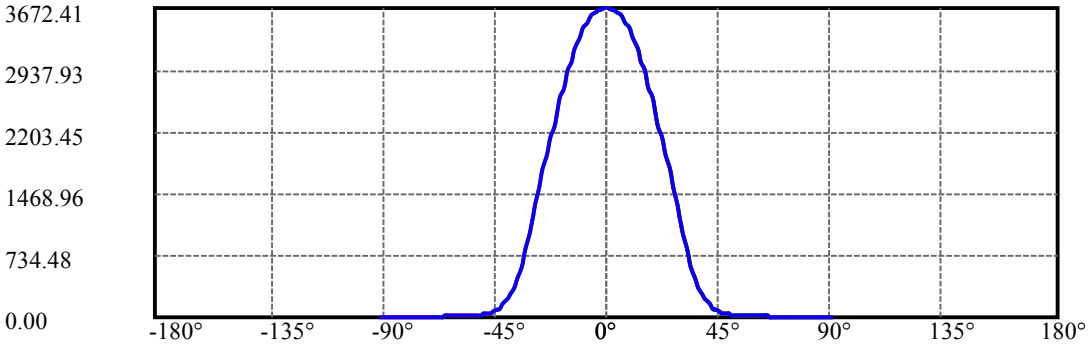
Zone	Lumens	%Lamp	%Fixt
0-30	1946.25	76.29%	81.83%
0-40	2278.14	89.30%	95.78%
0-60	2358.09	92.44%	99.14%
0-90	2378.39	93.23%	99.99%
0-120	2378.39	93.23%	99.99%
0-180	2378.51	93.24%	100.00%
60-90	20.29	0.80%	0.85%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.30	1902.81	74.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	336.71
10-20	813.15
20-30	796.39
30-40	331.89
40-50	61.61
50-60	18.34
60-70	11.02
70-80	6.89
80-90	2.39
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:

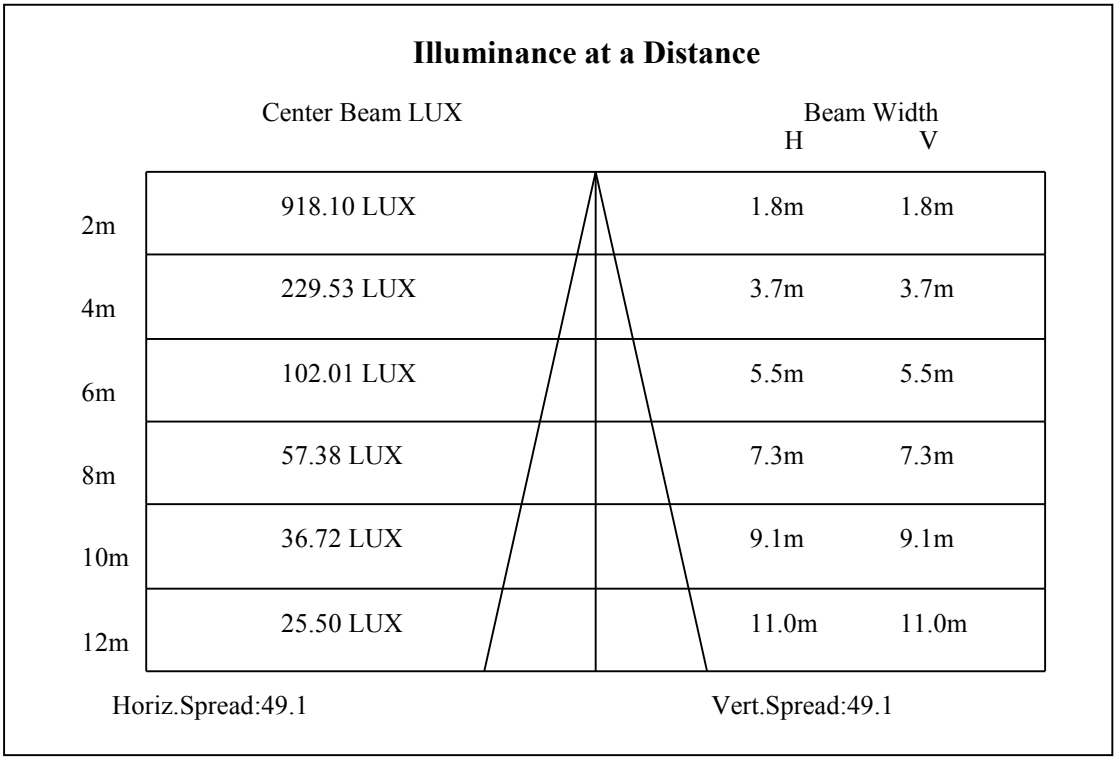
C90/C270:

Field angle(10%Imax):C0/180Left:36.6 Right:36.6
:C90/270Left:36.6 Right:36.6

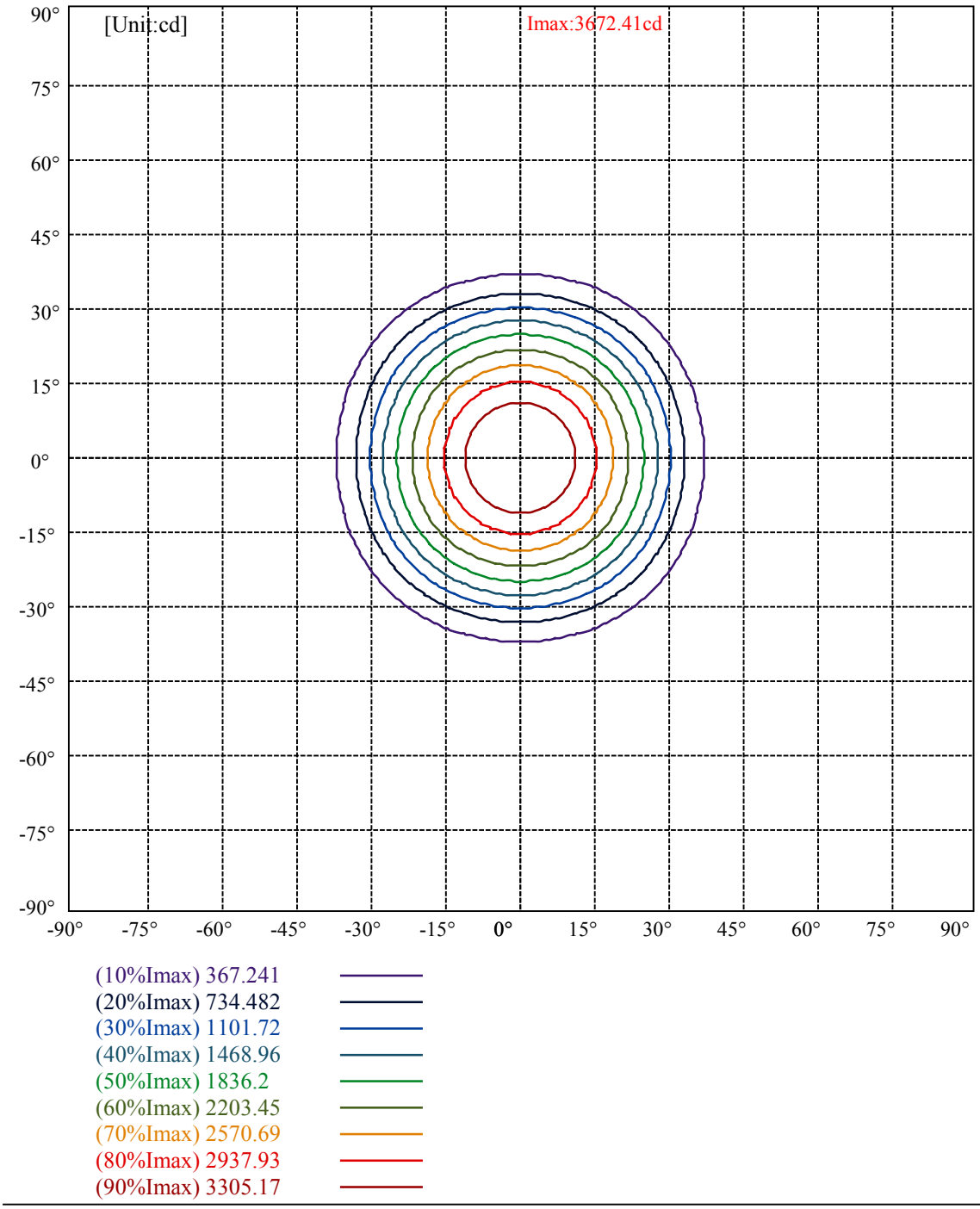
Beam Angle(50%Imax):C0/180Left:24.6 Right:24.6
:C90/270Left:24.6 Right:24.6

Equipment: GMS 1800 Date: 2024/8/31 Operator: NT0
Temperature(°C): 25 Humidity(%): 60%

Lux distance Curve



ISO-Intensity(V-H)

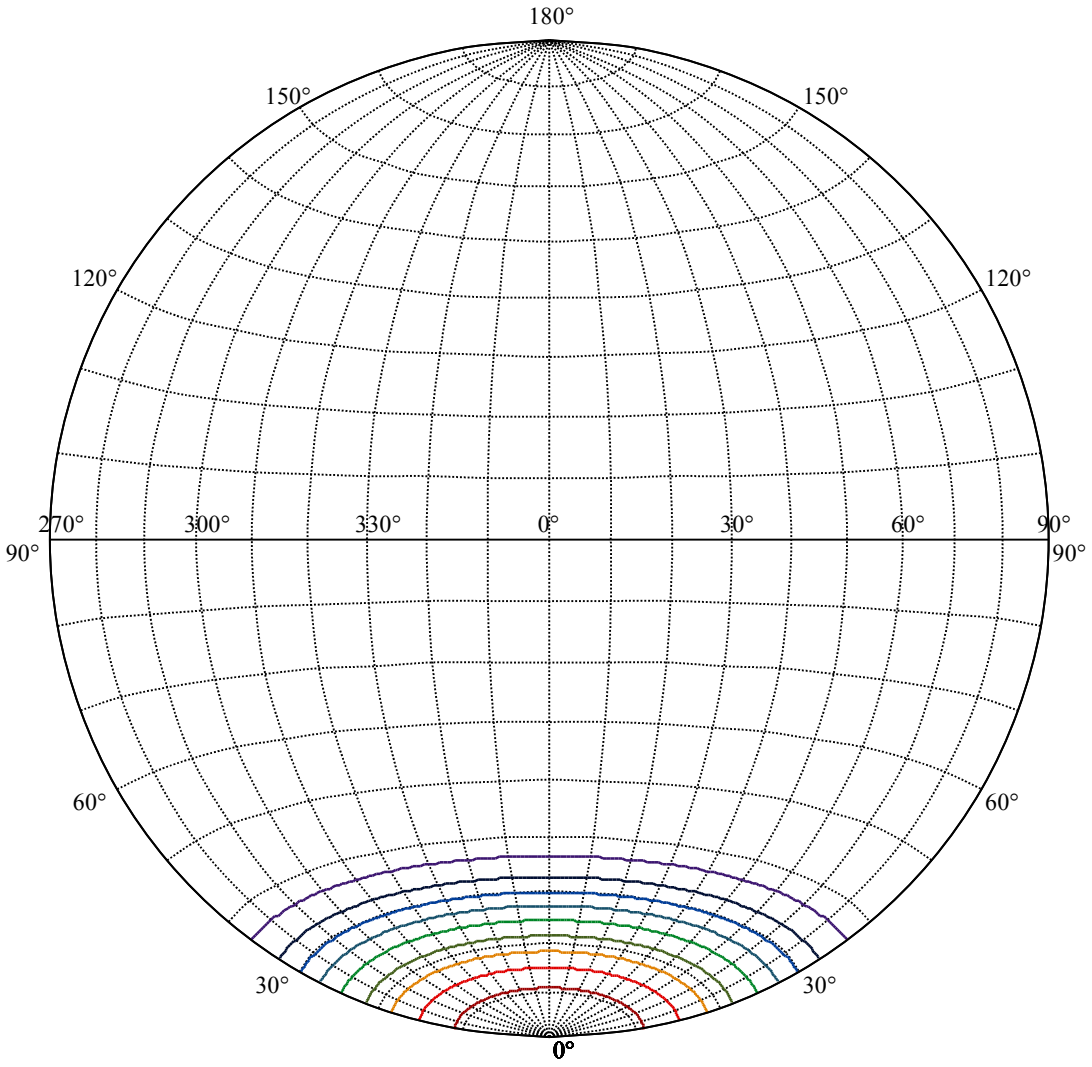


Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/8/31
Humidity(%): 60%

Operator: NT0

ISO candela diagram on circular web



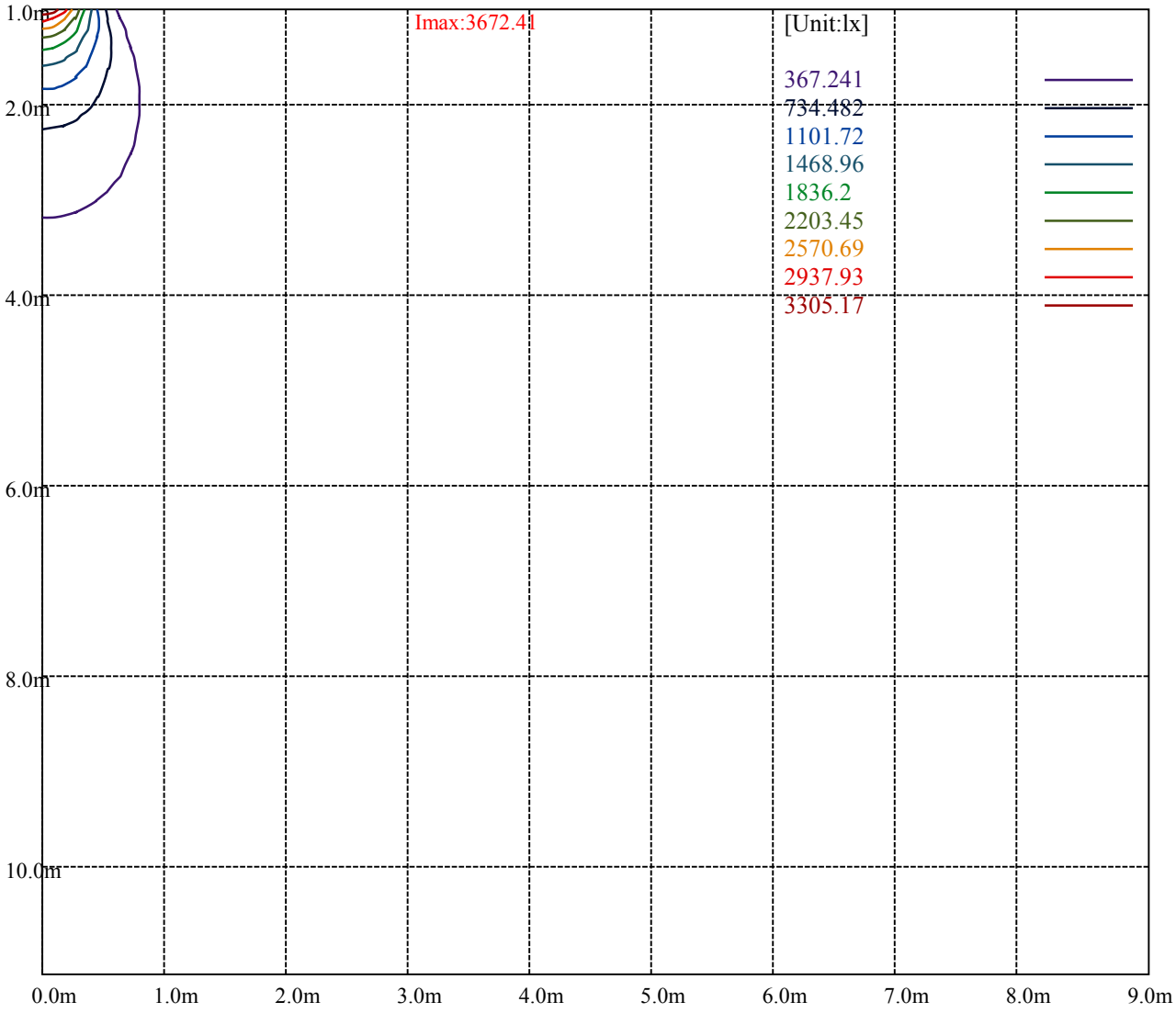
House [Unit:cd] Road

Imax:3672.41

(10%Imax) 367.241
(20%Imax) 734.482
(30%Imax) 1101.72
(40%Imax) 1468.96
(50%Imax) 1836.2
(60%Imax) 2203.45
(70%Imax) 2570.69
(80%Imax) 2937.93
(90%Imax) 3305.17

Equipment: GMS 1800 Date: 2024/8/31 Operator: NT0
Temperature(°C): 25 Humidity(%): 60%

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/8/31
Humidity(%): 60%

Operator: NT0

Luminance Limitting Curve(no luminous side)

Luminance Table

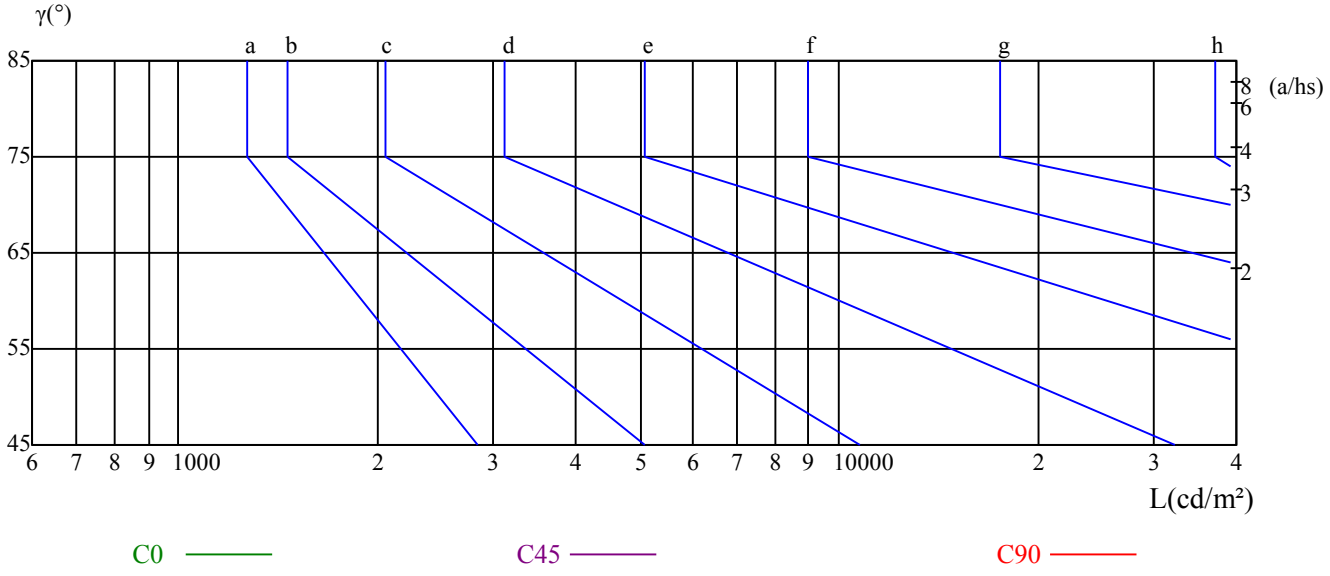
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

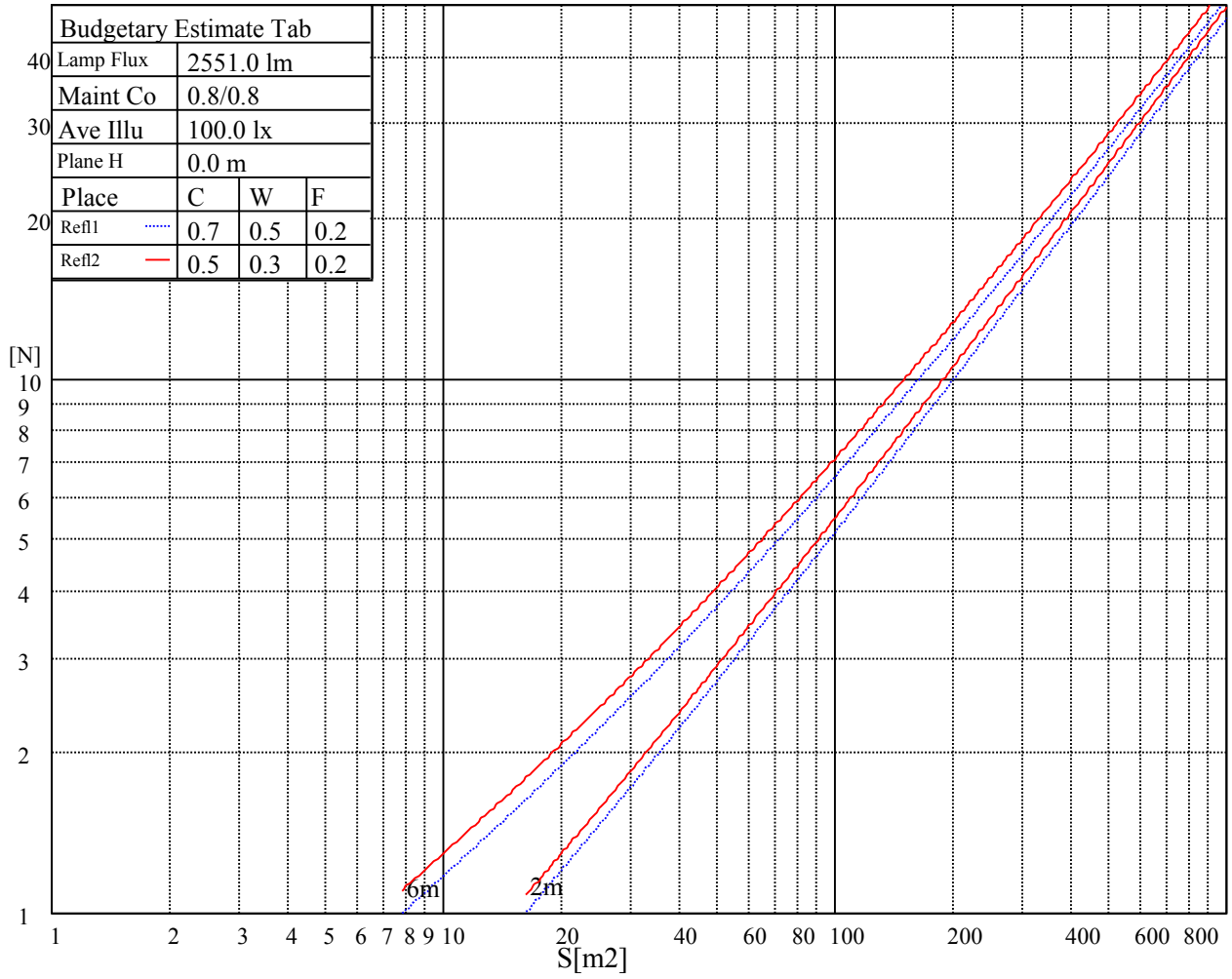


UGR Glare

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

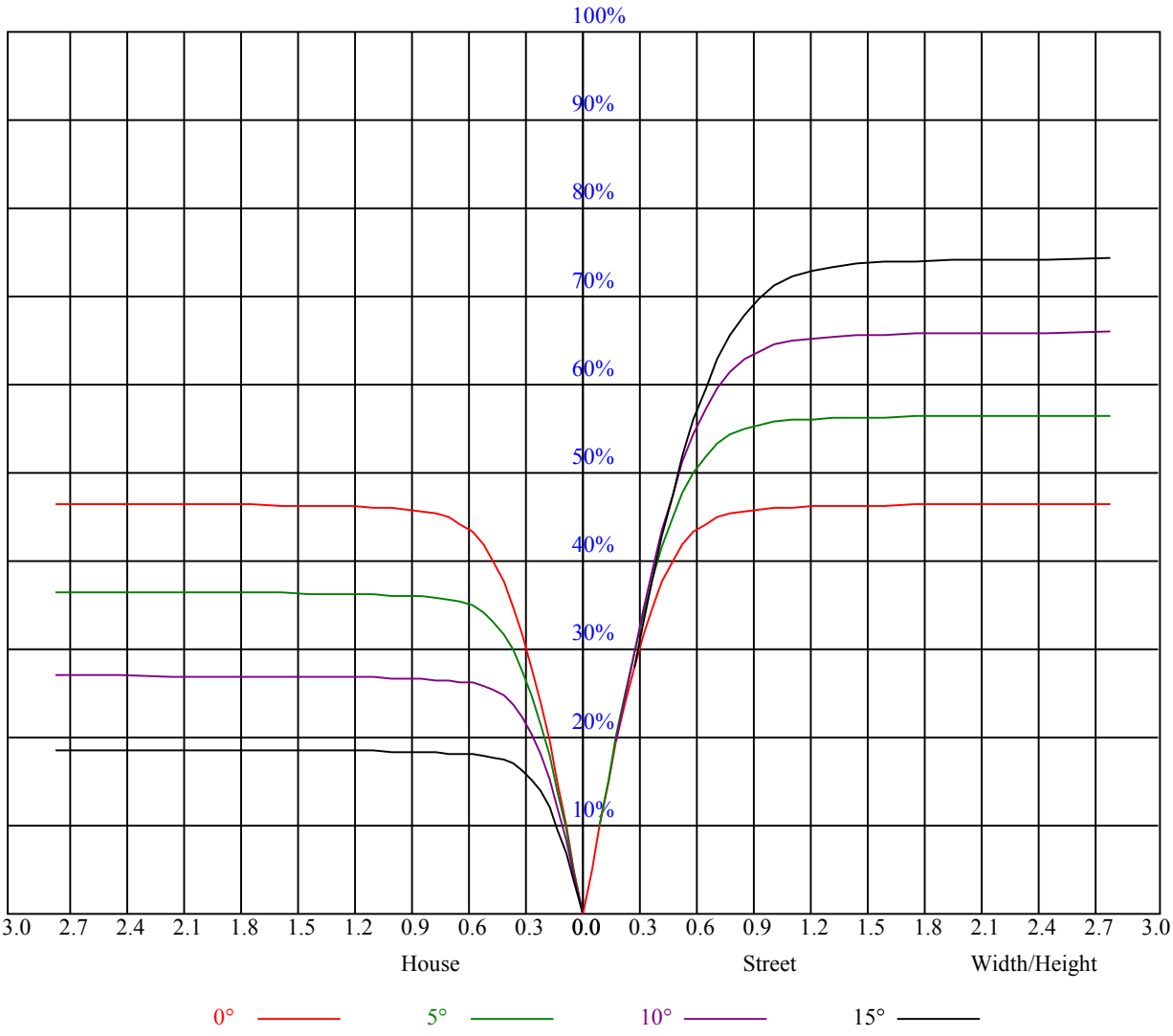


Equipment: GMS 1800 Date: 2024/8/31 Operator: NT0
Temperature(°C): 25 Humidity(%): 60%

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.91	0.96	0.92	0.90	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.91	0.87	0.84	0.90	0.86	0.83	0.88	0.84	0.82	0.85	0.83	0.80	0.83	0.81	0.79	0.78
4	0.86	0.81	0.78	0.85	0.81	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.72	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
9	0.66	0.61	0.57	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.54	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53

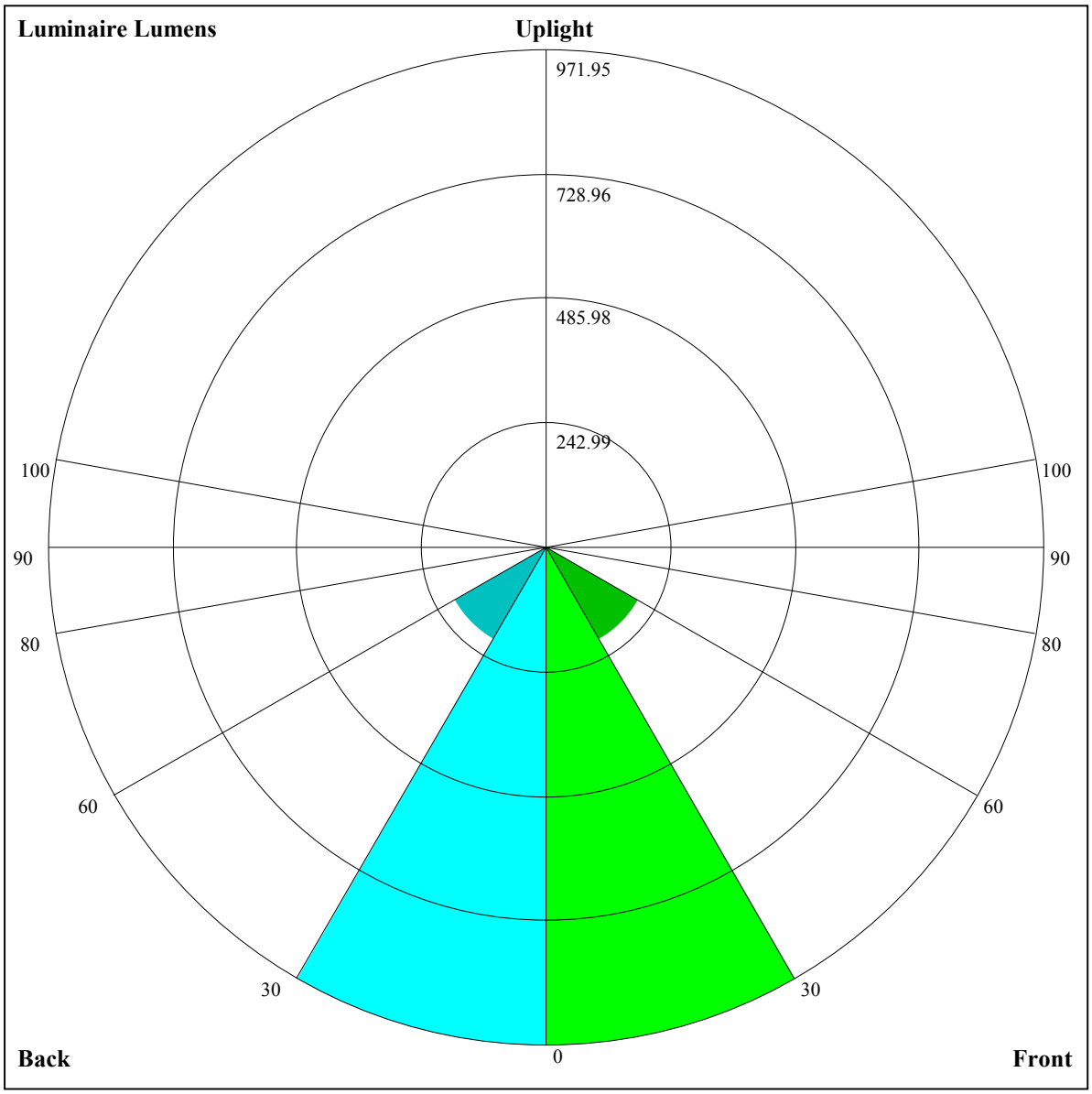
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/8/31
Humidity(%): 60%

Operator: NT0



Luminaire Lumens:
FL=971.95,FM=208.35,FH=8.97,FVH=1.26
BL=971.95,BM=208.35,BH=8.97,BVH=1.26
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	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
45.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
90.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
135.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
180.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
225.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
270.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
315.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41
360.0	3672.41	3669.21	3658.35	3642.89	3624.36	3600.75	3572.12	3535.77	3488.41

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
45.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
90.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
135.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
180.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
225.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
270.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
315.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10
360.0	3435.76	3371.83	3302.38	3221.33	3139.00	3044.07	2952.42	2839.68	2725.10

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
45.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
90.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
135.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
180.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
225.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
270.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
315.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77
360.0	2621.47	2503.55	2378.47	2262.52	2154.01	2031.29	1908.30	1782.31	1660.77

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
45.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
90.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
135.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
180.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
225.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
270.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
315.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89
360.0	1522.67	1351.72	1204.19	1086.66	971.16	823.73	701.29	583.18	487.89

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
45.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
90.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
135.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
180.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
225.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
270.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
315.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27
360.0	404.87	338.04	285.06	229.17	204.78	154.92	121.75	100.35	80.27

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	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
45.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
90.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
135.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
180.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
225.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
270.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
315.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10
360.0	65.66	55.07	46.44	40.17	34.90	31.12	27.95	25.33	23.10

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
45.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
90.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
135.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
180.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
225.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
270.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
315.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69
360.0	21.38	19.57	18.30	17.03	15.89	14.93	14.15	13.39	12.69

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
45.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
90.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
135.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
180.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
225.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
270.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
315.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36
360.0	12.06	11.49	10.98	10.49	10.03	9.59	9.19	8.80	8.36

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
45.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
90.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
135.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
180.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
225.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
270.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
315.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07
360.0	8.03	7.70	7.21	6.69	5.97	5.47	4.95	4.49	4.07

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
45.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
90.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
135.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
180.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
225.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
270.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
315.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17
360.0	3.66	3.25	2.85	2.49	2.14	1.88	1.64	1.39	1.17

Intensity data(cd)

C/γ(°)	90.0
0.0	1.05
45.0	1.05
90.0	1.05
135.0	1.05
180.0	1.05
225.0	1.05
270.0	1.05
315.0	1.05
360.0	1.05