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Nata

Client:
LumCAT: 2-2759-L
Luminaire: 92.70.412.00
Report No: 2024815-B005
Ballast type: AC

Test No: 2024816-C005	Voltage(V): 34.710
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.450
Lamp flux(lm): 2535.0	Power (W): 15.610
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2345.65, Efficiency(%): 92.53% , Luminous Efficacy(lm/W): 150.27
Central intensity(cd): 3486.878, Maximum intensity(cd): 3486.878
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=50.2
[C90/270]Total=50.2
Field angle(10%Imax): [C0/180]Total=74.0
[C90/270]Total=74.0
Maximum s/h(1/2): C0_180=0.79 C90_270=0.79
Maximum s/h(1/4): C0_180=0.78 C90_270=0.78
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.53%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.049%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3486.878	0.000	0	0.00%	0.00%
1.0	3486.799	3.337	3.337	0.13%	0.14%
2.0	3474.138	9.991	13.328	0.39%	0.57%
3.0	3466.201	16.599	29.927	0.65%	1.28%
4.0	3453.238	23.162	53.088	0.91%	2.26%
5.0	3431.510	29.618	82.706	1.17%	3.53%
6.0	3408.527	35.946	118.652	1.42%	5.06%
7.0	3374.329	42.101	160.753	1.66%	6.85%
8.0	3333.862	48.009	208.763	1.89%	8.90%
9.0	3281.083	53.611	262.373	2.11%	11.19%
10.0	3228.284	58.907	321.281	2.32%	13.70%
11.0	3173.533	63.967	385.248	2.52%	16.42%
12.0	3111.135	68.700	453.948	2.71%	19.35%
13.0	3040.103	73.000	526.948	2.88%	22.46%
14.0	2966.424	76.883	603.831	3.03%	25.74%
15.0	2881.174	80.278	684.109	3.17%	29.17%
16.0	2787.081	83.056	767.165	3.28%	32.71%
17.0	2674.676	85.054	852.219	3.36%	36.33%
18.0	2570.700	86.485	938.704	3.41%	40.02%
19.0	2459.682	87.518	1026.223	3.45%	43.75%
20.0	2329.866	87.662	1113.885	3.46%	47.49%
21.0	2211.396	87.201	1201.086	3.44%	51.20%
22.0	2098.085	86.601	1287.687	3.42%	54.90%
23.0	1964.569	85.245	1372.932	3.36%	58.53%
24.0	1853.906	83.486	1456.418	3.29%	62.09%
25.0	1754.595	82.049	1538.467	3.24%	65.59%
26.0	1634.319	79.996	1618.463	3.16%	69.00%
27.0	1507.473	76.865	1695.328	3.03%	72.28%
28.0	1401.467	73.648	1768.976	2.91%	75.42%
29.0	1281.750	70.201	1839.176	2.77%	78.41%
30.0	1131.690	65.162	1904.339	2.57%	81.19%
31.0	1035.941	60.322	1964.661	2.38%	83.76%
32.0	917.111	55.953	2020.614	2.21%	86.14%
33.0	787.833	50.228	2070.842	1.98%	88.28%
34.0	663.122	43.910	2114.752	1.73%	90.16%
35.0	551.985	37.737	2152.489	1.49%	91.77%
36.0	442.425	31.662	2184.151	1.25%	93.12%
37.0	348.897	25.808	2209.959	1.02%	94.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	285.283	21.168	2231.128	0.84%	95.12%
39.0	197.162	16.467	2247.595	0.65%	95.82%
40.0	163.831	12.590	2260.185	0.50%	96.36%
41.0	123.680	10.238	2270.423	0.40%	96.79%
42.0	83.850	7.540	2277.963	0.30%	97.11%
43.0	68.377	5.639	2283.602	0.22%	97.35%
44.0	57.563	4.753	2288.355	0.19%	97.56%
45.0	49.244	4.105	2292.46	0.16%	97.73%
46.0	42.865	3.602	2296.062	0.14%	97.89%
47.0	37.622	3.201	2299.263	0.13%	98.02%
48.0	33.259	2.865	2302.129	0.11%	98.14%
49.0	29.566	2.580	2304.708	0.10%	98.25%
50.0	26.518	2.338	2307.047	0.09%	98.35%
51.0	24.047	2.139	2309.186	0.08%	98.45%
52.0	22.135	1.982	2311.168	0.08%	98.53%
53.0	20.283	1.845	2313.013	0.07%	98.61%
54.0	18.771	1.721	2314.734	0.07%	98.68%
55.0	17.595	1.623	2316.358	0.06%	98.75%
56.0	16.426	1.537	2317.895	0.06%	98.82%
57.0	15.519	1.461	2319.356	0.06%	98.88%
58.0	14.494	1.388	2320.744	0.05%	98.94%
59.0	13.739	1.320	2322.063	0.05%	98.99%
60.0	12.996	1.263	2323.327	0.05%	99.05%
61.0	12.359	1.210	2324.537	0.05%	99.10%
62.0	12.359	1.191	2325.728	0.05%	99.15%
63.0	12.464	1.207	2326.935	0.05%	99.20%
64.0	12.438	1.222	2328.157	0.05%	99.25%
65.0	12.464	1.232	2329.389	0.05%	99.31%
66.0	12.418	1.241	2330.63	0.05%	99.36%
67.0	12.286	1.242	2331.873	0.05%	99.41%
68.0	11.991	1.230	2333.103	0.05%	99.47%
69.0	11.557	1.201	2334.304	0.05%	99.52%
70.0	11.163	1.167	2335.471	0.05%	99.57%
71.0	10.453	1.117	2336.588	0.04%	99.61%
72.0	9.507	1.038	2337.626	0.04%	99.66%
73.0	8.423	0.938	2338.563	0.04%	99.70%
74.0	7.359	0.830	2339.393	0.03%	99.73%
75.0	6.485	0.731	2340.125	0.03%	99.76%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.808	0.653	2340.777	0.03%	99.79%
77.0	5.237	0.589	2341.366	0.02%	99.82%
78.0	4.809	0.538	2341.904	0.02%	99.84%
79.0	4.396	0.495	2342.398	0.02%	99.86%
80.0	4.021	0.454	2342.852	0.02%	99.88%
81.0	3.712	0.418	2343.27	0.02%	99.90%
82.0	3.384	0.385	2343.655	0.02%	99.92%
83.0	3.068	0.351	2344.006	0.01%	99.93%
84.0	2.740	0.316	2344.322	0.01%	99.94%
85.0	2.457	0.284	2344.606	0.01%	99.96%
86.0	2.227	0.256	2344.862	0.01%	99.97%
87.0	1.991	0.231	2345.093	0.01%	99.98%
88.0	1.774	0.206	2345.299	0.01%	99.99%
89.0	1.564	0.183	2345.482	0.01%	99.99%
90.0	1.432	0.164	2345.646	0.01%	100.00%

Zonal flux distribution table

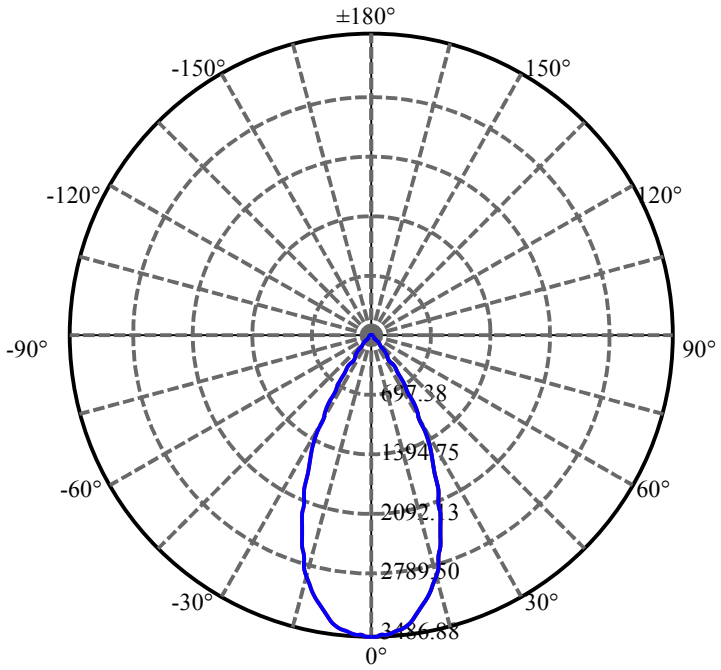
ZONAL LUMEN SUMMARY

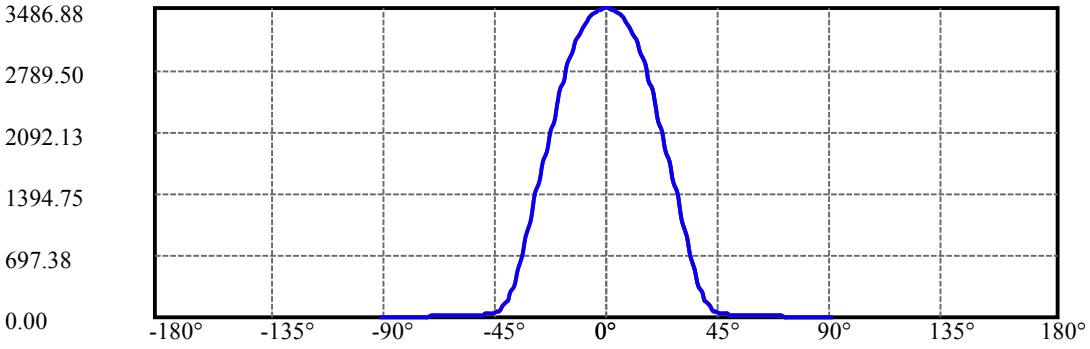
Zone	Lumens	%Lamp	%Fixt
0-30	1904.34	75.12%	81.19%
0-40	2260.18	89.16%	96.36%
0-60	2323.33	91.65%	99.05%
0-90	2345.48	92.52%	99.99%
0-120	2345.48	92.52%	99.99%
0-180	2345.65	92.53%	100.00%
60-90	22.16	0.87%	0.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.57	1876.52	74.02%	80.00%

ZONAL LUMEN SUMMARY

0-10	321.28
10-20	792.60
20-30	790.45
30-40	355.85
40-50	46.86
50-60	16.28
60-70	12.14
70-80	7.38
80-90	2.63
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):

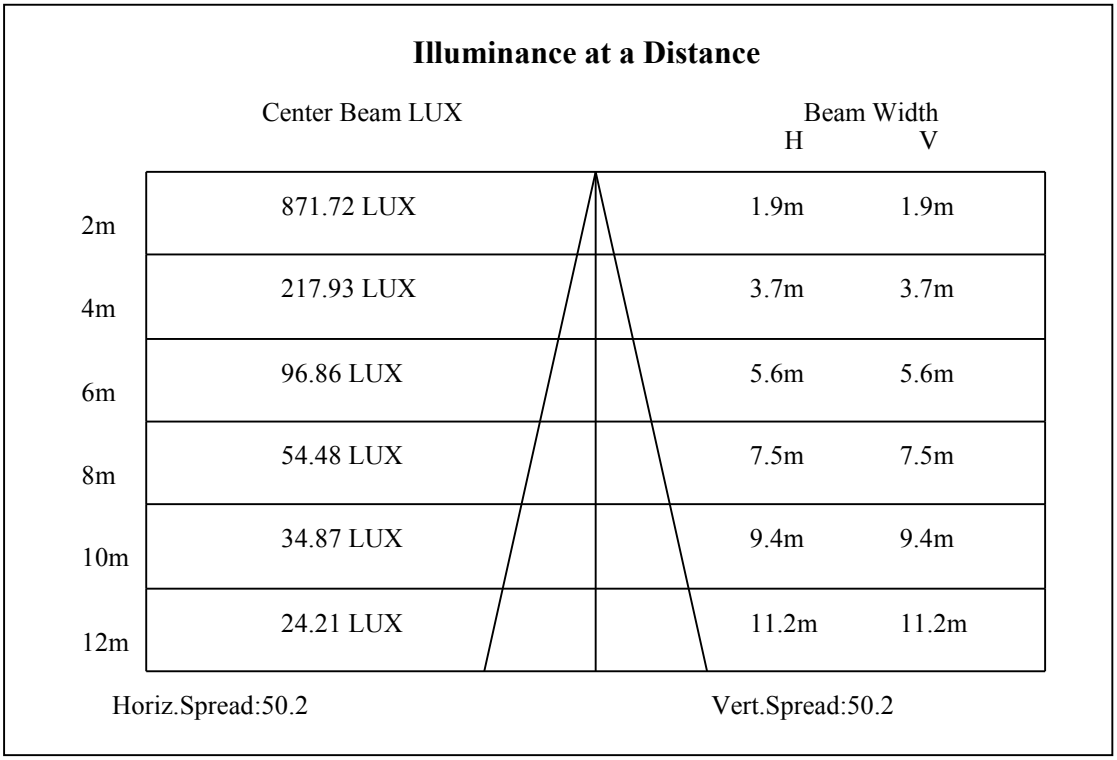
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:37.0 Right:37.0
:C90/270Left:37.0 Right:37.0

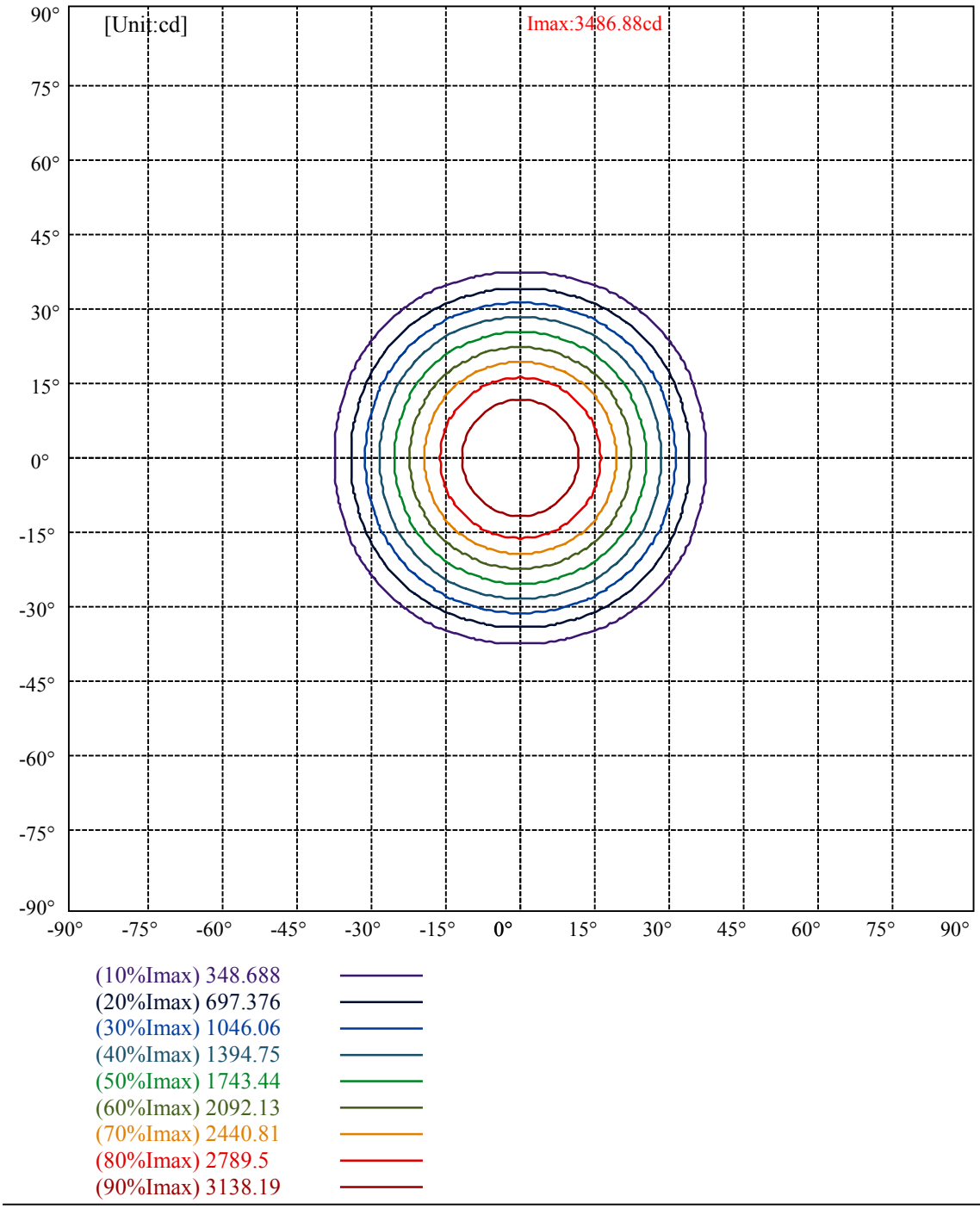
Beam Angle(50%Imax):C0/180Left:25.1 Right:25.1
:C90/270Left:25.1 Right:25.1

Lux distance Curve



Equipment: GMS 1800 Date: 2024/8/16 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

ISO-Intensity(V-H)



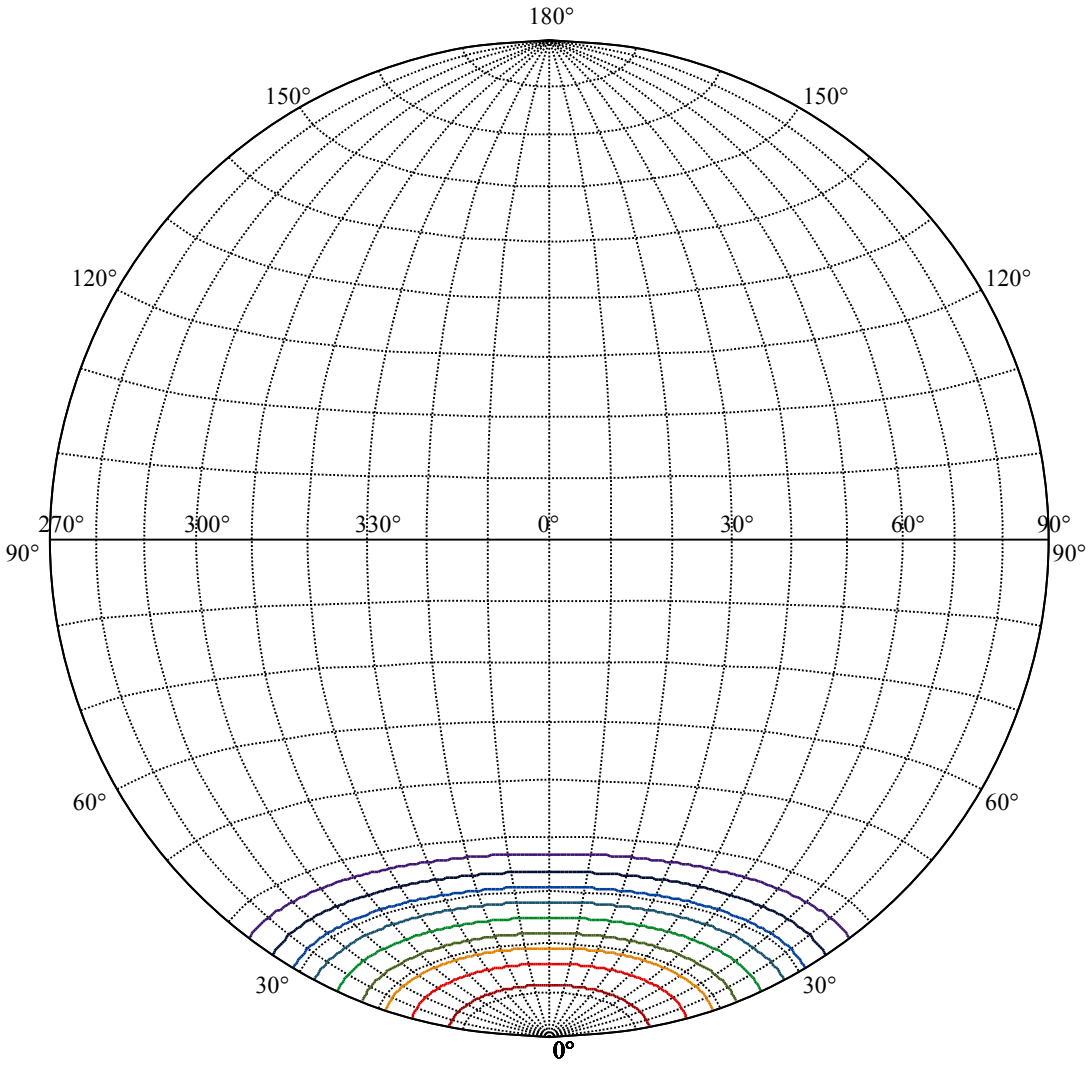
(10%Imax) 348.688
(20%Imax) 697.376
(30%Imax) 1046.06
(40%Imax) 1394.75
(50%Imax) 1743.44
(60%Imax) 2092.13
(70%Imax) 2440.81
(80%Imax) 2789.5
(90%Imax) 3138.19

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3486.88

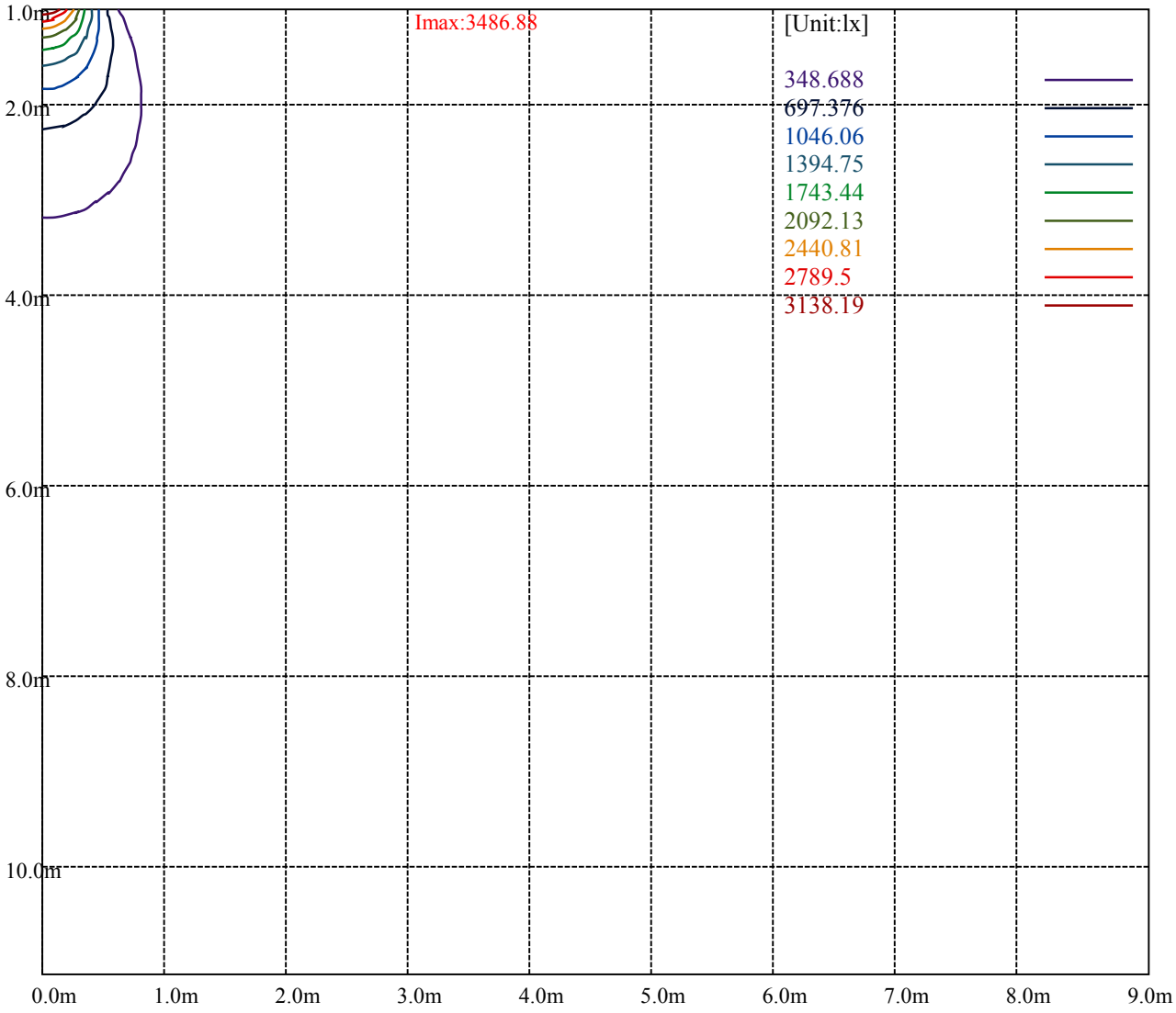
(10%Imax) 348.688
(20%Imax) 697.376
(30%Imax) 1046.06
(40%Imax) 1394.75
(50%Imax) 1743.44
(60%Imax) 2092.13
(70%Imax) 2440.81
(80%Imax) 2789.5
(90%Imax) 3138.19

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2759-L

Luminance Limitting Curve(no luminous side)

Luminance Table

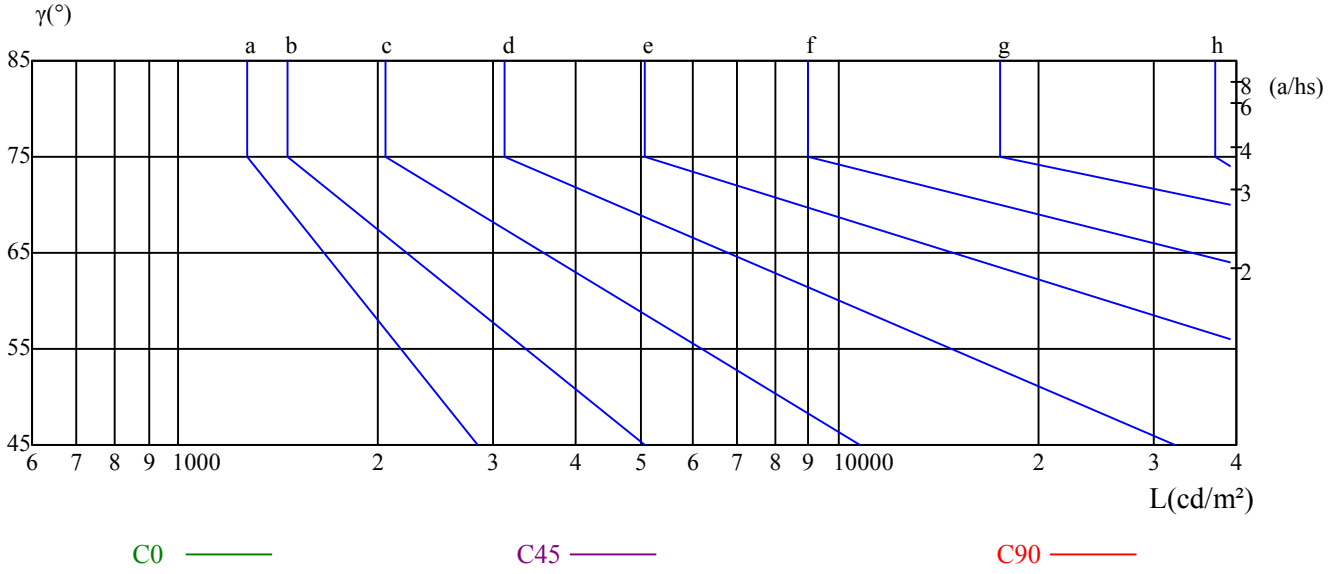
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: GMS 1800
Temperature(°C): 25.0

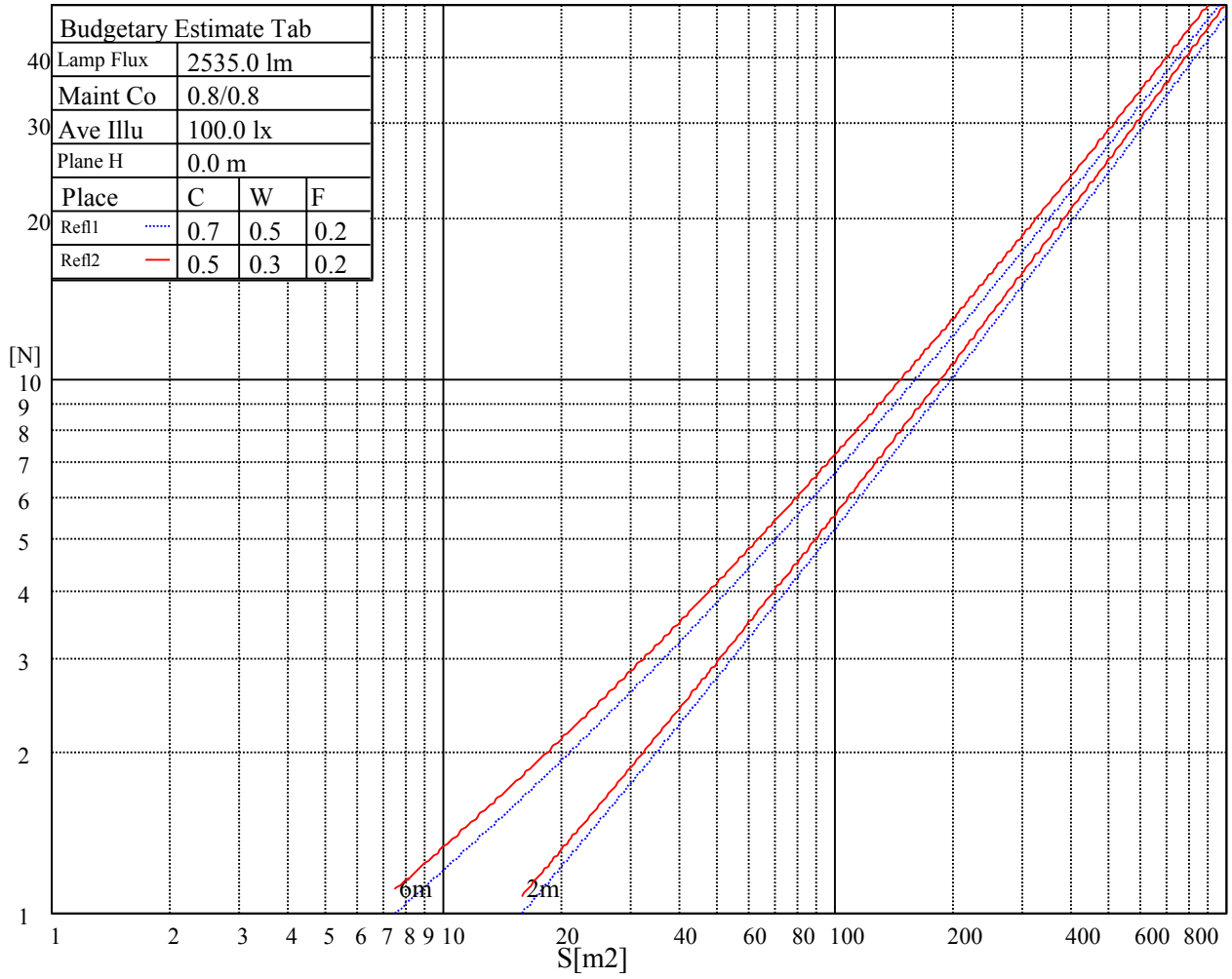
Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

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
Temperature(°C): 25.0

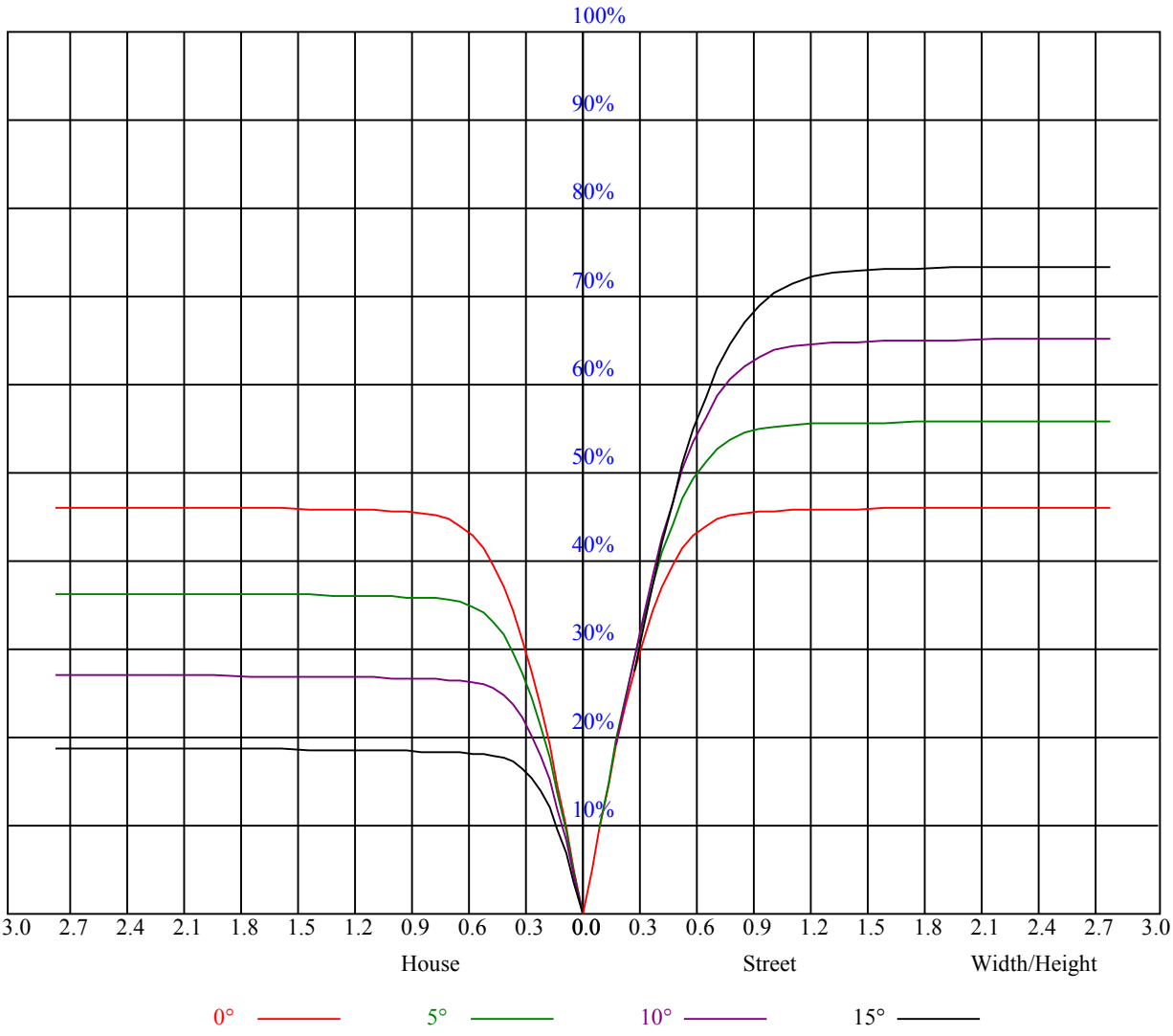
Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

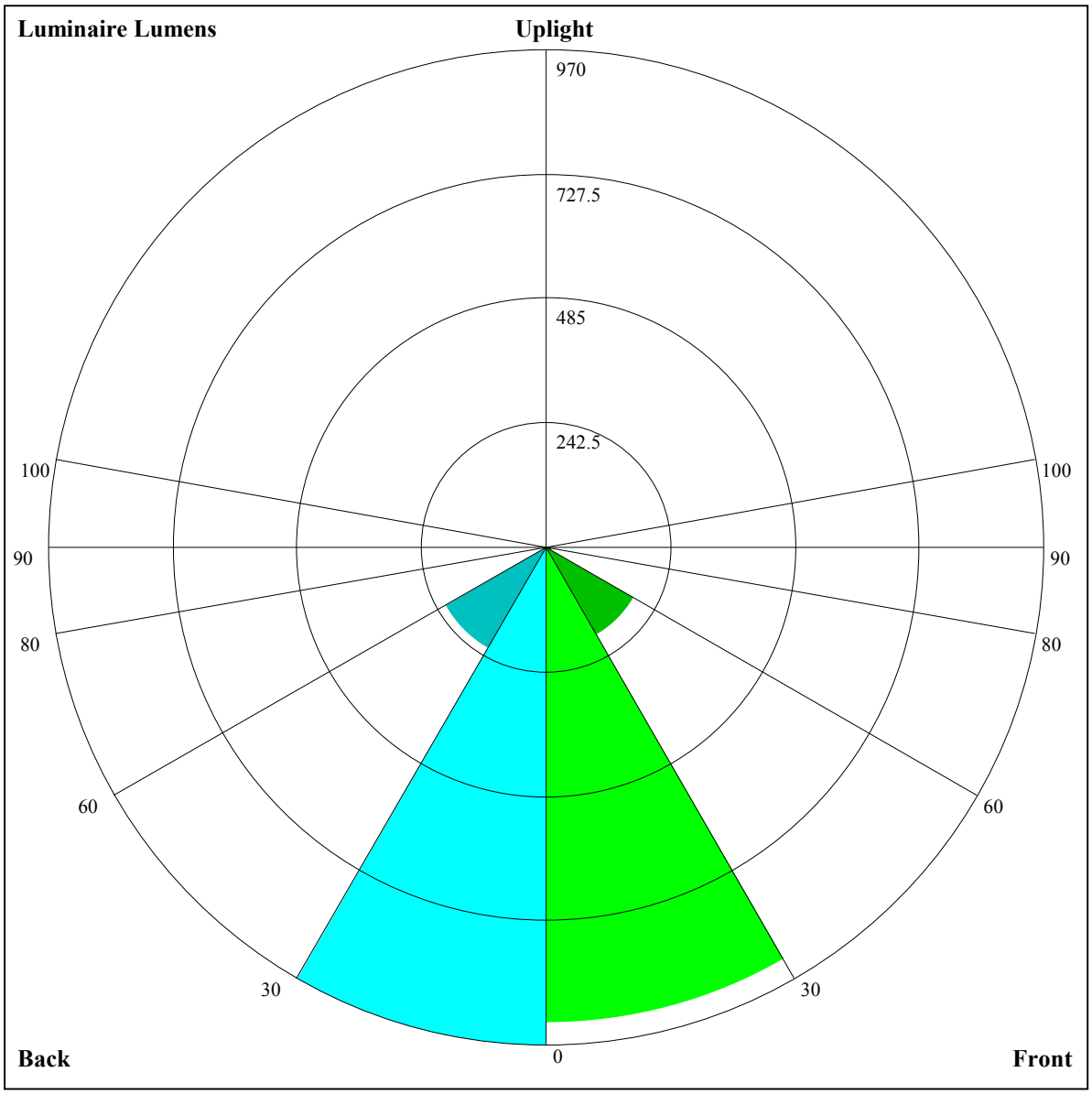
Utilization factor table for indoor luminaire

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.93
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.87
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.82
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.77
4	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.72
5	0.80	0.75	0.72	0.80	0.75	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.68
6	0.76	0.71	0.67	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.64
7	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.56	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/8/16	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=927.85,FM=198.47,FH=10.73,FVH=1.44
BL=970,BM=226.85,BH=8.92,BVH=1.37
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	3468.65	3465.29	3430.75	3404.00	3388.39	3336.56	3304.81	3252.99	3197.85
45.0	3492.57	3489.78	3461.40	3435.22	3396.75	3348.28	3311.49	3252.99	3200.64
90.0	3494.83	3487.00	3451.94	3427.39	3399.53	3346.60	3304.81	3265.29	3208.42
135.0	3491.46	3505.39	3508.18	3513.22	3505.39	3482.00	3451.94	3414.04	3369.99
180.0	3468.65	3488.68	3496.51	3500.40	3515.43	3500.93	3480.32	3459.72	3435.22
225.0	3492.57	3474.75	3473.65	3486.47	3483.68	3500.40	3498.72	3465.87	3421.82
270.0	3494.83	3498.14	3483.11	3479.22	3468.65	3479.80	3477.01	3475.85	3462.50
315.0	3491.46	3485.37	3487.57	3483.68	3468.07	3457.51	3439.11	3407.89	3374.46
360.0	3468.65	3465.29	3430.75	3404.00	3388.39	3336.56	3304.81	3252.99	3197.85

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3127.10	3084.74	3022.34	2959.95	2885.26	2798.90	2711.44	2598.90	2491.36
45.0	3127.10	3051.31	3004.53	2952.12	2870.23	2784.45	2676.90	2610.04	2437.90
90.0	3148.28	3076.38	3002.26	2928.20	2829.02	2745.44	2640.69	2520.90	2381.61
135.0	3319.85	3285.89	3233.49	3164.42	3095.88	3016.19	2933.78	2843.47	2744.34
180.0	3397.32	3356.06	3307.60	3254.67	3193.96	3126.00	3052.99	2963.84	2868.55
225.0	3362.79	3301.50	3255.77	3186.13	3109.28	3036.85	2953.28	2855.20	2757.11
270.0	3429.07	3385.60	3331.57	3275.27	3231.28	3181.14	3111.49	3026.23	2944.34
315.0	3337.14	3284.79	3230.70	3168.31	3105.92	3042.42	2968.84	2878.06	2772.20
360.0	3127.10	3084.74	3022.34	2959.95	2885.26	2798.90	2711.44	2598.90	2491.36

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2385.50	2267.97	2148.70	2036.17	1971.51	1817.19	1709.12	1646.73	1508.54
45.0	2306.97	2233.96	2116.95	2001.05	1875.17	1769.83	1674.01	1570.36	1471.22
90.0	2252.36	2120.84	1986.60	1863.45	1752.59	1648.94	1543.66	1486.26	1377.61
135.0	2636.80	2517.53	2394.43	2262.92	2126.99	2019.45	1893.51	1787.13	1672.33
180.0	2768.83	2674.70	2526.47	2398.32	2294.14	2166.52	2046.73	1930.88	1817.77
225.0	2649.62	2535.40	2397.22	2254.04	2144.81	1987.70	1855.09	1755.90	1611.04
270.0	2856.30	2795.01	2615.62	2542.08	2410.57	2218.93	2142.61	2014.98	1894.67
315.0	2709.23	2532.04	2452.93	2333.14	2208.89	2087.99	1966.52	1844.52	1721.37
360.0	2385.50	2267.97	2148.70	2036.17	1971.51	1817.19	1709.12	1646.73	1508.54

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1443.89	1271.17	1081.63	1022.97	880.26	748.60	626.39	503.65	390.38
45.0	1368.15	1243.89	1125.21	1006.52	891.78	772.51	643.84	525.68	417.03
90.0	1071.59	1071.59	988.12	856.61	725.20	599.95	479.58	371.04	277.37
135.0	1564.79	1452.25	1319.11	1192.06	1050.57	911.80	776.40	642.68	522.89
180.0	1708.02	1594.90	1485.15	1377.03	1250.57	1119.06	983.13	847.20	719.58
225.0	1516.32	1411.57	1312.96	1057.72	1057.72	985.39	861.13	740.92	624.34
270.0	1781.55	1670.65	1560.90	1463.39	1354.22	1230.49	1098.45	970.30	841.63
315.0	1605.47	1495.72	1380.92	1077.22	1077.22	969.09	833.75	703.50	622.66
360.0	1443.89	1271.17	1081.63	1022.97	880.26	748.60	626.39	503.65	390.38

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	289.41	204.05	148.12	118.16	95.03	76.58	67.81	54.82	50.30
45.0	321.21	321.21	285.57	135.24	109.91	89.99	74.59	64.23	56.19
90.0	200.21	145.39	111.27	89.46	73.11	61.45	54.72	47.62	40.32
135.0	407.04	303.97	303.97	144.39	118.79	92.93	68.80	60.45	51.09
180.0	594.22	476.69	365.26	302.81	302.81	139.40	101.45	81.37	66.44
225.0	513.43	407.31	313.33	227.81	158.79	112.22	95.19	77.69	64.60
270.0	710.12	583.65	464.97	354.64	312.85	312.85	126.47	95.87	77.63
315.0	503.76	348.91	289.78	204.78	139.34	104.02	81.79	64.97	53.93
360.0	289.41	204.05	148.12	118.16	95.03	76.58	67.81	54.82	50.30

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	43.84	38.58	34.11	30.54	27.60	25.18	23.13	21.34	19.71
45.0	49.41	43.52	38.53	34.53	31.12	28.23	25.97	24.70	22.13
90.0	36.37	32.17	28.86	26.07	23.65	21.71	20.08	18.61	17.29
135.0	43.99	38.11	33.53	29.65	26.39	23.81	21.81	20.13	18.66
180.0	55.03	47.67	41.42	36.32	31.96	28.38	25.55	23.34	21.45
225.0	54.82	47.78	41.89	36.69	32.22	28.49	25.60	23.34	21.29
270.0	64.23	55.19	47.83	41.79	36.74	32.22	28.54	25.76	23.34
315.0	46.26	39.89	34.80	30.49	26.86	24.13	21.71	19.87	18.40
360.0	43.84	38.58	34.11	30.54	27.60	25.18	23.13	21.34	19.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.45	17.19	16.14	15.14	14.30	13.51	12.83	12.30	13.19
45.0	20.45	19.61	18.29	17.14	16.14	15.09	14.24	13.61	13.77
90.0	16.14	15.19	14.24	13.35	12.62	11.98	11.41	11.25	13.40
135.0	17.29	16.24	15.30	14.40	13.56	13.04	12.25	11.67	11.20
180.0	19.87	18.76	17.24	16.40	15.40	14.40	13.82	13.04	12.30
225.0	19.55	18.19	17.08	16.03	14.98	13.98	13.14	12.30	11.56
270.0	21.34	19.66	18.19	17.35	15.72	15.09	14.09	13.19	12.46
315.0	17.08	15.93	14.93	14.35	13.25	12.83	12.19	11.51	10.99
360.0	18.45	17.19	16.14	15.14	14.30	13.51	12.83	12.30	13.19

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.82	14.40	14.98	15.45	15.72	15.72	15.40	14.77	12.83
45.0	15.93	17.40	18.45	19.34	20.03	19.87	19.13	18.87	18.45
90.0	14.45	14.88	15.77	16.08	16.29	16.29	16.14	15.93	14.93
135.0	10.72	10.35	10.04	9.67	9.30	8.83	8.52	8.25	7.67
180.0	11.67	11.14	10.62	10.14	9.67	9.25	8.62	8.20	7.78
225.0	11.04	10.30	9.78	9.46	8.99	8.62	8.09	7.62	7.15
270.0	11.67	10.99	10.41	9.88	9.41	8.83	8.46	7.99	7.52
315.0	10.41	10.04	9.67	9.30	8.88	8.52	8.09	7.67	7.31
360.0	13.82	14.40	14.98	15.45	15.72	15.72	15.40	14.77	12.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.83	9.25	7.94	6.78	5.78	5.20	4.78	4.47	4.05
45.0	17.71	15.30	12.19	9.51	8.09	6.62	5.52	4.73	4.26
90.0	12.40	9.72	7.41	6.04	5.05	4.63	4.21	3.84	3.57
135.0	6.99	6.57	6.20	5.83	5.41	4.89	4.63	4.21	3.84
180.0	7.46	7.10	6.68	6.25	5.83	5.41	4.99	4.73	4.26
225.0	6.62	6.15	5.89	5.57	5.15	4.78	4.47	4.10	3.84
270.0	7.10	6.73	6.36	5.94	5.62	5.26	5.05	4.63	4.26
315.0	6.94	6.57	6.20	5.94	5.52	5.10	4.84	4.47	4.10
360.0	10.83	9.25	7.94	6.78	5.78	5.20	4.78	4.47	4.05

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.78	3.57	3.10	2.79	2.63	2.31	2.10	1.89	1.58
45.0	3.89	3.57	3.21	2.94	2.68	2.37	2.10	1.84	1.52
90.0	3.26	3.00	2.73	2.47	2.31	2.16	2.00	1.79	1.79
135.0	3.47	3.21	2.94	2.52	2.16	2.05	1.79	1.68	1.37
180.0	4.05	3.63	3.26	3.00	2.63	2.37	2.05	1.79	1.68
225.0	3.42	3.15	2.89	2.52	2.21	2.00	1.68	1.47	1.31
270.0	4.05	3.57	3.26	2.89	2.52	2.31	2.16	1.94	1.68
315.0	3.78	3.36	3.15	2.79	2.52	2.26	2.05	1.79	1.58
360.0	3.78	3.57	3.10	2.79	2.63	2.31	2.10	1.89	1.58

Intensity data(cd)

C/γ(°)	90.0
0.0	1.58
45.0	1.47
90.0	1.79
135.0	1.21
180.0	1.42
225.0	1.16
270.0	1.47
315.0	1.37
360.0	1.58