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Nata

Client:
LumCAT: 2-2755-L
Luminaire: 92.70.411.00
Report No: 2024829-B014
Ballast type: AC

Test No: 2024829-C014	Voltage(V): 34.970
LampCAT: Fortimo_SLM_C_1208	Current(A): 0.598
Lamp flux(lm): 3408.0	Power (W): 20.910
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3199.53, Efficiency(%): 93.88% , Luminous Efficacy(lm/W): 153.01
Central intensity(cd): 11284.240, Maximum intensity(cd): 11384.660
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=25.2
[C90/270]Total=25.2
Field angle(10%Imax): [C0/180]Total=56.0
[C90/270]Total=56.0
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.44 C90_270=0.44
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.88%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.058%

Nata 2-2755-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11284.236	0.000	0	0.00%	0.00%
1.0	11384.663	10.847	10.847	0.32%	0.34%
2.0	11181.680	32.389	43.236	0.95%	1.35%
3.0	10883.979	52.774	96.01	1.55%	3.00%
4.0	10548.499	71.741	167.751	2.11%	5.24%
5.0	10149.365	89.041	256.792	2.61%	8.03%
6.0	9638.162	103.989	360.781	3.05%	11.28%
7.0	9061.151	116.066	476.847	3.41%	14.90%
8.0	8493.193	125.633	602.48	3.69%	18.83%
9.0	7873.357	132.642	735.122	3.89%	22.98%
10.0	7263.257	136.981	872.103	4.02%	27.26%
11.0	6691.752	139.439	1011.542	4.09%	31.62%
12.0	6029.839	139.065	1150.608	4.08%	35.96%
13.0	5423.997	135.928	1286.536	3.99%	40.21%
14.0	4873.792	131.811	1418.347	3.87%	44.33%
15.0	4333.699	126.405	1544.751	3.71%	48.28%
16.0	3839.145	119.755	1664.506	3.51%	52.02%
17.0	3397.318	112.691	1777.197	3.31%	55.55%
18.0	3070.116	106.634	1883.831	3.13%	58.88%
19.0	2772.882	101.656	1985.487	2.98%	62.06%
20.0	2492.376	96.369	2081.856	2.83%	65.07%
21.0	2266.758	91.385	2173.241	2.68%	67.92%
22.0	2010.259	85.948	2259.19	2.52%	70.61%
23.0	1812.946	80.221	2339.411	2.35%	73.12%
24.0	1657.775	75.882	2415.293	2.23%	75.49%
25.0	1482.630	71.406	2486.699	2.10%	77.72%
26.0	1384.615	67.682	2554.381	1.99%	79.84%
27.0	1256.566	64.617	2618.998	1.90%	81.86%
28.0	1134.089	60.526	2679.524	1.78%	83.75%
29.0	1034.476	56.736	2736.26	1.66%	85.52%
30.0	909.647	52.491	2788.751	1.54%	87.16%
31.0	796.355	47.476	2836.227	1.39%	88.65%
32.0	682.866	42.378	2878.605	1.24%	89.97%
33.0	584.416	37.335	2915.939	1.10%	91.14%
34.0	489.488	32.500	2948.439	0.95%	92.15%
35.0	414.363	28.070	2976.509	0.82%	93.03%
36.0	349.935	24.335	3000.844	0.71%	93.79%
37.0	298.049	21.134	3021.978	0.62%	94.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	254.238	18.435	3040.413	0.54%	95.03%
39.0	215.618	16.037	3056.45	0.47%	95.53%
40.0	189.659	14.135	3070.585	0.41%	95.97%
41.0	147.195	11.995	3082.58	0.35%	96.34%
42.0	123.384	9.831	3092.41	0.29%	96.65%
43.0	105.624	8.483	3100.894	0.25%	96.92%
44.0	89.015	7.346	3108.24	0.22%	97.15%
45.0	76.952	6.378	3114.618	0.19%	97.35%
46.0	67.365	5.644	3120.262	0.17%	97.52%
47.0	59.685	5.053	3125.315	0.15%	97.68%
48.0	54.218	4.605	3129.92	0.14%	97.82%
49.0	49.691	4.267	3134.187	0.13%	97.96%
50.0	46.229	3.999	3138.186	0.12%	98.08%
51.0	43.075	3.778	3141.964	0.11%	98.20%
52.0	40.723	3.596	3145.56	0.11%	98.31%
53.0	38.469	3.445	3149.005	0.10%	98.42%
54.0	36.419	3.301	3152.306	0.10%	98.52%
55.0	34.402	3.161	3155.467	0.09%	98.62%
56.0	32.536	3.025	3158.492	0.09%	98.72%
57.0	31.058	2.908	3161.399	0.09%	98.81%
58.0	29.304	2.791	3164.191	0.08%	98.90%
59.0	27.687	2.664	3166.855	0.08%	98.98%
60.0	25.986	2.536	3169.391	0.07%	99.06%
61.0	24.514	2.410	3171.801	0.07%	99.13%
62.0	22.944	2.287	3174.088	0.07%	99.20%
63.0	21.248	2.149	3176.237	0.06%	99.27%
64.0	19.816	2.015	3178.252	0.06%	99.34%
65.0	18.403	1.891	3180.143	0.06%	99.39%
66.0	17.201	1.776	3181.92	0.05%	99.45%
67.0	15.926	1.666	3183.585	0.05%	99.50%
68.0	14.626	1.548	3185.133	0.05%	99.55%
69.0	13.384	1.429	3186.562	0.04%	99.59%
70.0	12.378	1.323	3187.885	0.04%	99.64%
71.0	11.321	1.225	3189.11	0.04%	99.67%
72.0	10.368	1.128	3190.238	0.03%	99.71%
73.0	9.428	1.035	3191.273	0.03%	99.74%
74.0	8.614	0.949	3192.221	0.03%	99.77%
75.0	7.917	0.873	3193.095	0.03%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.194	0.802	3193.897	0.02%	99.82%
77.0	6.544	0.732	3194.63	0.02%	99.85%
78.0	5.972	0.670	3195.3	0.02%	99.87%
79.0	5.427	0.612	3195.912	0.02%	99.89%
80.0	4.901	0.557	3196.469	0.02%	99.90%
81.0	4.409	0.503	3196.972	0.01%	99.92%
82.0	3.955	0.454	3197.426	0.01%	99.93%
83.0	3.476	0.404	3197.83	0.01%	99.95%
84.0	3.055	0.356	3198.186	0.01%	99.96%
85.0	2.661	0.312	3198.498	0.01%	99.97%
86.0	2.267	0.269	3198.767	0.01%	99.98%
87.0	1.965	0.232	3198.999	0.01%	99.98%
88.0	1.689	0.200	3199.199	0.01%	99.99%
89.0	1.491	0.174	3199.373	0.01%	100.00%
90.0	1.327	0.155	3199.528	0.00%	100.00%

Zonal flux distribution table

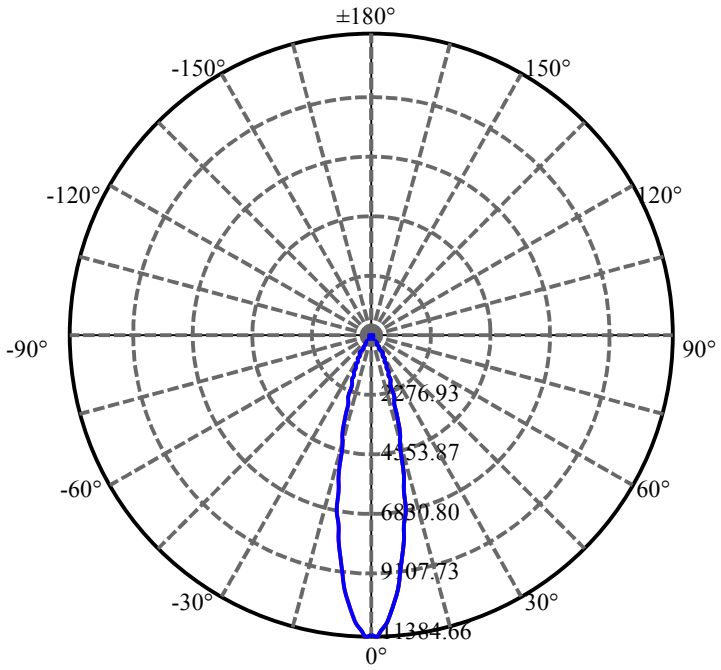
ZONAL LUMEN SUMMARY

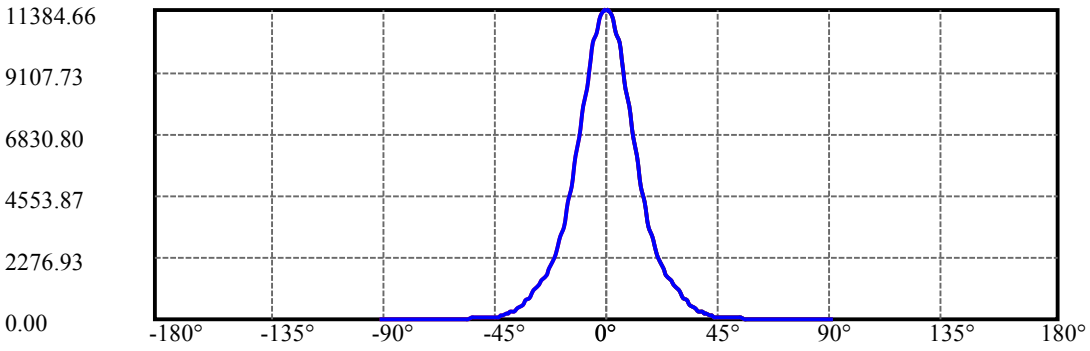
Zone	Lumens	%Lamp	%Fixt
0-30	2788.75	81.83%	87.16%
0-40	3070.58	90.10%	95.97%
0-60	3169.39	93.00%	99.06%
0-90	3199.37	93.88%	100.00%
0-120	3199.37	93.88%	100.00%
0-180	3199.53	93.88%	100.00%
60-90	29.98	0.88%	0.94%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.08	2559.62	75.11%	80.00%

ZONAL LUMEN SUMMARY

0-10	872.10
10-20	1209.75
20-30	706.89
30-40	281.83
40-50	67.60
50-60	31.20
60-70	18.49
70-80	8.58
80-90	2.90
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):

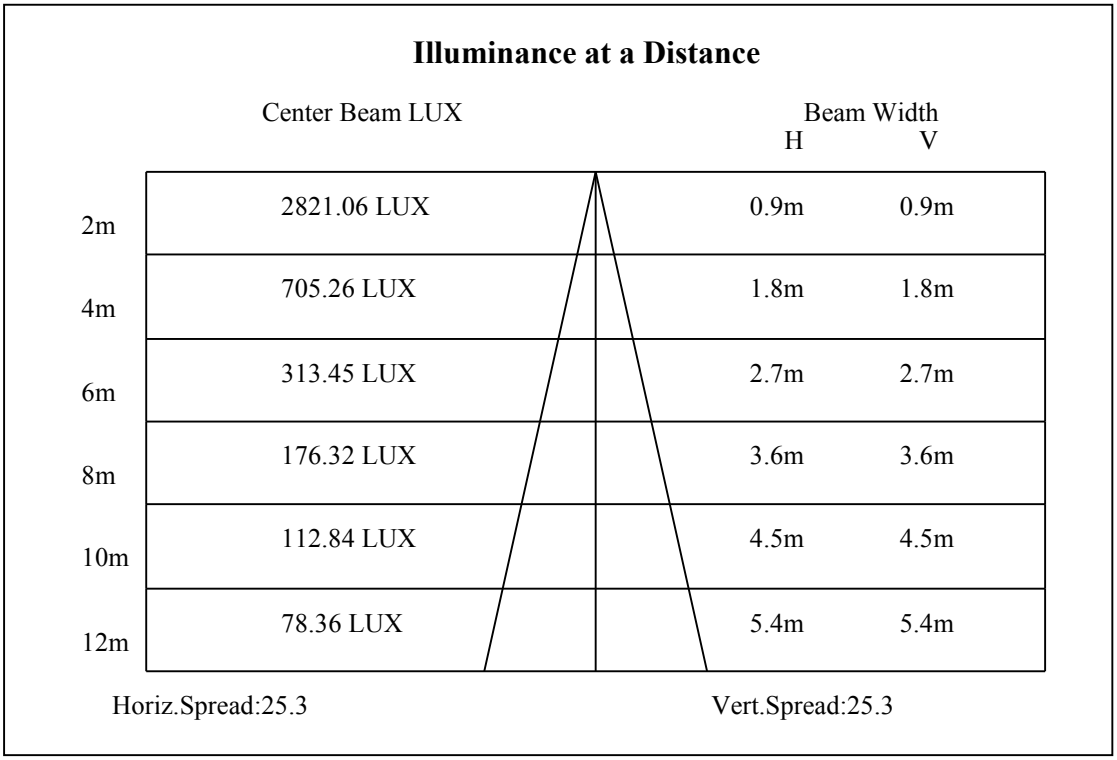
C0/C180:

C90/C270:

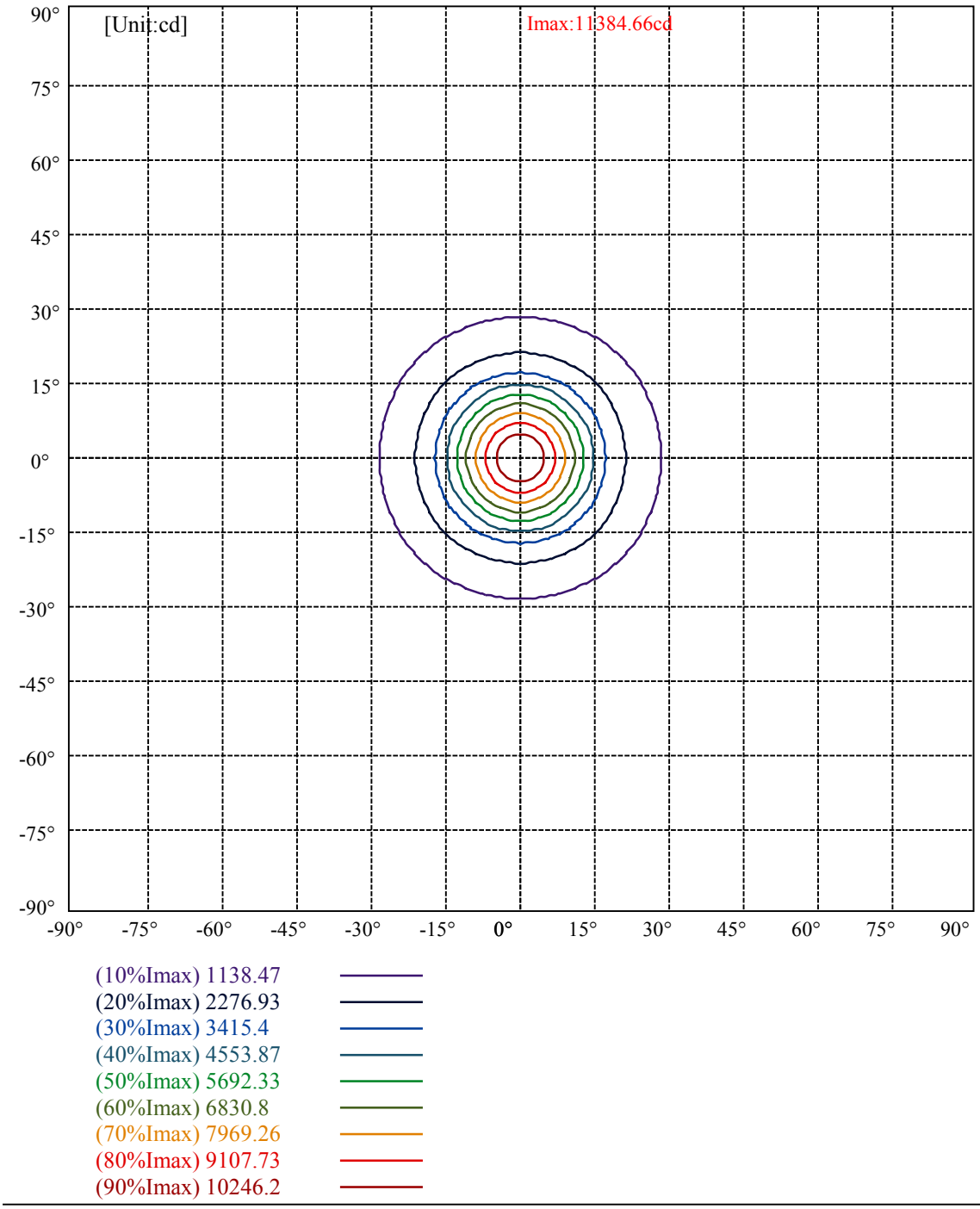
Field angle(10%Imax):C0/180Left:29.0 Right:27.0
:C90/270Left:29.0 Right:27.0

Beam Angle(50%Imax):C0/180Left:13.6 Right:11.6
:C90/270Left:13.6 Right:11.6

Lux distance Curve



ISO-Intensity(V-H)



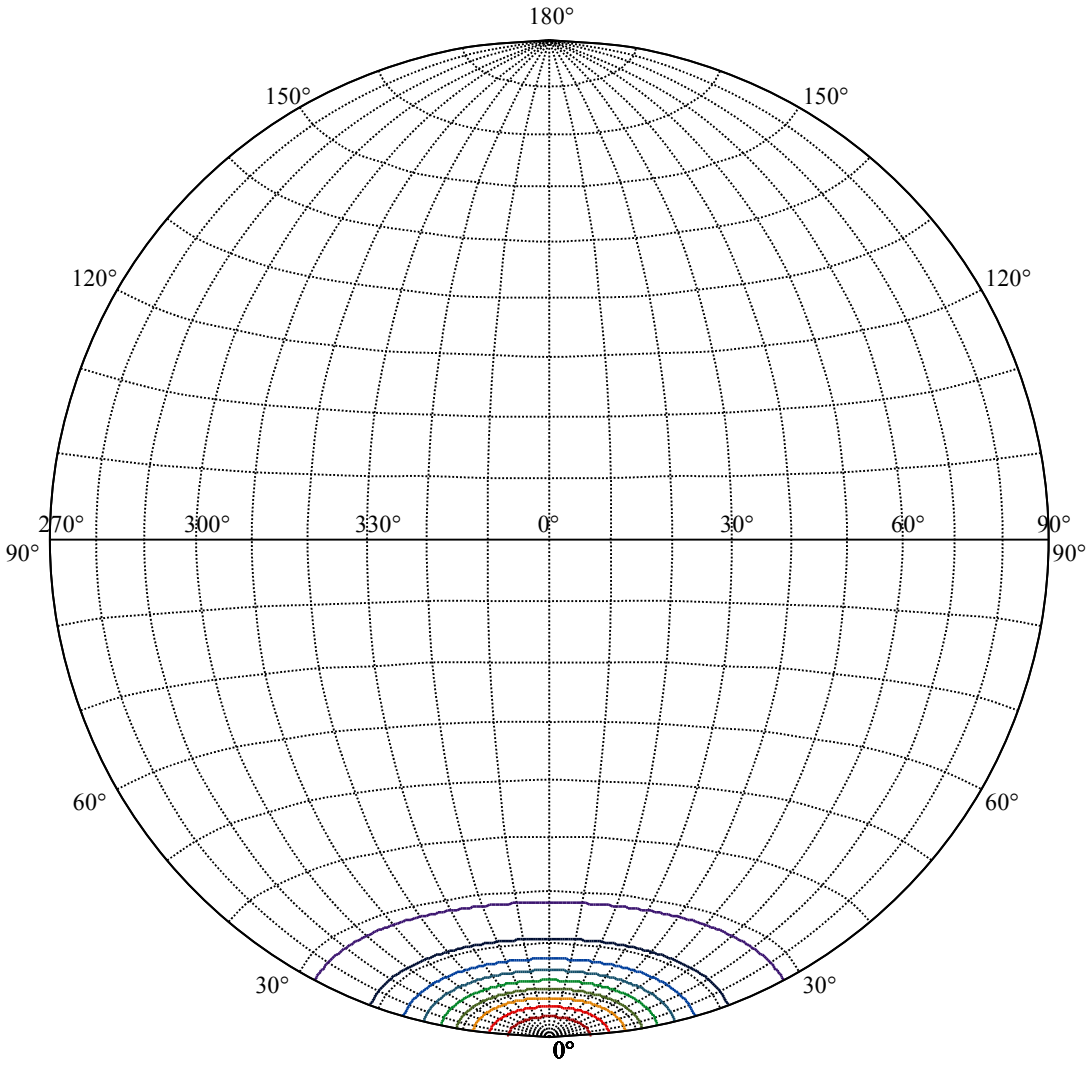
(10%Imax) 1138.47
(20%Imax) 2276.93
(30%Imax) 3415.4
(40%Imax) 4553.87
(50%Imax) 5692.33
(60%Imax) 6830.8
(70%Imax) 7969.26
(80%Imax) 9107.73
(90%Imax) 10246.2

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:11384.66

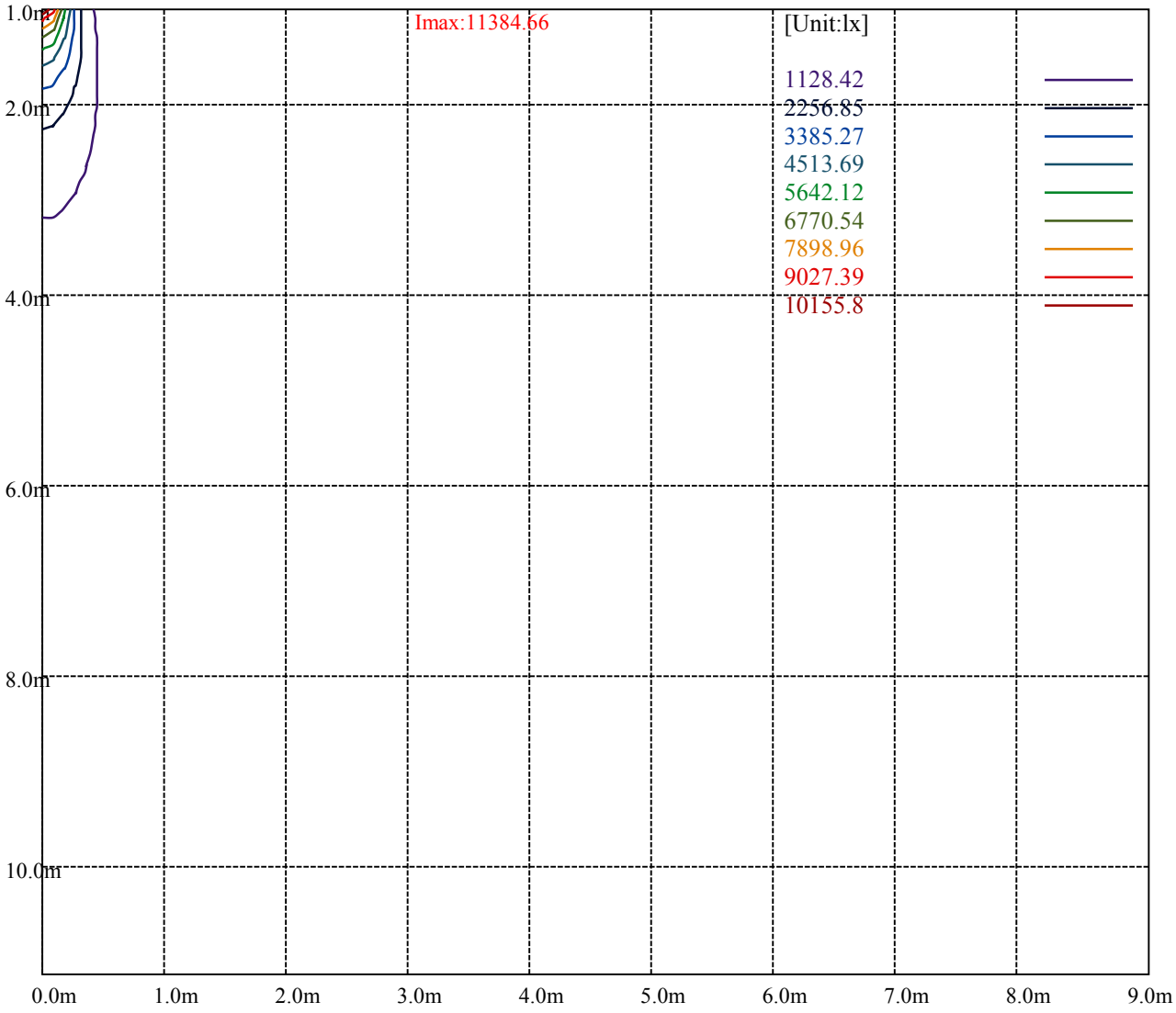
(10%Imax) 1138.47
(20%Imax) 2276.93
(30%Imax) 3415.4
(40%Imax) 4553.87
(50%Imax) 5692.33
(60%Imax) 6830.8
(70%Imax) 7969.26
(80%Imax) 9107.73
(90%Imax) 10246.2

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2755-L

Luminance Limitting Curve(no luminous side)

Luminance Table

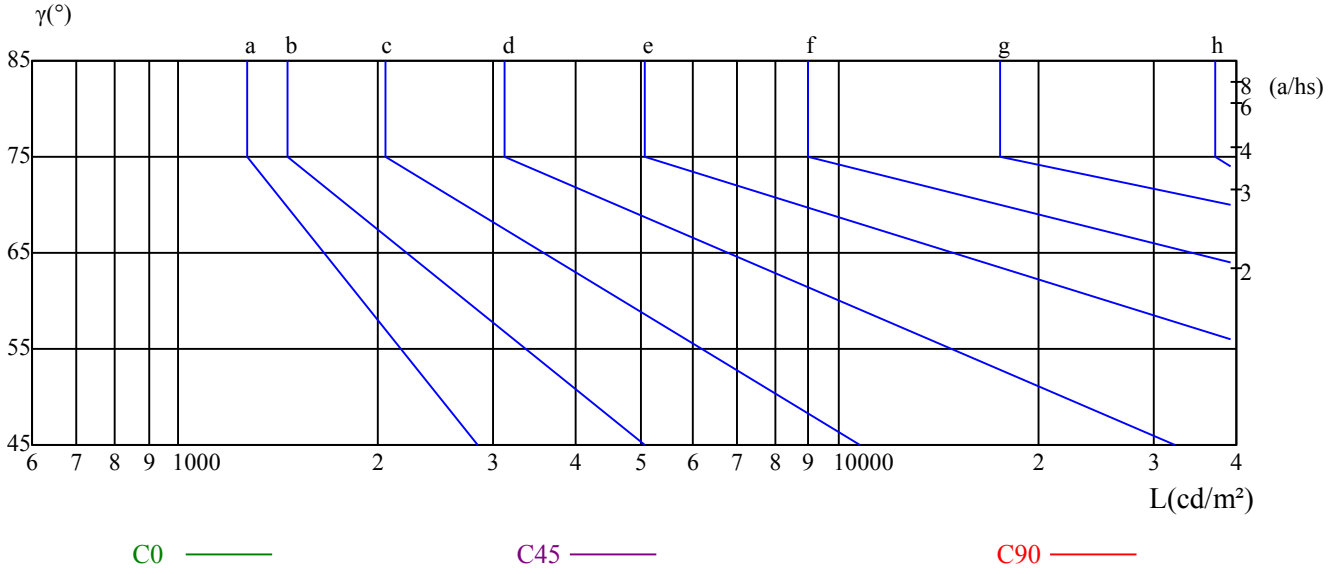
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

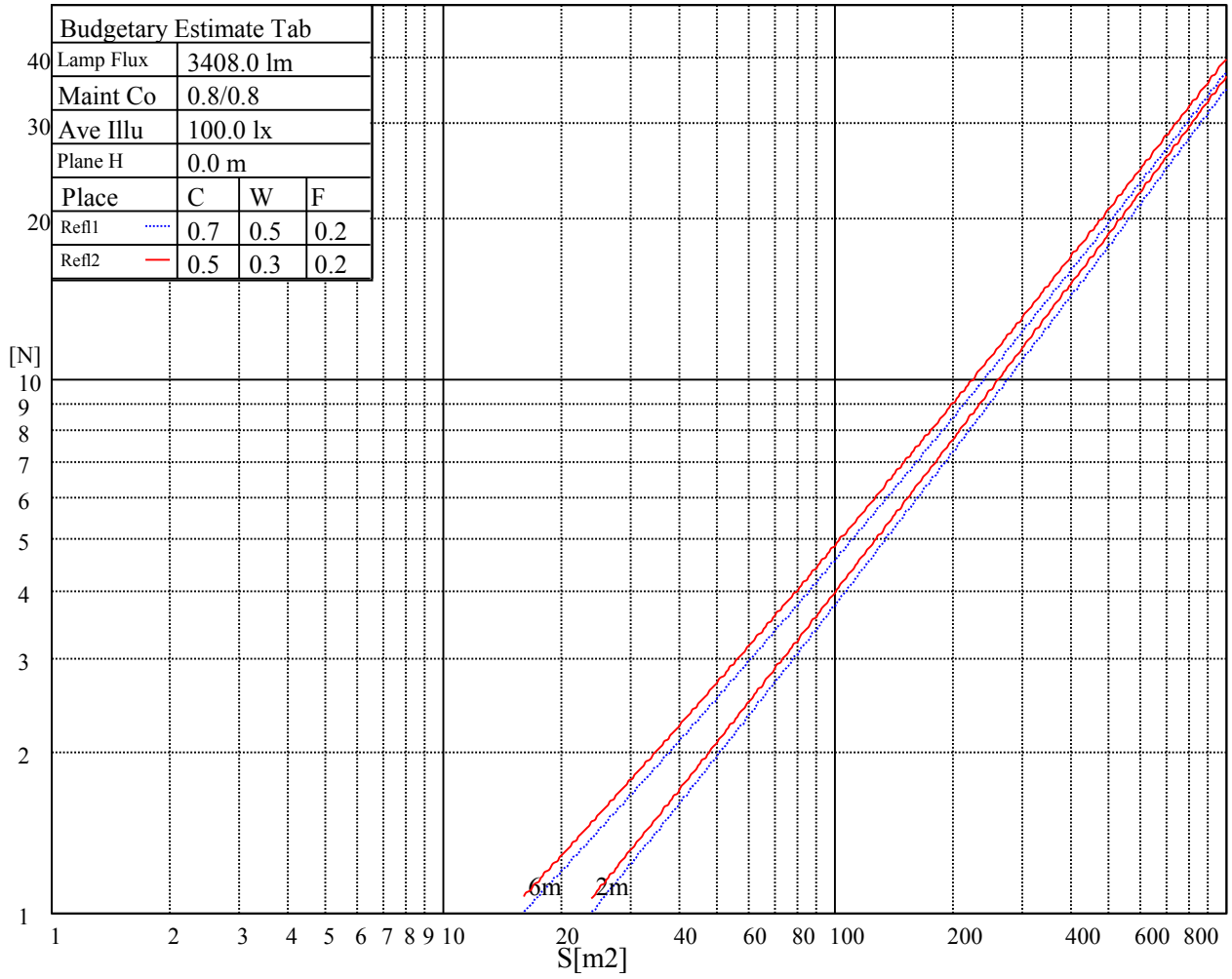
Date: 2024/8/29
Humidity(%): 60.0%

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

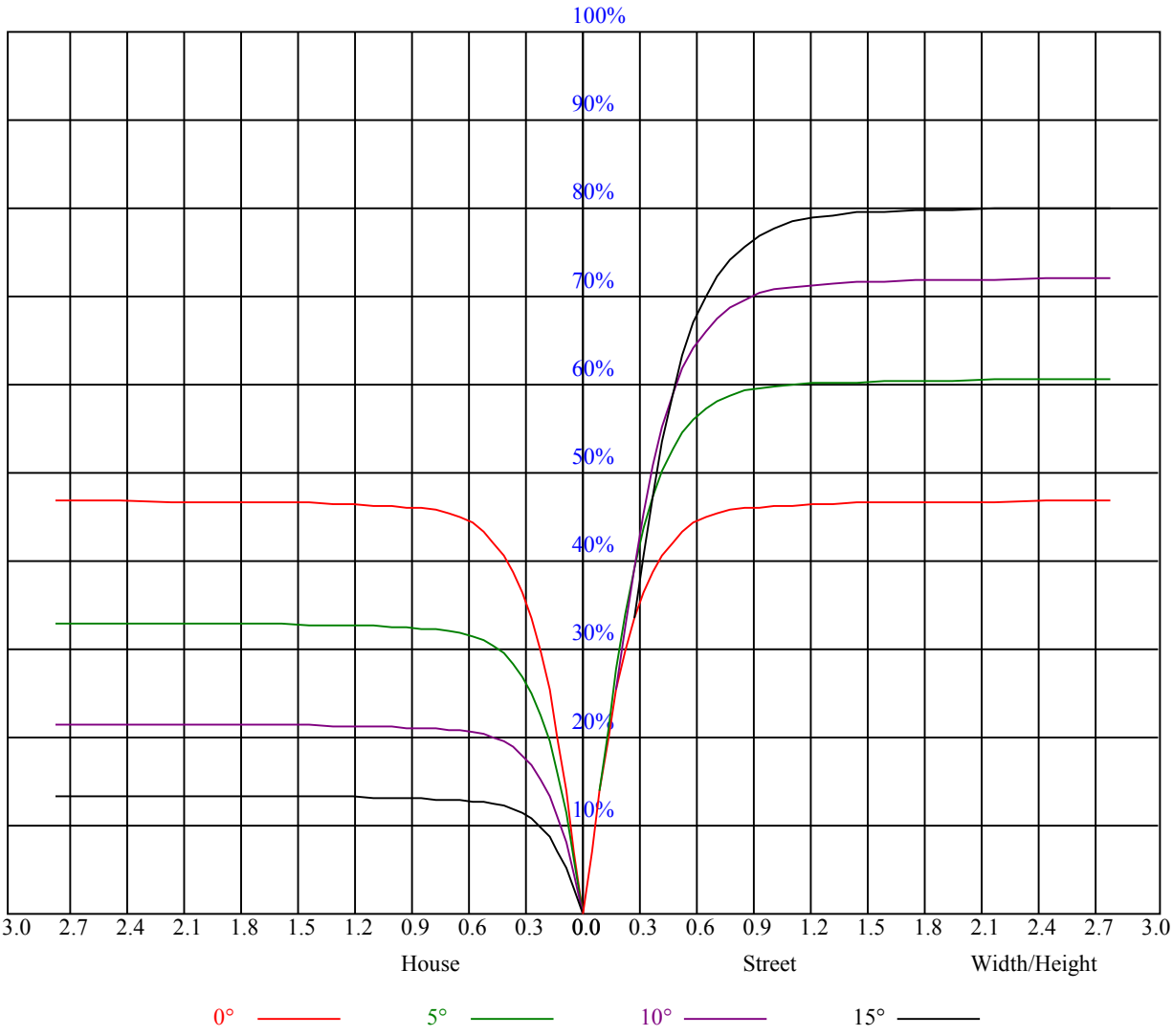
Date: 2024/8/29
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

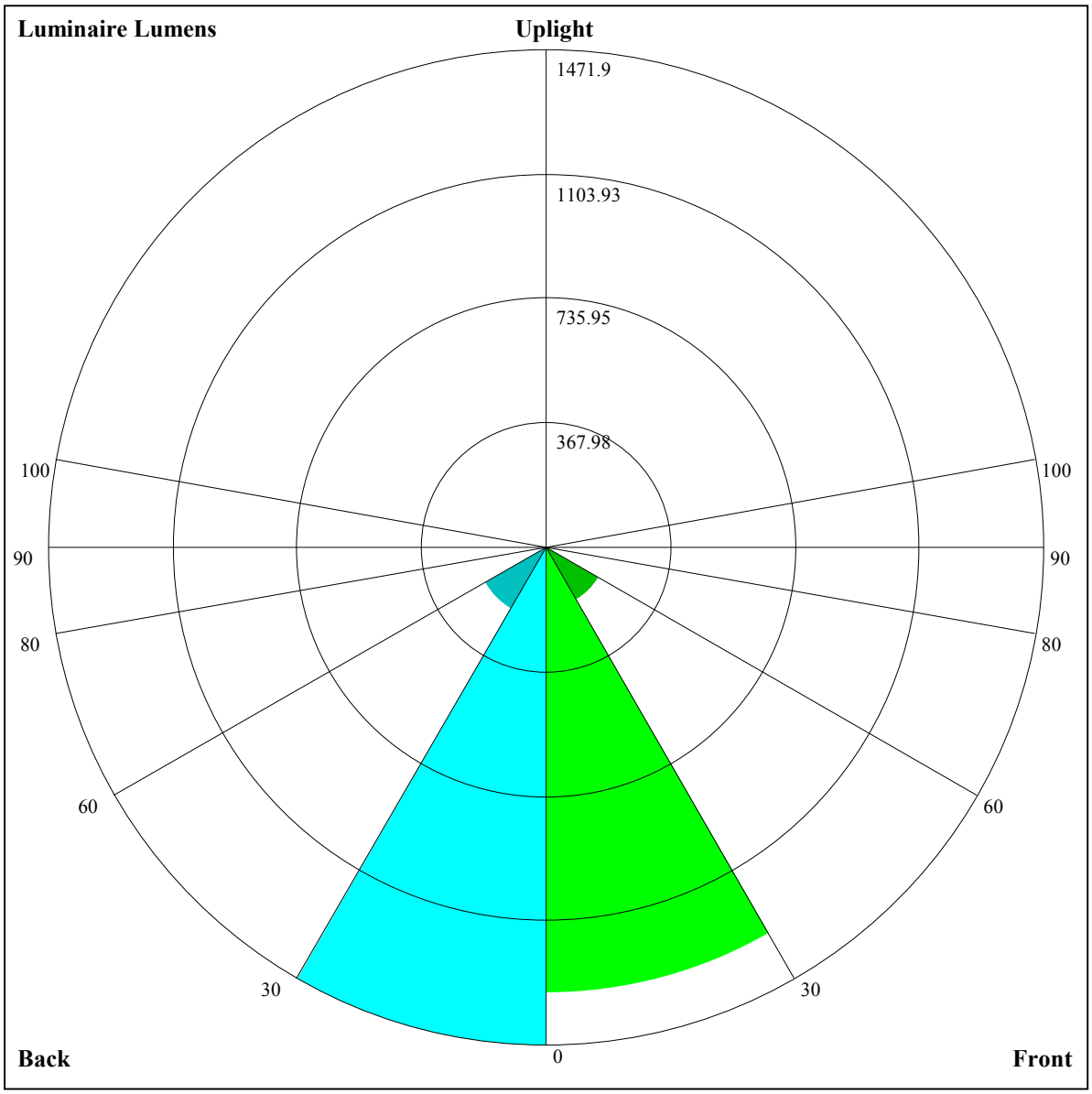
Utilization factor table for indoor luminaire

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	1.12	1.12	1.12	1.09	1.09	1.09	1.04	1.04	1.04	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	1.00	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.89	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.85	0.82	0.89	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.81	0.78	0.85	0.81	0.78	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/8/29	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1317.47,FM=178.1,FH=12.9,FVH=1.44
BL=1471.9,BM=209.22,BH=14.14,BVH=1.65
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	10969.16	10969.16	10722.91	10251.53	9728.37	9140.57	8541.62	8050.74	7272.92
45.0	11581.20	11363.91	11040.75	10622.88	10121.44	9586.56	9029.40	8444.38	7809.21
90.0	11033.24	11033.24	10614.79	10126.74	9605.80	9039.70	8446.32	7805.01	7275.18
135.0	11553.34	11480.91	11341.62	10957.18	10533.74	10160.44	9653.42	9107.40	8544.67
180.0	10969.16	11514.34	11542.20	11469.77	11246.90	10907.03	10667.45	10004.43	9486.27
225.0	11581.20	11642.49	11597.92	11089.48	11008.69	10828.77	10341.78	9786.87	9206.27
270.0	11033.24	11542.20	11631.35	11592.34	11430.77	11285.90	10745.46	10227.30	9904.14
315.0	11553.34	11531.06	10961.91	10961.91	10712.29	10245.96	9679.86	9063.09	8446.90
360.0	10969.16	10969.16	10722.91	10251.53	9728.37	9140.57	8541.62	8050.74	7272.92

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6755.91	6117.38	5503.92	4901.09	4326.10	3818.51	3370.57	2983.92	2659.08
45.0	7140.62	6499.88	5848.00	5218.41	4622.24	4087.37	3608.21	3184.76	2828.18
90.0	6492.36	5971.42	5345.71	4747.87	4200.16	3709.86	3277.53	2909.23	2597.80
135.0	7920.64	7274.33	6622.45	5981.72	5374.41	4761.53	4209.94	3719.64	3290.62
180.0	9146.40	8316.23	7931.79	7291.05	6661.46	6020.72	5396.70	4794.96	4232.23
225.0	8625.72	8023.98	7374.36	6723.01	6084.53	5457.72	4854.30	4280.95	3763.37
270.0	9079.54	8717.39	8115.65	7474.91	6828.60	6187.87	5563.85	4973.25	4399.38
315.0	7825.66	7185.45	6792.13	5900.67	5294.46	4946.76	4388.50	3866.44	3407.89
360.0	6755.91	6117.38	5503.92	4901.09	4326.10	3818.51	3370.57	2983.92	2659.08

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2386.60	2164.89	1969.88	1811.62	1667.34	1530.25	1398.79	1107.33	1083.21
45.0	2828.18	2761.32	2143.13	1957.59	1795.48	1652.83	1520.79	1393.75	1271.75
90.0	2338.14	2123.10	1940.87	1783.24	1638.37	1505.76	1375.35	1082.95	1082.95
135.0	2906.18	2844.89	2844.89	2207.78	2007.73	1835.01	1681.79	1539.71	1409.36
180.0	3736.35	3290.62	2911.75	2911.75	2286.31	2074.59	1889.62	1733.09	1645.57
225.0	3480.32	2915.90	2710.33	2414.46	2167.10	1959.85	1791.01	1641.16	1502.97
270.0	3870.07	3402.06	3012.04	2872.75	2546.55	2138.66	1952.01	1849.52	1701.29
315.0	3015.09	2680.27	2406.10	2174.88	1973.20	1806.63	1652.83	1513.54	1379.82
360.0	2386.60	2164.89	1969.88	1811.62	1667.34	1530.25	1398.79	1107.33	1083.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1083.21	960.53	836.27	712.91	598.84	498.24	418.82	355.80	301.92
45.0	1151.38	1031.07	910.12	790.33	671.12	562.47	469.44	408.15	334.03
90.0	1059.03	931.99	806.20	682.21	568.31	474.90	399.90	338.61	285.68
135.0	1282.31	1164.21	1040.53	919.63	797.58	675.59	563.58	471.12	396.43
180.0	1455.04	1378.71	1256.14	1134.14	1014.88	895.09	771.99	653.30	545.76
225.0	1373.72	1091.57	1091.57	997.06	874.96	755.74	687.10	538.13	484.10
270.0	1558.69	1425.50	1297.35	1172.56	1052.20	929.09	803.73	684.47	574.19
315.0	1089.15	1089.15	1037.64	868.33	792.96	671.80	560.79	466.33	392.80
360.0	1083.21	960.53	836.27	712.91	598.84	498.24	418.82	355.80	301.92

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	256.56	216.77	182.29	152.38	127.78	107.70	90.41	79.68	67.17
45.0	291.14	291.14	204.15	169.83	141.55	118.53	99.61	83.78	72.12
90.0	241.42	203.26	170.83	143.65	121.37	103.29	88.25	76.90	68.07
135.0	335.72	283.89	283.89	234.32	172.77	144.44	121.31	101.97	86.04
180.0	454.93	383.08	321.79	290.04	290.04	186.49	154.59	133.82	112.27
225.0	405.31	318.37	287.25	241.52	202.58	168.94	141.13	118.58	99.92
270.0	480.00	402.58	339.61	286.10	286.10	200.16	166.68	144.07	116.37
315.0	334.40	285.31	244.10	207.10	175.09	148.02	125.10	106.18	90.14
360.0	256.56	216.77	182.29	152.38	127.78	107.70	90.41	79.68	67.17

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	60.08	55.66	50.78	48.67	46.04	43.52	41.05	39.00	37.32
45.0	63.71	57.14	52.25	49.88	45.73	42.84	41.05	38.74	36.85
90.0	60.97	56.24	51.72	47.36	44.63	41.42	38.63	36.58	34.69
135.0	73.85	64.91	58.03	52.77	48.57	45.52	42.26	39.63	37.32
180.0	94.24	79.90	68.91	60.60	54.45	49.67	45.94	43.36	40.89
225.0	84.63	72.59	63.60	57.14	51.88	48.04	44.99	42.37	39.84
270.0	100.66	84.68	71.80	62.55	55.82	50.62	46.78	43.84	41.26
315.0	77.48	67.81	60.39	54.77	50.41	48.20	43.89	42.26	39.58
360.0	60.08	55.66	50.78	48.67	46.04	43.52	41.05	39.00	37.32

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.22	33.27	31.27	29.70	27.96	25.97	23.76	22.23	20.92
45.0	35.01	32.80	30.59	28.80	27.23	25.49	23.55	21.60	20.18
90.0	32.59	30.22	28.49	27.12	25.44	23.44	21.55	20.18	19.03
135.0	35.48	34.59	32.12	30.96	29.22	28.02	26.65	24.91	22.86
180.0	38.58	36.58	35.22	33.69	32.17	30.49	28.86	27.60	26.65
225.0	38.32	35.53	34.06	33.17	30.70	29.54	27.96	26.54	24.81
270.0	38.69	36.43	34.69	33.32	31.75	29.70	28.17	27.49	25.70
315.0	37.48	35.80	33.85	31.70	29.96	28.86	27.39	25.55	23.39
360.0	35.22	33.27	31.27	29.70	27.96	25.97	23.76	22.23	20.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.40	17.50	15.98	14.93	13.82	12.46	11.09	10.41	9.04
45.0	18.92	17.50	15.93	14.77	13.61	12.56	11.41	10.25	9.36
90.0	17.66	16.03	14.88	13.93	12.83	11.51	10.46	9.93	9.20
135.0	21.39	20.08	18.87	17.40	16.03	15.09	14.03	12.88	11.51
180.0	24.13	22.86	21.39	20.08	18.66	17.03	15.45	14.35	13.35
225.0	22.81	20.97	19.76	18.50	17.03	15.51	14.40	13.30	12.19
270.0	23.81	22.71	20.76	20.03	18.87	17.24	15.66	14.61	13.77
315.0	21.87	20.87	19.66	17.98	16.56	15.61	14.56	13.30	12.14
360.0	19.40	17.50	15.98	14.93	13.82	12.46	11.09	10.41	9.04

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.62	7.83	7.04	6.41	5.78	5.15	4.73	4.21	3.68
45.0	8.67	7.94	7.31	6.62	6.04	5.52	4.94	4.47	3.99
90.0	8.46	7.73	6.99	6.47	5.89	5.31	4.78	4.26	3.78
135.0	10.62	9.83	9.04	8.36	7.62	6.99	6.47	6.04	5.52
180.0	12.09	10.72	9.78	8.88	8.09	7.31	6.57	5.99	5.47
225.0	10.83	9.83	8.99	8.41	7.52	6.78	6.25	5.68	5.20
270.0	12.67	11.30	10.30	9.51	8.73	7.99	7.36	6.78	6.10
315.0	10.99	10.25	9.46	8.67	7.88	7.31	6.68	5.99	5.47
360.0	8.62	7.83	7.04	6.41	5.78	5.15	4.73	4.21	3.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.26	2.94	2.42	2.21	1.89	1.58	1.37	1.21	1.26
45.0	3.47	3.05	2.68	2.21	1.89	1.58	1.37	1.16	1.16
90.0	3.31	2.94	2.47	2.16	1.79	1.47	1.26	1.10	1.10
135.0	5.05	4.47	4.05	3.47	3.05	2.52	2.31	2.00	1.52
180.0	4.89	4.47	3.84	3.47	3.00	2.63	2.21	1.94	1.68
225.0	4.73	4.21	3.84	3.36	2.94	2.52	2.16	1.84	1.52
270.0	5.57	5.10	4.47	3.99	3.57	3.05	2.68	2.26	1.89
315.0	4.99	4.47	4.05	3.57	3.15	2.79	2.37	2.00	1.79
360.0	3.26	2.94	2.42	2.21	1.89	1.58	1.37	1.21	1.26

Intensity data(cd)

C/γ(°)	90.0
0.0	1.26
45.0	1.21
90.0	1.10
135.0	1.16
180.0	1.31
225.0	1.42
270.0	1.58
315.0	1.58
360.0	1.26