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Nata

Client:
LumCAT: 2-2763-L
Luminaire: 92.70.412.00
Report No: 2024812-B005
Ballast type: AC

Test No: 2024812-C005	Voltage(V): 36.780
LampCAT: P2141-036-1206-P3090-1	Current(A): 0.695
Lamp flux(lm): 3141.0	Power (W): 25.560
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2908.89, Efficiency(%): 92.61% , Luminous Efficacy(lm/W): 113.81
Central intensity(cd): 4188.127, Maximum intensity(cd): 4189.540
Angle of maximum intensity: C=0.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=51.0
[C90/270]Total=51.0
Field angle(10%Imax): [C0/180]Total=74.4
[C90/270]Total=74.4
Maximum s/h(1/2): C0_180=0.81 C90_270=0.81
Maximum s/h(1/4): C0_180=0.77 C90_270=0.77
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.61%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.960%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4188.127	0.000	0	0.00%	0.00%
1.0	4187.858	4.008	4.008	0.13%	0.14%
2.0	4189.540	12.024	16.032	0.38%	0.55%
3.0	4178.311	20.013	36.045	0.64%	1.24%
4.0	4167.937	27.938	63.982	0.89%	2.20%
5.0	4160.769	35.830	99.812	1.14%	3.43%
6.0	4136.531	43.605	143.417	1.39%	4.93%
7.0	4111.255	51.194	194.611	1.63%	6.69%
8.0	4078.370	58.612	253.222	1.87%	8.71%
9.0	4033.935	65.746	318.968	2.09%	10.97%
10.0	3974.678	72.475	391.443	2.31%	13.46%
11.0	3902.174	78.706	470.149	2.51%	16.16%
12.0	3822.989	84.447	554.596	2.69%	19.07%
13.0	3731.123	89.648	644.244	2.85%	22.15%
14.0	3631.668	94.243	738.487	3.00%	25.39%
15.0	3527.896	98.290	836.777	3.13%	28.77%
16.0	3407.758	101.627	938.404	3.24%	32.26%
17.0	3303.566	104.513	1042.917	3.33%	35.85%
18.0	3181.135	106.919	1149.836	3.40%	39.53%
19.0	3058.356	108.554	1258.39	3.46%	43.26%
20.0	2924.972	109.512	1367.902	3.49%	47.02%
21.0	2776.706	109.484	1477.385	3.49%	50.79%
22.0	2646.259	108.977	1586.362	3.47%	54.53%
23.0	2486.778	107.705	1694.067	3.43%	58.24%
24.0	2338.841	105.505	1799.572	3.36%	61.86%
25.0	2176.988	102.680	1902.253	3.27%	65.39%
26.0	2013.880	98.926	2001.178	3.15%	68.80%
27.0	1855.844	94.674	2095.852	3.01%	72.05%
28.0	1689.116	89.751	2185.603	2.86%	75.14%
29.0	1497.939	83.382	2268.985	2.65%	78.00%
30.0	1369.923	77.432	2346.417	2.47%	80.66%
31.0	1164.778	70.537	2416.954	2.25%	83.09%
32.0	1039.752	63.157	2480.111	2.01%	85.26%
33.0	881.007	56.586	2536.698	1.80%	87.20%
34.0	749.666	49.349	2586.047	1.57%	88.90%
35.0	621.039	42.569	2628.616	1.36%	90.36%
36.0	524.994	36.490	2665.105	1.16%	91.62%
37.0	435.579	31.329	2696.434	1.00%	92.70%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	366.085	26.758	2723.192	0.85%	93.62%
39.0	311.893	23.141	2746.334	0.74%	94.41%
40.0	258.732	19.901	2766.235	0.63%	95.10%
41.0	212.123	16.767	2783.002	0.53%	95.67%
42.0	182.024	14.320	2797.322	0.46%	96.16%
43.0	147.530	12.208	2809.53	0.39%	96.58%
44.0	114.126	9.876	2819.405	0.31%	96.92%
45.0	92.411	7.937	2827.343	0.25%	97.20%
46.0	77.976	6.664	2834.006	0.21%	97.43%
47.0	65.953	5.724	2839.731	0.18%	97.62%
48.0	56.308	4.942	2844.673	0.16%	97.79%
49.0	49.626	4.350	2849.023	0.14%	97.94%
50.0	43.771	3.894	2852.917	0.12%	98.08%
51.0	39.120	3.507	2856.424	0.11%	98.20%
52.0	35.401	3.198	2859.622	0.10%	98.31%
53.0	32.543	2.956	2862.578	0.09%	98.41%
54.0	29.869	2.751	2865.328	0.09%	98.50%
55.0	27.503	2.561	2867.889	0.08%	98.59%
56.0	25.532	2.397	2870.286	0.08%	98.67%
57.0	23.811	2.256	2872.542	0.07%	98.75%
58.0	22.352	2.135	2874.677	0.07%	98.82%
59.0	21.005	2.027	2876.704	0.06%	98.89%
60.0	19.842	1.930	2878.634	0.06%	98.96%
61.0	18.877	1.848	2880.481	0.06%	99.02%
62.0	18.528	1.802	2882.284	0.06%	99.09%
63.0	17.825	1.768	2884.052	0.06%	99.15%
64.0	17.300	1.724	2885.775	0.05%	99.21%
65.0	17.622	1.728	2887.504	0.06%	99.26%
66.0	16.905	1.723	2889.226	0.05%	99.32%
67.0	16.189	1.664	2890.89	0.05%	99.38%
68.0	14.718	1.566	2892.456	0.05%	99.43%
69.0	14.612	1.496	2893.952	0.05%	99.49%
70.0	13.962	1.468	2895.42	0.05%	99.54%
71.0	13.279	1.408	2896.828	0.04%	99.59%
72.0	12.254	1.328	2898.155	0.04%	99.63%
73.0	11.386	1.236	2899.391	0.04%	99.67%
74.0	10.079	1.128	2900.52	0.04%	99.71%
75.0	9.034	1.010	2901.53	0.03%	99.75%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.200	0.915	2902.445	0.03%	99.78%
77.0	7.470	0.835	2903.28	0.03%	99.81%
78.0	6.761	0.762	2904.042	0.02%	99.83%
79.0	6.235	0.698	2904.74	0.02%	99.86%
80.0	5.618	0.639	2905.379	0.02%	99.88%
81.0	5.072	0.578	2905.957	0.02%	99.90%
82.0	4.507	0.519	2906.477	0.02%	99.92%
83.0	3.982	0.461	2906.938	0.01%	99.93%
84.0	3.463	0.406	2907.344	0.01%	99.95%
85.0	3.029	0.354	2907.698	0.01%	99.96%
86.0	2.635	0.310	2908.008	0.01%	99.97%
87.0	2.273	0.269	2908.276	0.01%	99.98%
88.0	1.971	0.233	2908.509	0.01%	99.99%
89.0	1.721	0.202	2908.711	0.01%	99.99%
90.0	1.603	0.182	2908.893	0.01%	100.00%

Zonal flux distribution table

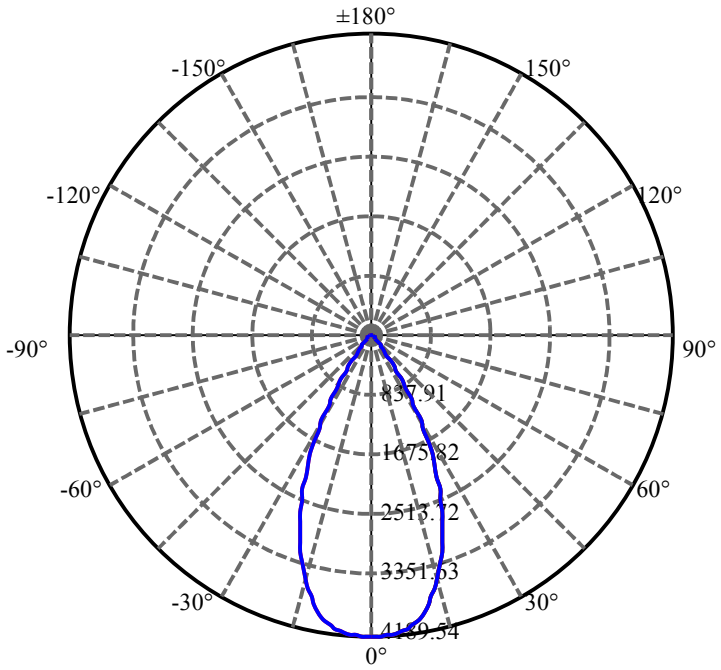
ZONAL LUMEN SUMMARY

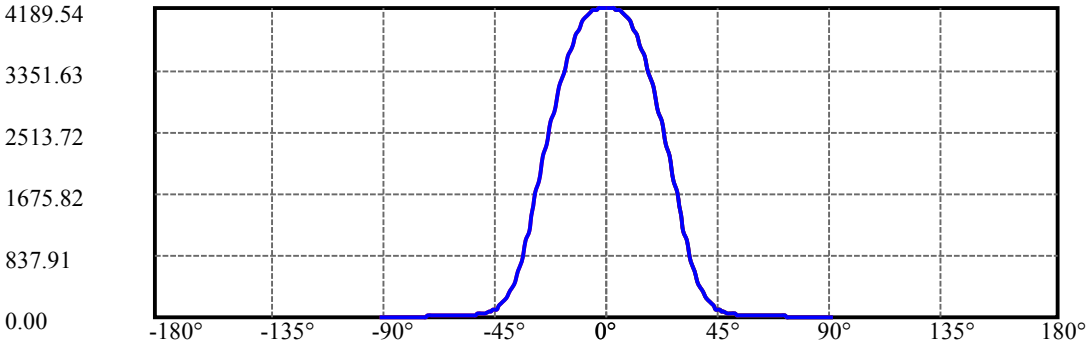
Zone	Lumens	%Lamp	%Fixt
0-30	2346.42	74.70%	80.66%
0-40	2766.24	88.07%	95.10%
0-60	2878.63	91.65%	98.96%
0-90	2908.71	92.60%	99.99%
0-120	2908.71	92.60%	99.99%
0-180	2908.89	92.61%	100.00%
60-90	30.08	0.96%	1.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.75	2327.12	74.09%	80.00%

ZONAL LUMEN SUMMARY

0-10	391.44
10-20	976.46
20-30	978.52
30-40	419.82
40-50	86.68
50-60	25.72
60-70	16.79
70-80	9.96
80-90	3.33
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):

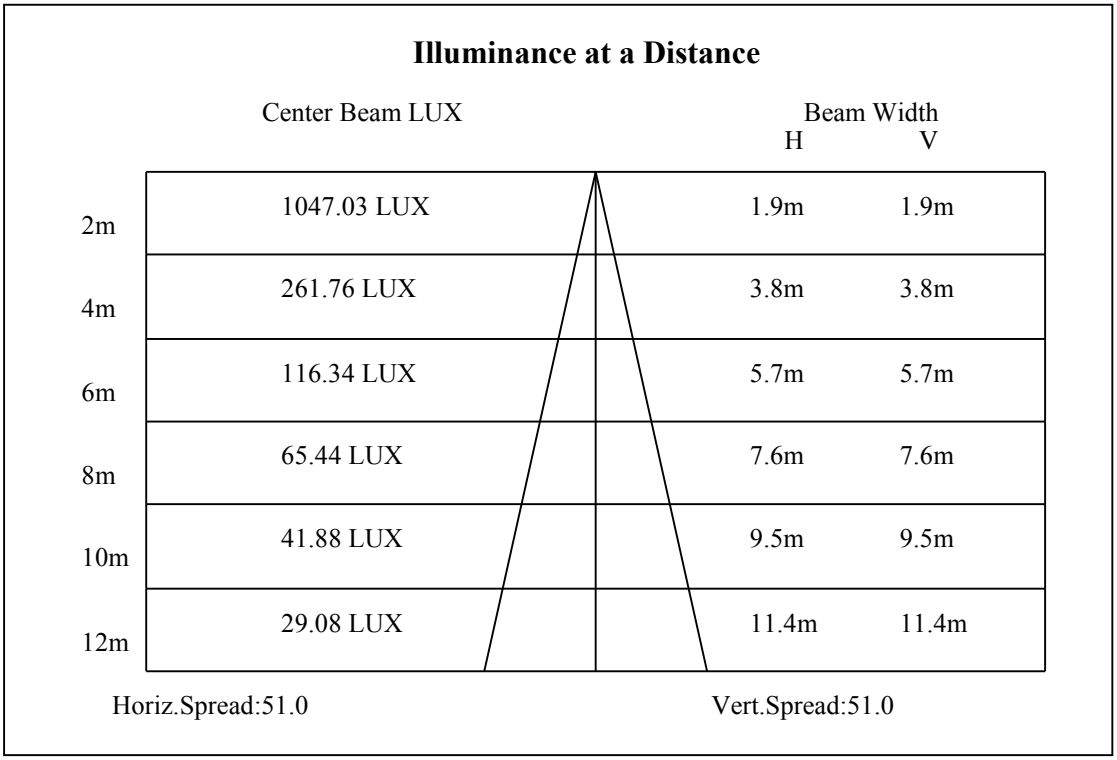
C0/C180:

C90/C270:

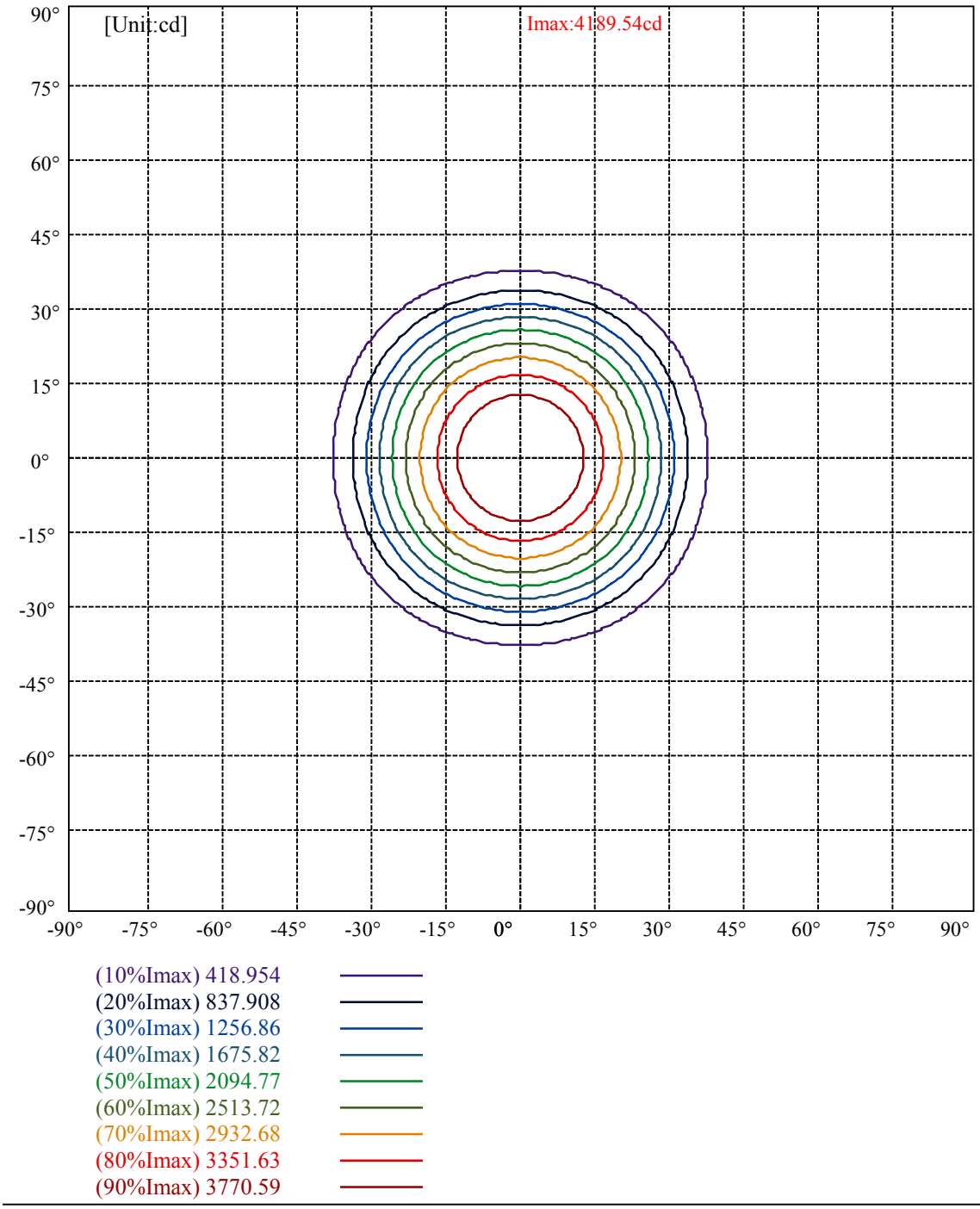
Field angle(10%Imax):C0/180Left:39.2 Right:35.2
:C90/270Left:39.2 Right:35.2

Beam Angle(50%Imax):C0/180Left:27.5 Right:23.5
:C90/270Left:27.5 Right:23.5

Lux distance Curve



ISO-Intensity(V-H)

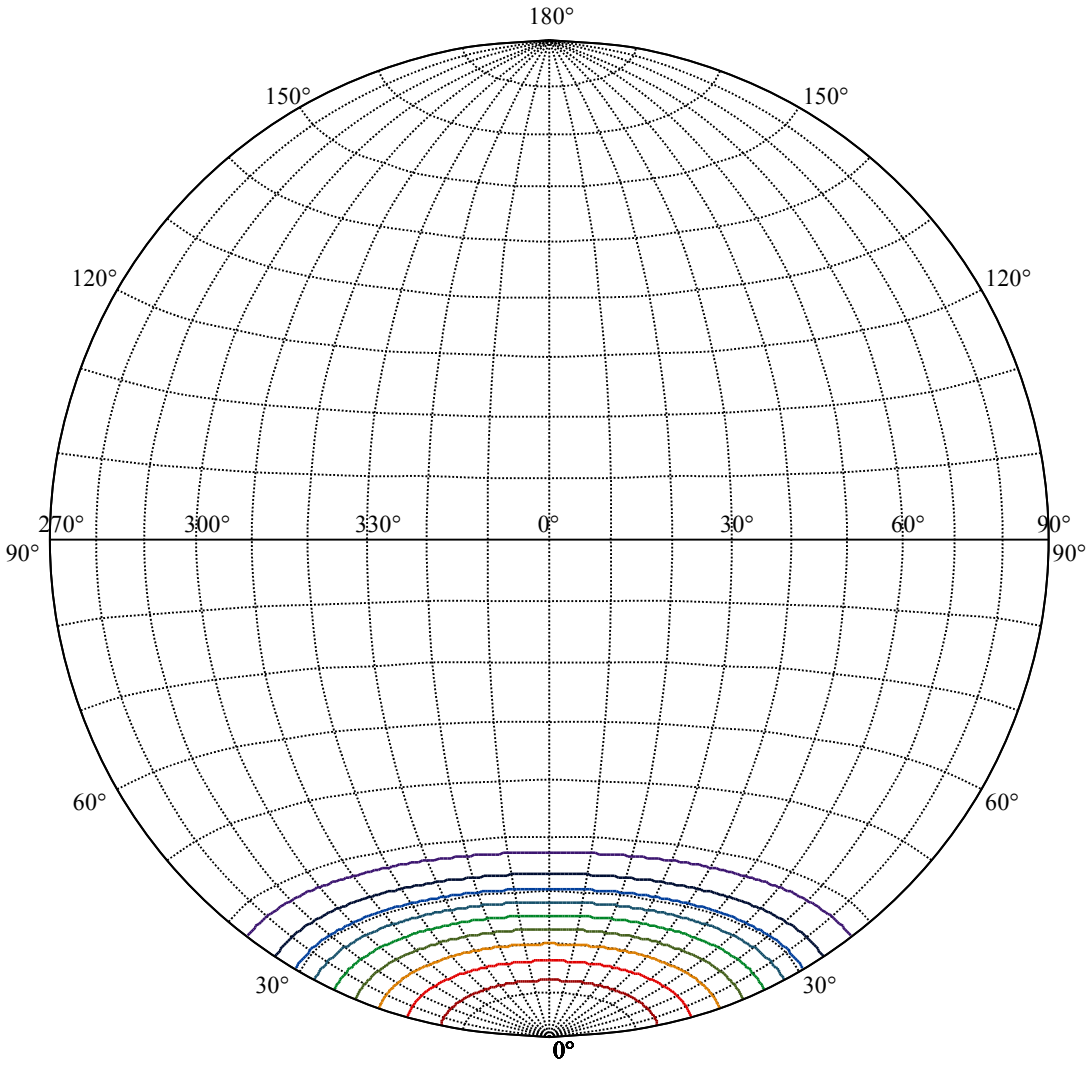


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4189.54

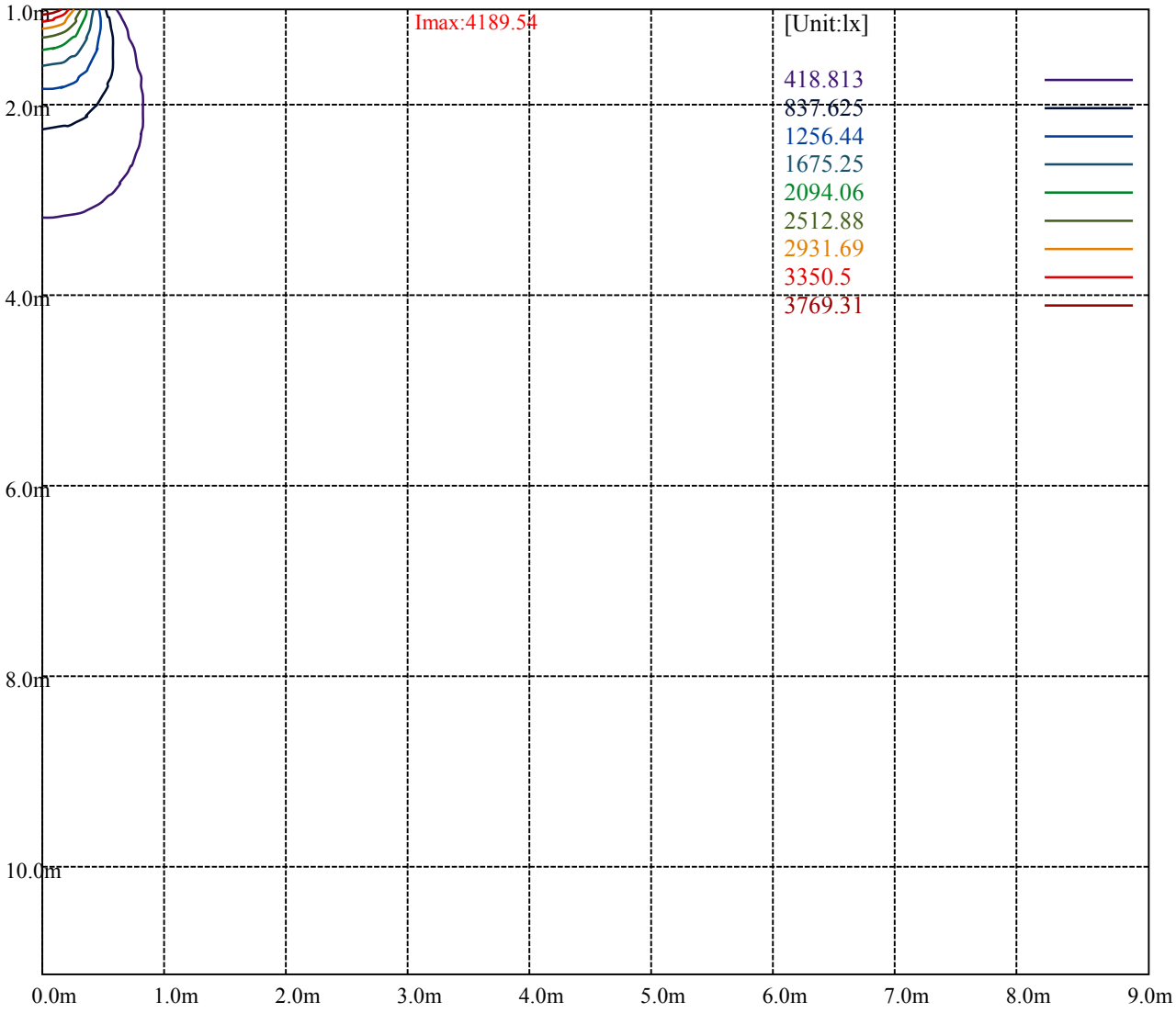
(10%Imax) 418.954
(20%Imax) 837.908
(30%Imax) 1256.86
(40%Imax) 1675.82
(50%Imax) 2094.77
(60%Imax) 2513.72
(70%Imax) 2932.68
(80%Imax) 3351.63
(90%Imax) 3770.59

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2763-L

Luminance Limitting Curve(no luminous side)

Luminance Table

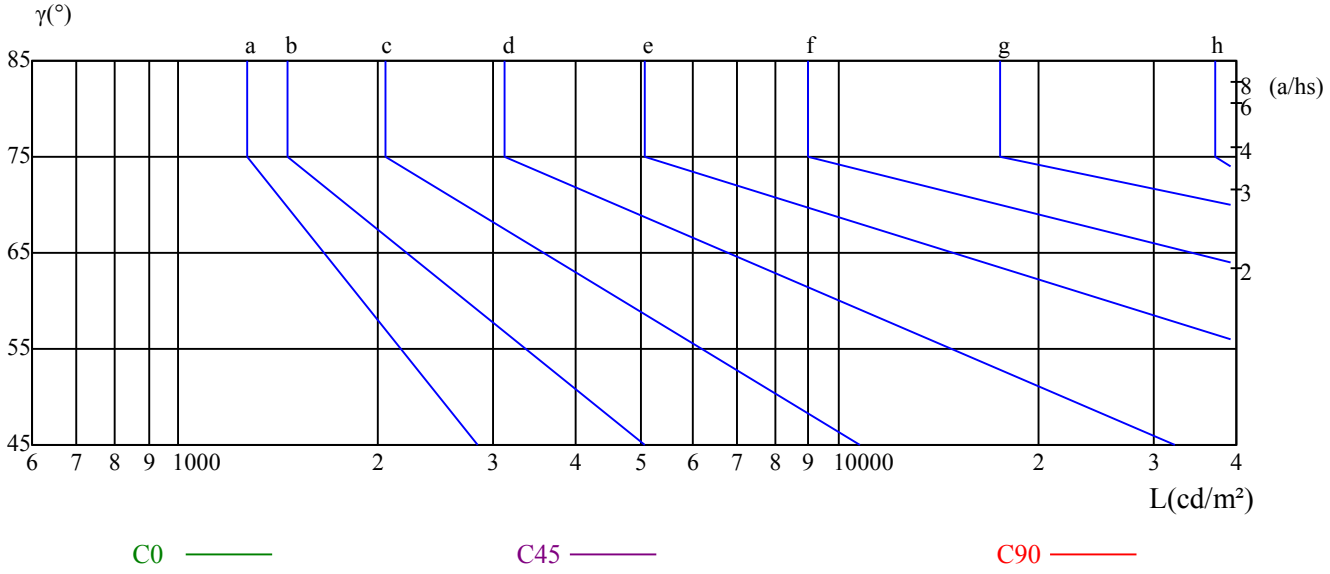
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

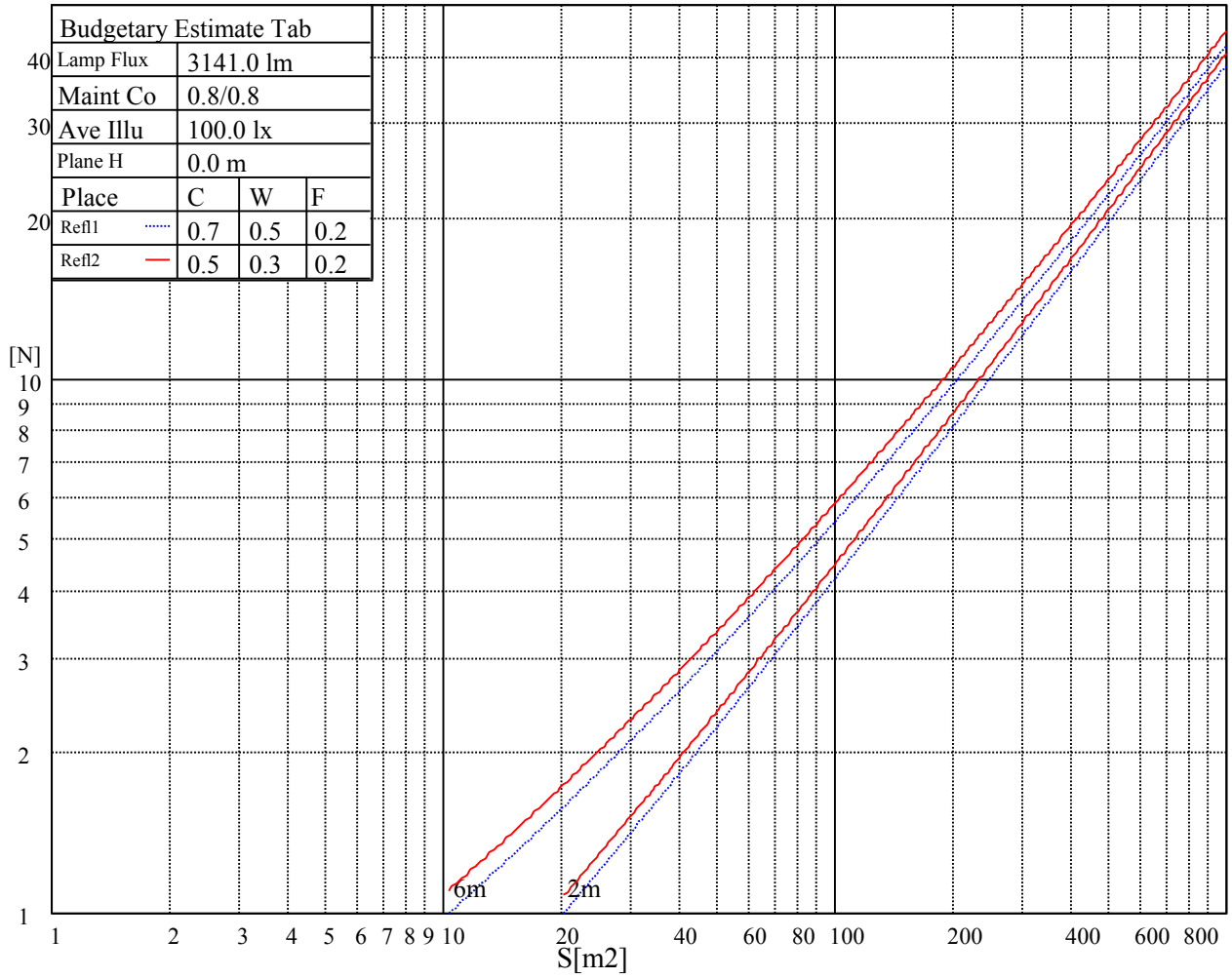
Date: 2024/8/12
Humidity(%): 60.0%

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

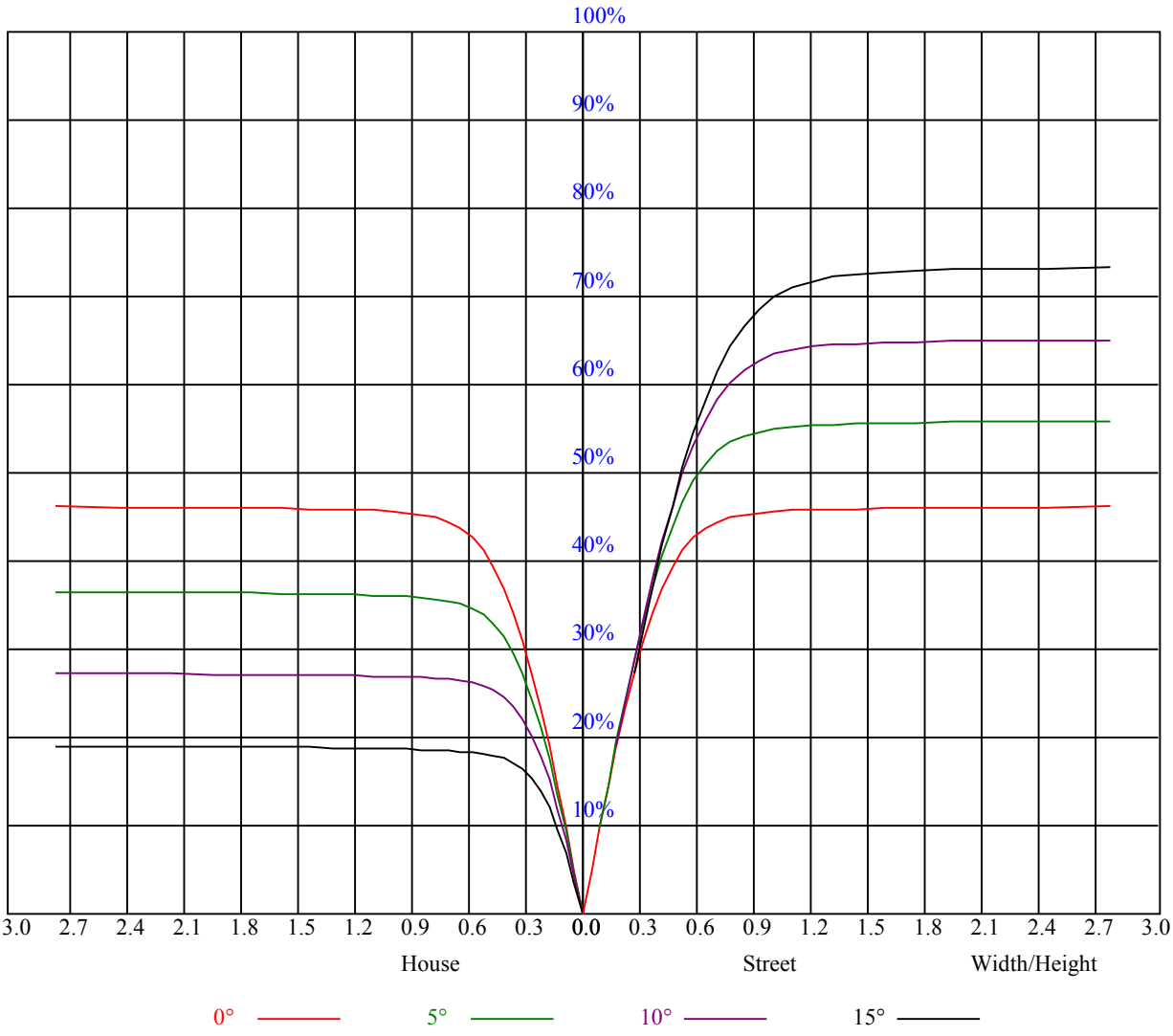
Date: 2024/8/12
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

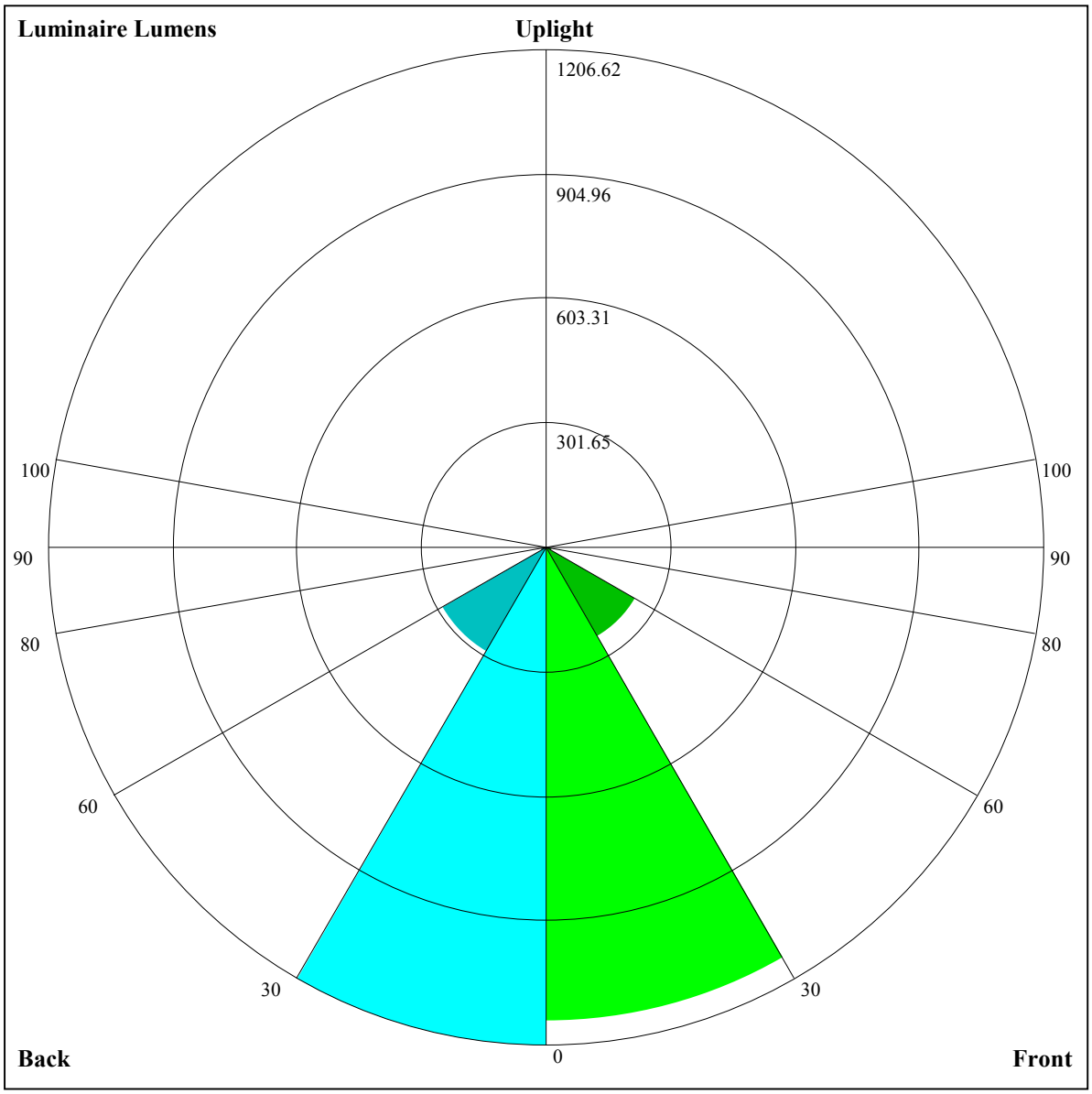
Utilization factor table for indoor luminaire

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	0.99	0.99	0.99	0.95	0.95	0.95	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	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.83	0.81	0.84	0.82	0.79	0.82	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	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.75	0.71	0.78	0.74	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.57
9	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.54
10	0.62	0.57	0.53	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/8/12	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1151.05,FM=251.3,FH=13.87,FVH=1.74
BL=1206.62,BM=293.85,BH=12.85,BVH=1.78
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	4191.28	4202.42	4204.11	4193.49	4151.70	4127.73	4098.25	4049.20	3987.34
45.0	4179.56	4192.39	4197.96	4202.42	4186.24	4159.53	4137.77	4113.28	4060.35
90.0	4186.24	4163.95	4170.68	4162.84	4148.39	4152.81	4111.02	4059.77	4030.23
135.0	4193.49	4181.24	4167.89	4147.23	4142.82	4135.56	4116.06	4103.82	4058.67
180.0	4191.28	4176.25	4171.78	4148.39	4138.88	4132.20	4090.99	4068.13	4065.34
225.0	4179.56	4181.24	4191.28	4172.31	4160.64	4162.32	4133.88	4106.60	4075.38
270.0	4186.24	4185.13	4196.85	4200.16	4205.74	4206.31	4210.20	4209.68	4205.21
315.0	4197.38	4220.24	4215.78	4199.64	4209.10	4209.68	4194.07	4179.56	4144.45
360.0	4191.28	4202.42	4204.11	4193.49	4151.70	4127.73	4098.25	4049.20	3987.34

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3923.84	3825.24	3728.84	3614.62	3486.47	3385.60	3257.46	3091.99	2998.95
45.0	3991.23	3930.52	3835.80	3724.95	3648.57	3515.43	3412.36	3293.15	3153.28
90.0	3969.52	3890.41	3780.08	3679.80	3575.62	3466.39	3340.50	3221.82	3104.24
135.0	4016.30	3971.73	3905.45	3832.44	3733.83	3642.48	3536.62	3425.71	3323.79
180.0	4046.42	3968.42	3931.62	3863.66	3799.59	3714.33	3627.97	3544.97	3450.78
225.0	4030.23	3997.38	3936.09	3865.34	3780.66	3693.15	3586.18	3475.85	3375.56
270.0	4203.53	4181.24	4137.77	4117.75	4033.59	3950.60	3888.73	3754.43	3692.04
315.0	4090.41	4032.49	3961.74	3885.37	3790.65	3685.37	3573.36	3454.14	3329.89
360.0	3923.84	3825.24	3728.84	3614.62	3486.47	3385.60	3257.46	3091.99	2998.95

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2866.92	2729.83	2590.54	2445.68	2297.45	2144.23	1996.06	1842.26	1685.73
45.0	3002.26	2855.77	2714.22	2561.58	2405.00	2247.89	2077.38	1906.91	1750.33
90.0	2974.98	2834.59	2695.30	2532.62	2378.24	2214.46	2045.63	1867.91	1731.41
135.0	3208.99	3138.24	3016.19	2817.88	2734.83	2577.19	2418.93	2254.56	2090.78
180.0	3343.82	3220.71	3097.56	2971.62	2840.16	2698.09	2555.43	2413.35	2266.81
225.0	3251.88	3119.85	2977.19	2834.01	2685.84	2532.62	2368.26	2204.42	2043.95
270.0	3591.23	3478.64	3352.17	3230.18	3095.35	2952.70	2808.94	2651.83	2494.14
315.0	3208.99	3089.20	2956.59	2820.08	2733.20	2527.05	2440.11	2274.64	2047.89
360.0	2866.92	2729.83	2590.54	2445.68	2297.45	2144.23	1996.06	1842.26	1685.73

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1530.25	1375.35	1064.65	1064.65	967.20	806.10	622.76	557.69	464.81
45.0	1601.00	1441.11	1282.89	1112.38	1012.67	790.91	661.08	590.91	458.29
90.0	1524.15	1267.86	1040.79	1040.79	876.64	728.94	604.57	504.34	420.08
135.0	1920.27	1748.65	1575.40	1397.64	1213.25	1033.85	866.70	720.68	601.47
180.0	2115.27	1958.16	1857.87	1687.94	1441.11	1330.25	1149.17	978.66	818.19
225.0	1881.26	1789.33	1572.04	1417.72	1092.62	1092.62	959.74	798.48	658.35
270.0	2330.88	2163.74	1989.39	1812.20	1636.69	1457.30	1275.06	1091.78	917.95
315.0	1943.66	1768.73	1600.48	1426.07	1078.06	1078.06	908.96	754.80	629.17
360.0	1530.25	1375.35	1064.65	1064.65	967.20	806.10	622.76	557.69	464.81

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	388.02	323.79	268.44	221.08	180.71	147.91	120.37	98.29	81.21
45.0	412.04	344.60	287.78	287.78	195.32	158.95	129.30	105.44	86.73
90.0	348.70	289.36	238.06	194.43	157.00	126.41	102.50	90.35	69.22
135.0	502.87	419.82	349.65	288.88	288.88	233.64	165.15	134.09	109.33
180.0	683.94	576.40	487.83	410.93	345.76	288.88	288.88	190.43	169.78
225.0	546.23	453.04	375.40	311.38	258.03	211.46	172.77	140.50	113.90
270.0	792.01	638.79	555.22	464.39	383.60	317.32	305.07	281.68	170.46
315.0	526.15	438.84	366.31	316.27	260.55	212.41	172.14	139.45	112.38
360.0	388.02	323.79	268.44	221.08	180.71	147.91	120.37	98.29	81.21

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	67.91	58.50	51.35	45.62	40.79	37.69	33.80	30.96	29.07
45.0	72.59	61.97	53.98	47.78	43.73	38.74	35.95	32.96	30.28
90.0	58.71	53.77	46.99	41.89	37.74	34.32	31.43	28.96	26.81
135.0	90.04	74.80	63.39	54.88	48.25	42.89	38.58	35.27	32.22
180.0	128.20	105.34	93.61	72.38	65.18	55.66	48.41	42.79	38.42
225.0	93.40	83.21	65.12	59.08	51.20	45.05	40.05	36.11	32.85
270.0	137.08	111.01	89.72	74.01	61.92	52.77	45.89	40.84	38.27
315.0	91.35	75.22	63.44	54.82	48.20	43.05	38.84	35.32	32.43
360.0	67.91	58.50	51.35	45.62	40.79	37.69	33.80	30.96	29.07

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.91	25.02	23.34	21.92	20.60	19.50	18.50	17.71	18.55
45.0	28.02	25.91	24.23	22.60	21.29	20.13	19.03	18.40	19.82
90.0	24.91	23.18	21.66	20.45	19.34	18.24	17.29	16.98	17.77
135.0	29.75	28.38	25.60	24.02	22.97	21.60	20.45	19.34	18.29
180.0	34.85	31.91	29.33	27.12	25.18	23.50	21.92	20.55	19.34
225.0	30.01	27.54	25.49	23.71	22.23	20.81	19.55	18.50	17.50
270.0	34.64	30.38	28.86	26.54	24.65	23.07	21.45	20.08	18.92
315.0	29.86	27.70	25.76	24.13	22.55	21.18	20.55	19.45	18.03
360.0	26.91	25.02	23.34	21.92	20.60	19.50	18.50	17.71	18.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.98	19.24	19.03	18.55	17.82	17.08	16.40	15.66	14.35
45.0	17.77	17.92	24.55	23.97	23.13	16.61	20.71	19.76	19.45
90.0	18.08	18.08	17.98	17.66	17.14	16.35	15.77	15.61	15.40
135.0	17.50	16.71	15.93	15.19	14.51	13.82	13.09	12.35	11.67
180.0	18.29	17.24	16.71	15.45	14.61	14.19	13.09	12.62	11.83
225.0	16.56	15.61	14.88	14.09	13.61	12.56	12.19	11.41	10.72
270.0	17.87	16.87	15.98	15.19	14.35	13.56	12.83	12.14	11.41
315.0	17.56	16.71	15.93	15.14	14.35	13.56	12.83	12.14	11.41
360.0	18.98	19.24	19.03	18.55	17.82	17.08	16.40	15.66	14.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.04	11.56	10.62	8.62	7.99	6.94	6.20	5.73	5.15
45.0	17.56	17.03	12.30	10.35	8.52	7.57	6.62	5.99	5.47
90.0	13.61	11.93	10.14	8.62	7.31	6.36	5.73	5.15	4.63
135.0	11.04	10.41	9.83	9.20	8.73	8.04	7.10	6.73	6.04
180.0	11.25	10.51	9.78	9.25	8.67	7.99	7.41	6.83	6.25
225.0	10.20	9.51	8.83	8.36	7.78	7.25	6.68	6.04	5.47
270.0	10.67	10.04	9.57	8.99	8.36	7.94	7.31	6.73	6.20
315.0	10.67	10.09	9.57	8.88	8.25	7.67	7.04	6.68	5.73
360.0	13.04	11.56	10.62	8.62	7.99	6.94	6.20	5.73	5.15

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.63	4.05	3.63	3.21	2.79	2.52	2.21	1.94	1.79
45.0	4.84	4.31	3.73	3.31	2.89	2.52	2.21	2.00	1.89
90.0	4.05	3.63	3.26	2.84	2.47	2.26	1.94	1.79	1.84
135.0	5.52	4.68	4.15	3.57	3.21	2.73	2.31	2.00	1.37
180.0	5.68	5.10	4.47	3.84	3.31	2.84	2.47	2.05	1.73
225.0	4.99	4.52	3.89	3.31	2.94	2.52	2.16	1.79	1.47
270.0	5.62	4.99	4.63	3.94	3.36	2.89	2.42	2.05	1.84
315.0	5.26	4.78	4.10	3.68	3.26	2.79	2.47	2.16	1.84
360.0	4.63	4.05	3.63	3.21	2.79	2.52	2.21	1.94	1.79

Intensity data(cd)

C/γ(°)	90.0
0.0	1.84
45.0	1.94
90.0	1.84
135.0	1.42
180.0	1.37
225.0	1.31
270.0	1.42
315.0	1.68
360.0	1.84