NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2763-L
Luminaire: 92.70.412.00
Report No: 2024814-B027
Ballast type: AC

Test No: 2024814-C027	Voltage(V): 34.610
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.694
Lamp flux(lm): 3147.0	Power (W): 24.010
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2912.75, Efficiency(%): 92.56% , Luminous Efficacy(lm/W): 121.31
Central intensity(cd): 4261.741, Maximum intensity(cd): 4261.741
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=50.8
[C90/270]Total=50.8
Field angle(10%Imax): [C0/180]Total=74.4
[C90/270]Total=74.4
Maximum s/h(1/2): C0_180=0.80 C90_270=0.80
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(%): 92.56%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.204%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4261.741	0.000	0	0.00%	0.00%
1.0	4260.079	4.078	4.078	0.13%	0.14%
2.0	4261.124	12.230	16.308	0.39%	0.56%
3.0	4253.824	20.365	36.673	0.65%	1.26%
4.0	4239.882	28.431	65.104	0.90%	2.24%
5.0	4218.712	36.388	101.493	1.16%	3.48%
6.0	4196.294	44.223	145.716	1.41%	5.00%
7.0	4162.996	51.886	197.602	1.65%	6.78%
8.0	4121.557	59.291	256.893	1.88%	8.82%
9.0	4068.278	66.374	323.267	2.11%	11.10%
10.0	4006.366	73.073	396.339	2.32%	13.61%
11.0	3935.190	79.352	475.692	2.52%	16.33%
12.0	3850.216	85.106	560.797	2.70%	19.25%
13.0	3765.814	90.383	651.18	2.87%	22.36%
14.0	3665.308	95.118	746.298	3.02%	25.62%
15.0	3559.868	99.190	845.489	3.15%	29.03%
16.0	3449.545	102.708	948.196	3.26%	32.55%
17.0	3326.484	105.521	1053.717	3.35%	36.18%
18.0	3203.835	107.671	1161.388	3.42%	39.87%
19.0	3069.341	109.140	1270.528	3.47%	43.62%
20.0	2933.684	109.872	1380.4	3.49%	47.39%
21.0	2798.020	110.060	1490.461	3.50%	51.17%
22.0	2651.686	109.514	1599.975	3.48%	54.93%
23.0	2501.817	108.134	1708.109	3.44%	58.64%
24.0	2345.457	105.979	1814.088	3.37%	62.28%
25.0	2193.624	103.209	1917.297	3.28%	65.82%
26.0	2024.543	99.570	2016.867	3.16%	69.24%
27.0	1865.115	95.161	2112.028	3.02%	72.51%
28.0	1701.304	90.294	2202.323	2.87%	75.61%
29.0	1536.928	84.721	2287.044	2.69%	78.52%
30.0	1378.136	78.706	2365.75	2.50%	81.22%
31.0	1173.819	71.017	2436.767	2.26%	83.66%
32.0	1027.866	63.076	2499.843	2.00%	85.82%
33.0	896.651	56.697	2556.54	1.80%	87.77%
34.0	748.424	49.785	2606.325	1.58%	89.48%
35.0	624.902	42.650	2648.975	1.36%	90.94%
36.0	525.126	36.617	2685.592	1.16%	92.20%
37.0	439.672	31.466	2717.059	1.00%	93.28%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	364.422	26.840	2743.898	0.85%	94.20%
39.0	308.903	22.982	2766.881	0.73%	94.99%
40.0	259.534	19.825	2786.706	0.63%	95.67%
41.0	204.613	16.528	2803.234	0.53%	96.24%
42.0	177.793	13.893	2817.127	0.44%	96.72%
43.0	131.702	11.465	2828.592	0.36%	97.11%
44.0	104.967	8.933	2837.524	0.28%	97.42%
45.0	85.775	7.330	2844.855	0.23%	97.67%
46.0	70.854	6.125	2850.98	0.19%	97.88%
47.0	59.836	5.198	2856.178	0.17%	98.06%
48.0	49.704	4.428	2860.606	0.14%	98.21%
49.0	43.128	3.812	2864.418	0.12%	98.34%
50.0	38.174	3.390	2867.808	0.11%	98.46%
51.0	33.660	3.039	2870.847	0.10%	98.56%
52.0	30.342	2.746	2873.594	0.09%	98.66%
53.0	27.543	2.518	2876.112	0.08%	98.74%
54.0	25.204	2.325	2878.436	0.07%	98.82%
55.0	23.200	2.161	2880.597	0.07%	98.90%
56.0	21.439	2.017	2882.614	0.06%	98.97%
57.0	19.934	1.892	2884.506	0.06%	99.03%
58.0	18.581	1.781	2886.287	0.06%	99.09%
59.0	17.418	1.683	2887.97	0.05%	99.15%
60.0	16.380	1.597	2889.567	0.05%	99.20%
61.0	15.526	1.523	2891.089	0.05%	99.26%
62.0	14.678	1.455	2892.545	0.05%	99.31%
63.0	13.949	1.392	2893.937	0.04%	99.35%
64.0	13.364	1.340	2895.277	0.04%	99.40%
65.0	12.766	1.293	2896.57	0.04%	99.44%
66.0	12.201	1.246	2897.816	0.04%	99.49%
67.0	11.629	1.198	2899.014	0.04%	99.53%
68.0	11.091	1.151	2900.165	0.04%	99.57%
69.0	10.421	1.097	2901.263	0.03%	99.61%
70.0	9.796	1.038	2902.301	0.03%	99.64%
71.0	9.238	0.984	2903.285	0.03%	99.67%
72.0	8.647	0.930	2904.215	0.03%	99.71%
73.0	8.154	0.879	2905.093	0.03%	99.74%
74.0	7.641	0.830	2905.924	0.03%	99.77%
75.0	7.168	0.782	2906.706	0.02%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.669	0.735	2907.441	0.02%	99.82%
77.0	6.183	0.685	2908.126	0.02%	99.84%
78.0	5.677	0.635	2908.761	0.02%	99.86%
79.0	5.197	0.584	2909.345	0.02%	99.88%
80.0	4.685	0.533	2909.878	0.02%	99.90%
81.0	4.244	0.483	2910.36	0.02%	99.92%
82.0	3.745	0.433	2910.794	0.01%	99.93%
83.0	3.279	0.382	2911.176	0.01%	99.95%
84.0	2.845	0.334	2911.509	0.01%	99.96%
85.0	2.497	0.292	2911.801	0.01%	99.97%
86.0	2.155	0.254	2912.055	0.01%	99.98%
87.0	1.833	0.218	2912.273	0.01%	99.98%
88.0	1.557	0.186	2912.459	0.01%	99.99%
89.0	1.321	0.158	2912.617	0.01%	100.00%
90.0	1.202	0.138	2912.755	0.00%	100.00%

Zonal flux distribution table

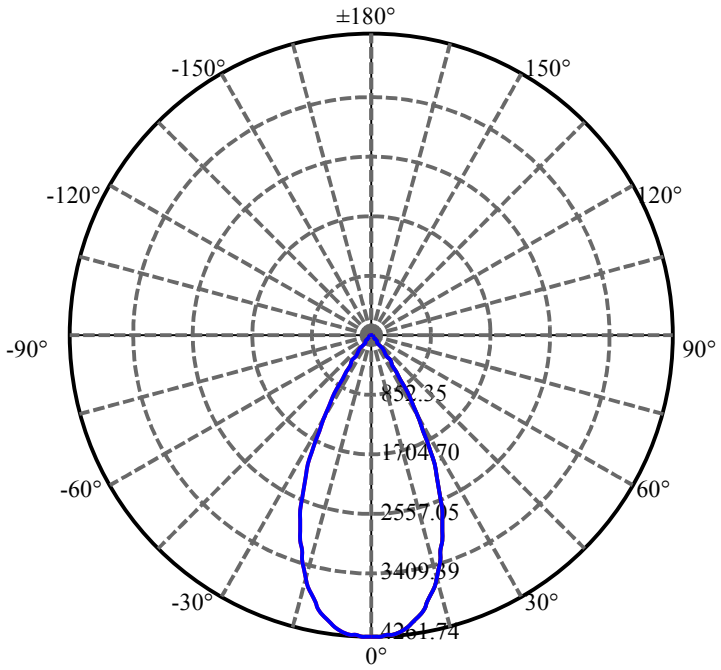
ZONAL LUMEN SUMMARY

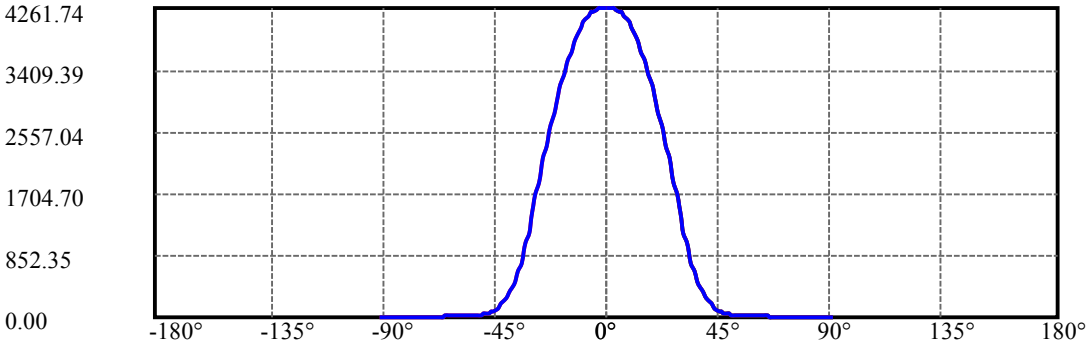
Zone	Lumens	%Lamp	%Fixt
0-30	2365.75	75.17%	81.22%
0-40	2786.71	88.55%	95.67%
0-60	2889.57	91.82%	99.20%
0-90	2912.62	92.55%	100.00%
0-120	2912.62	92.55%	100.00%
0-180	2912.75	92.56%	100.00%
60-90	23.05	0.73%	0.79%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.55	2330.20	74.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	396.34
10-20	984.06
20-30	985.35
30-40	420.96
40-50	81.10
50-60	21.76
60-70	12.73
70-80	7.58
80-90	2.74
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):

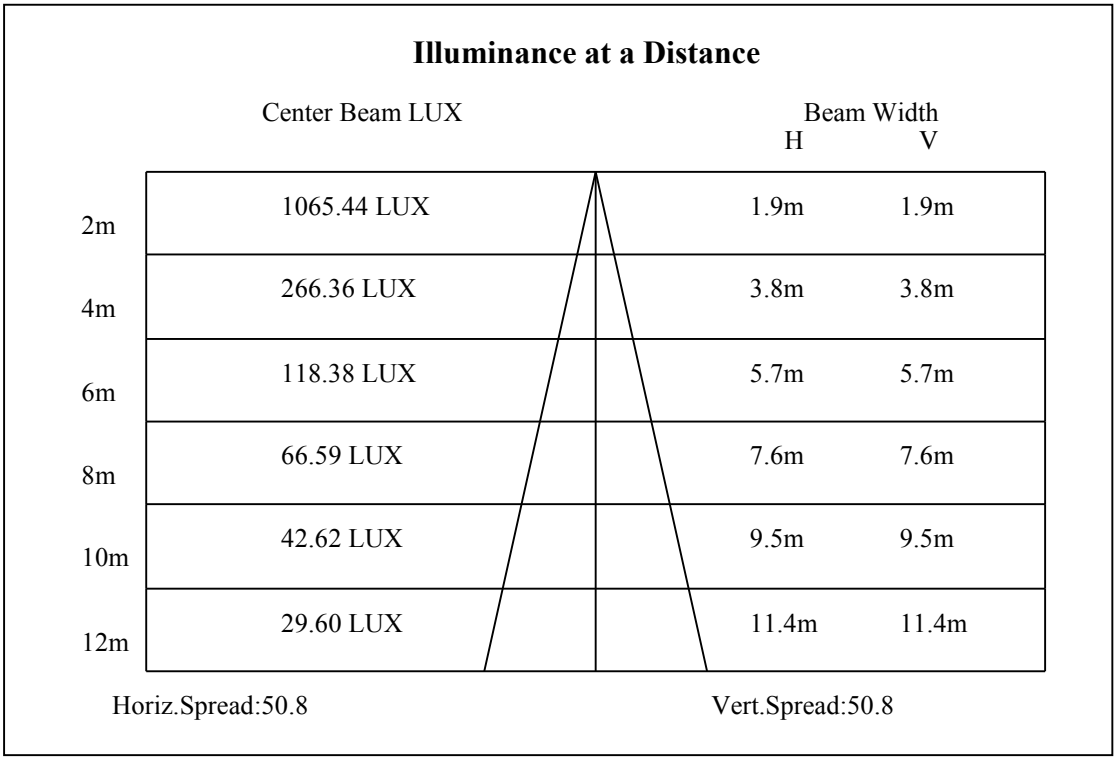
C0/C180:

C90/C270:

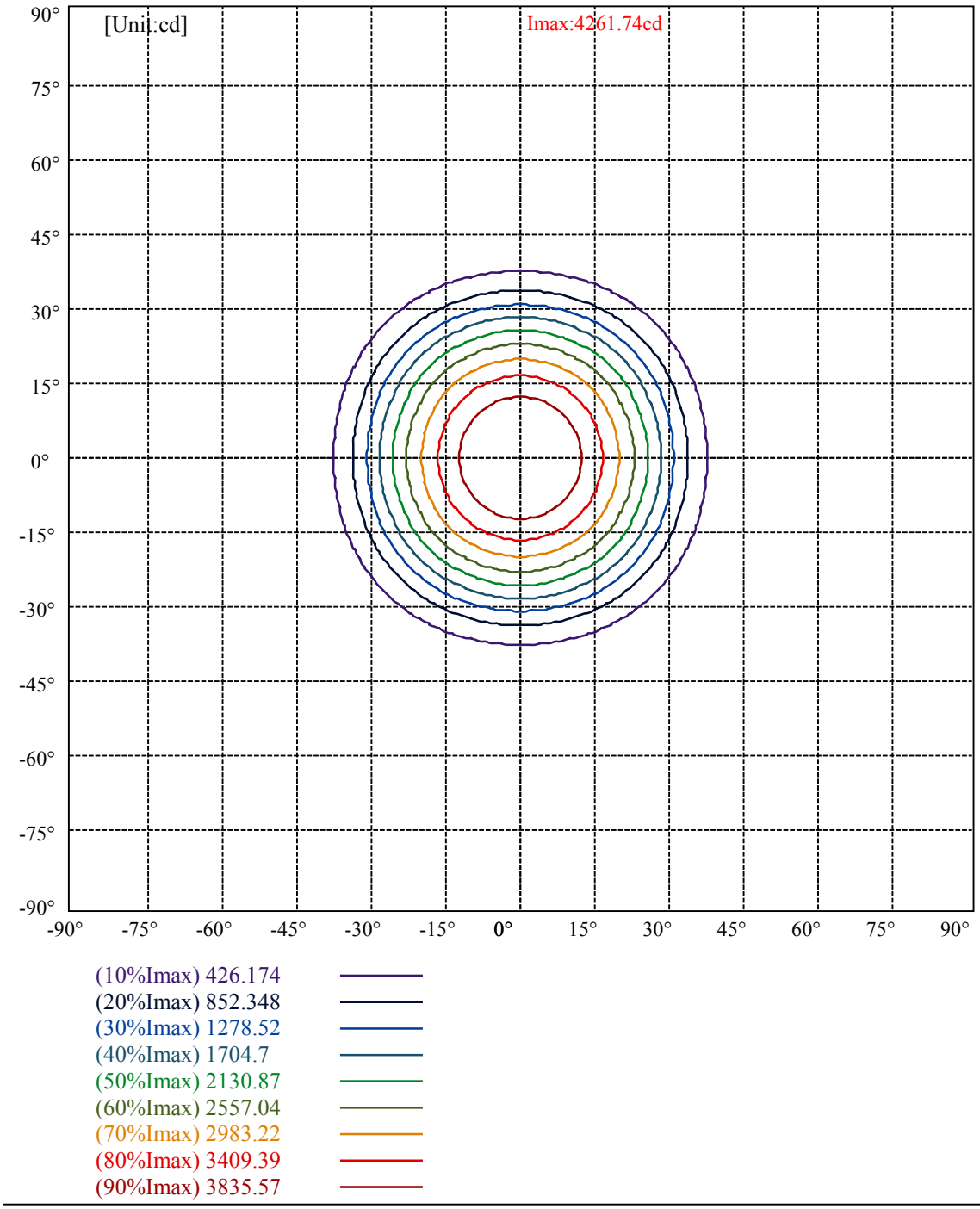
Field angle(10%Imax):C0/180Left:37.2 Right:37.2
:C90/270Left:37.2 Right:37.2

Beam Angle(50%Imax):C0/180Left:25.4 Right:25.4
:C90/270Left:25.4 Right:25.4

Lux distance Curve



ISO-Intensity(V-H)



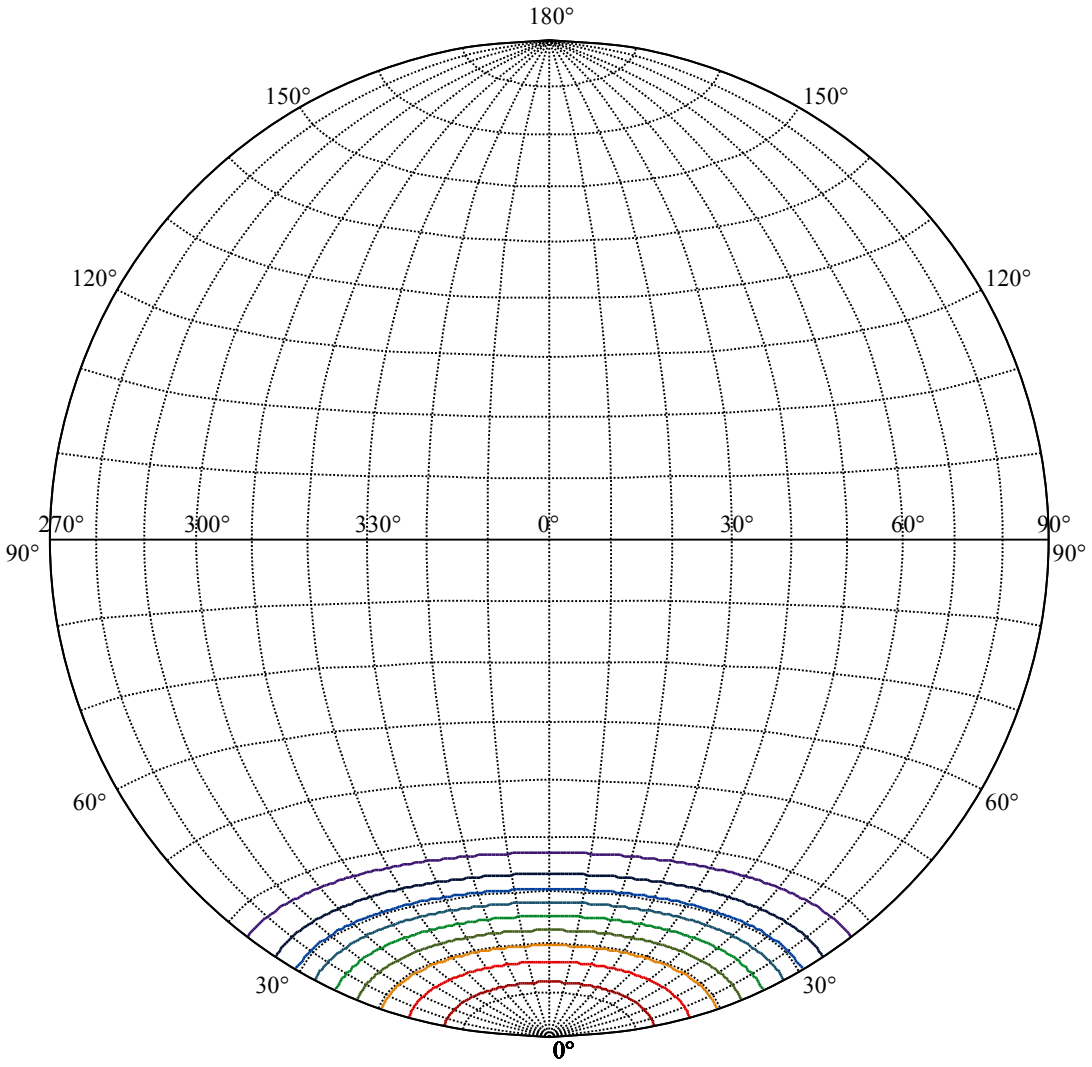
(10%Imax) 426.174
(20%Imax) 852.348
(30%Imax) 1278.52
(40%Imax) 1704.7
(50%Imax) 2130.87
(60%Imax) 2557.04
(70%Imax) 2983.22
(80%Imax) 3409.39
(90%Imax) 3835.57

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/14
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4261.74

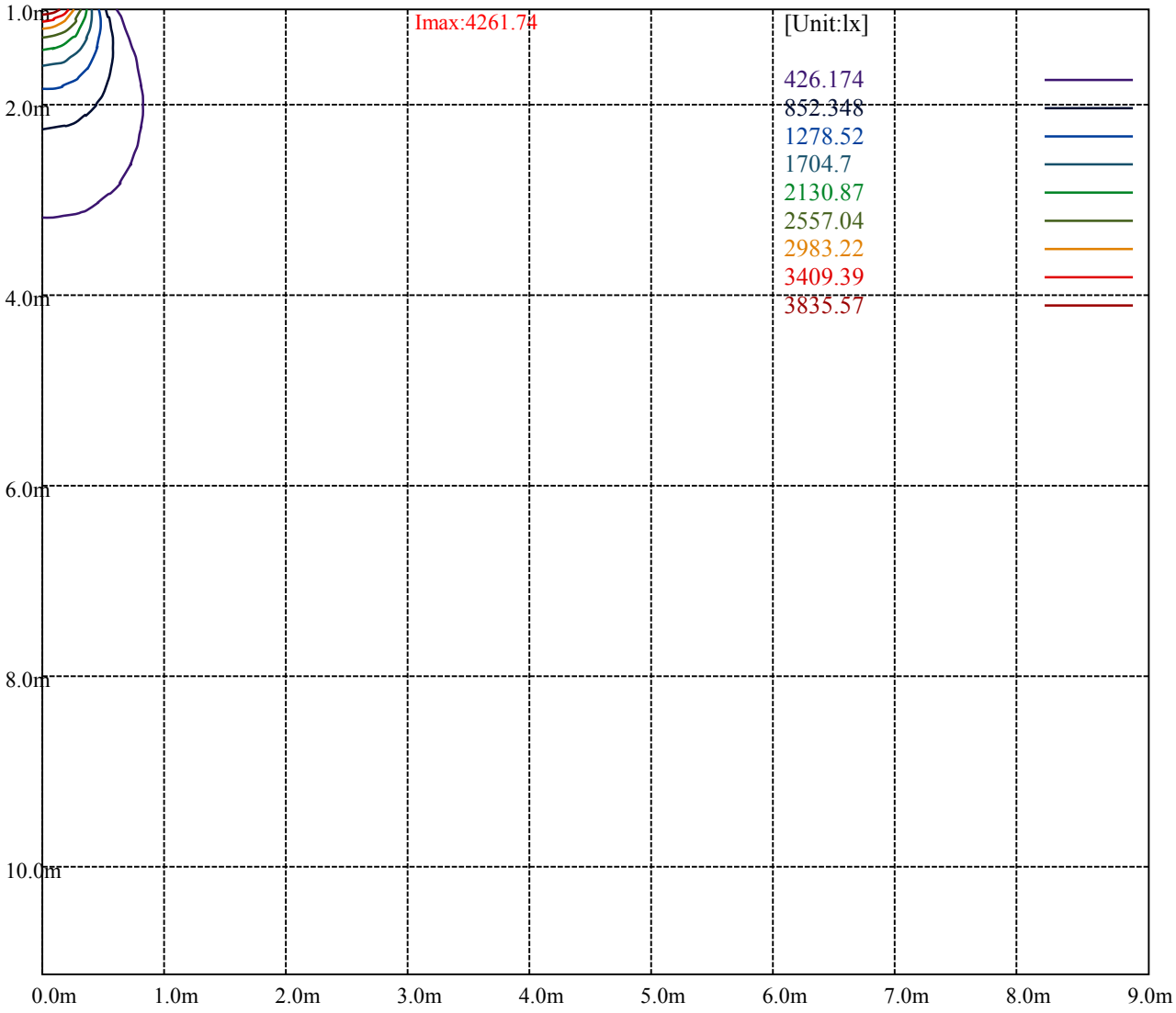
(10%Imax) 426.174
(20%Imax) 852.348
(30%Imax) 1278.52
(40%Imax) 1704.7
(50%Imax) 2130.87
(60%Imax) 2557.04
(70%Imax) 2983.22
(80%Imax) 3409.39
(90%Imax) 3835.57

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/14
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/14
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2763-L

Luminance Limitting Curve(no luminous side)

Luminance Table

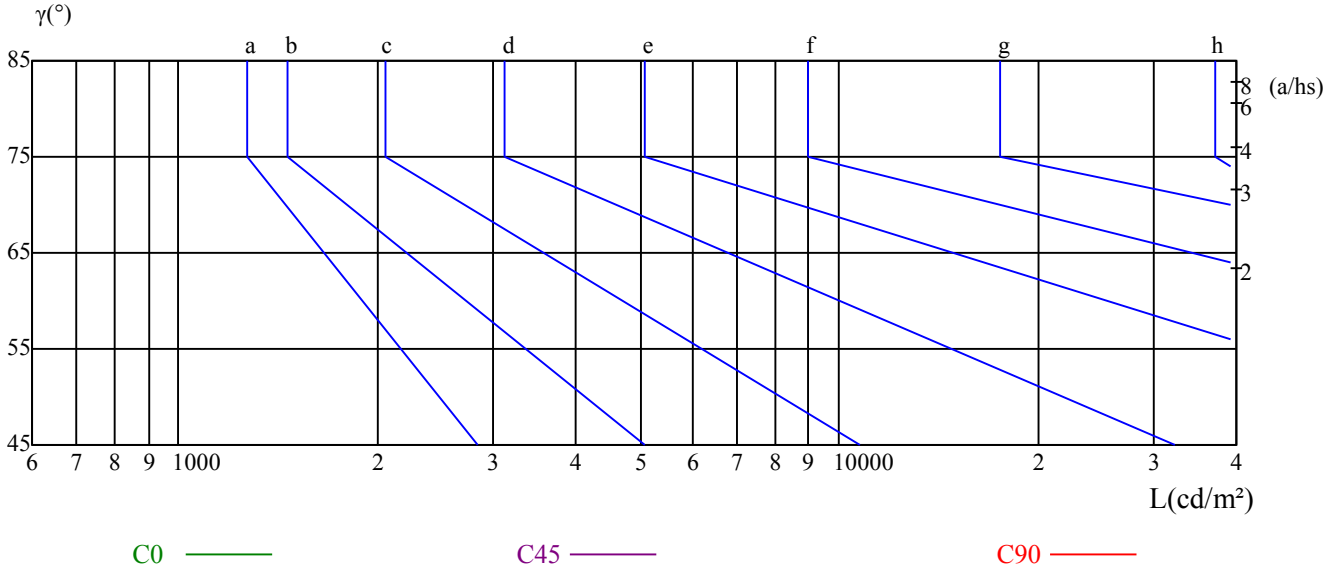
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: 2024/8/14
Humidity(%): 60.0%

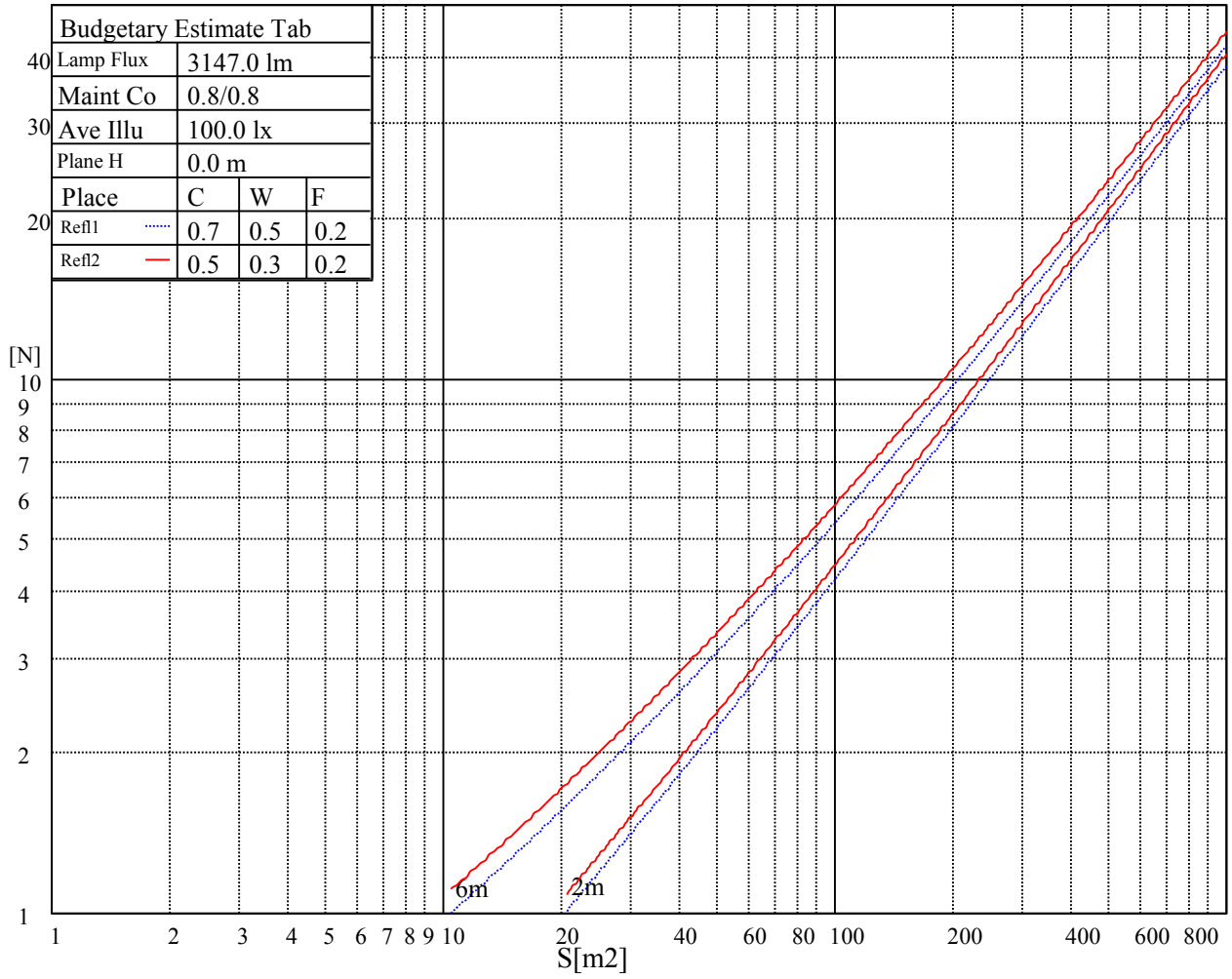
Operator: NT
Distance(m): 7.25

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
Temperature(°C): 25.0

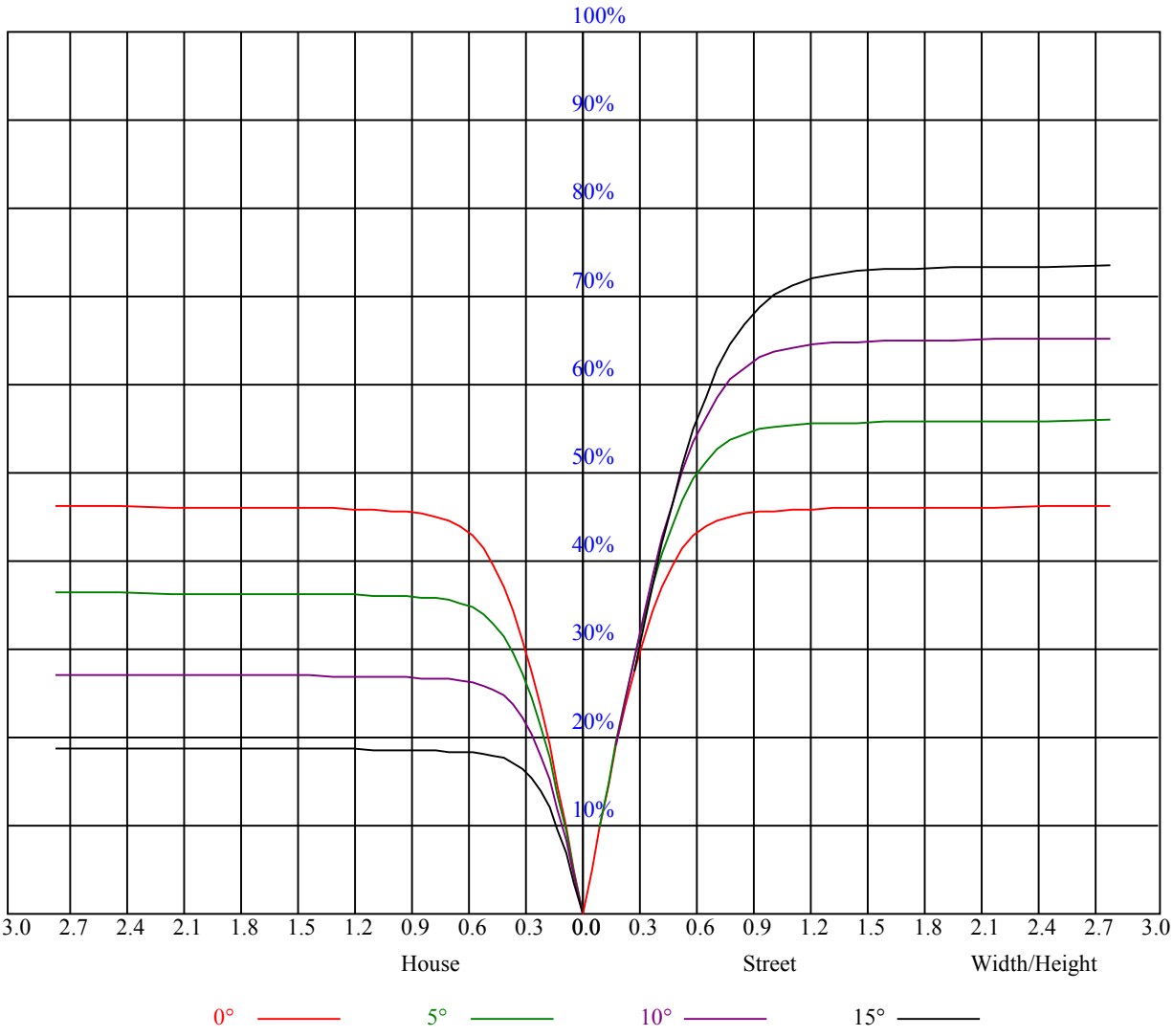
Date: 2024/8/14
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

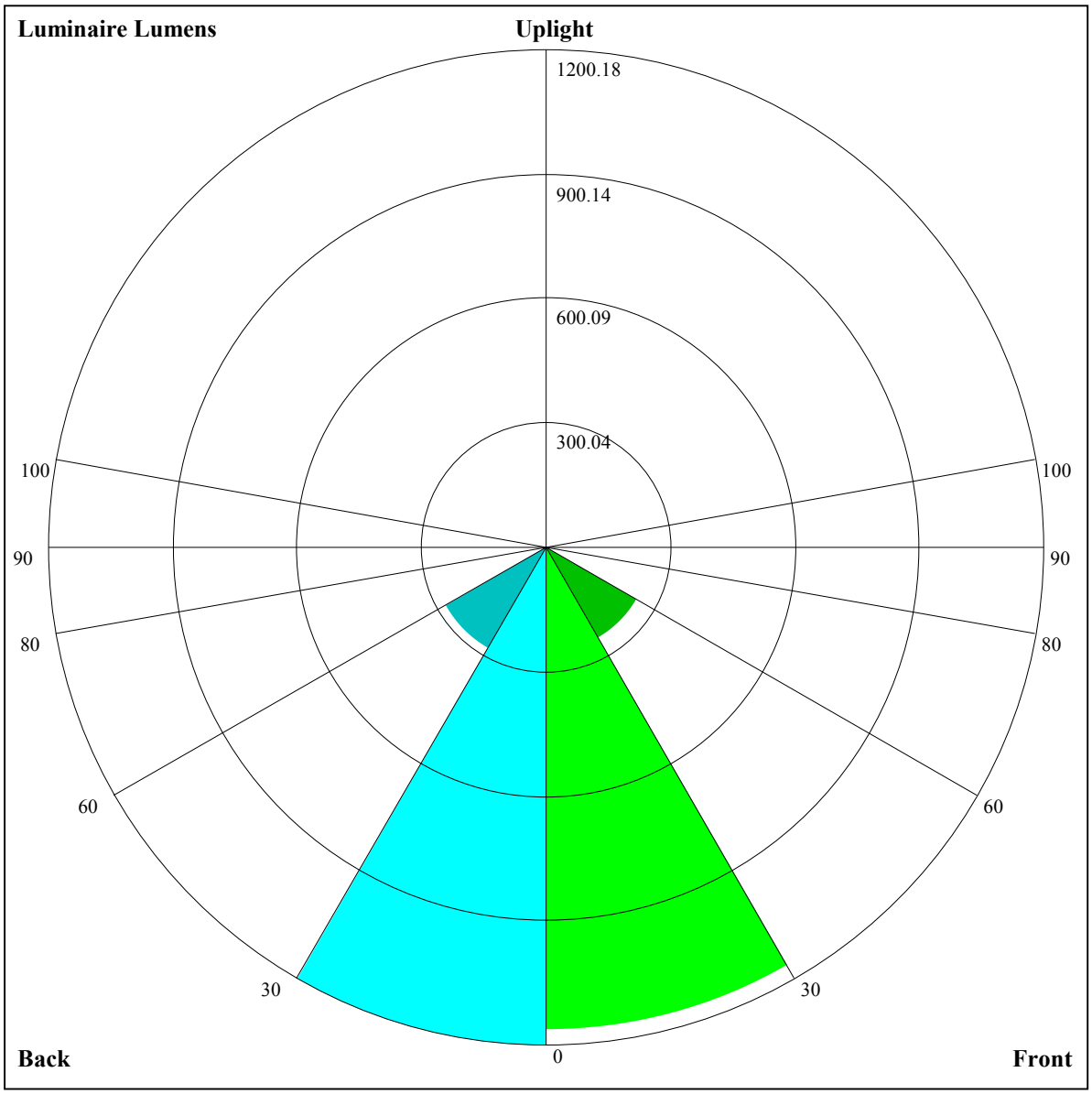
Utilization factor table for indoor luminaire

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	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.71	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	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.56	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	0.61	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: 2024/8/14	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25



Luminaire Lumens:
FL=1164.47,FM=253.9,FH=9.96,FVH=1.43
BL=1200.18,BM=281.07,BH=10.19,BVH=1.46
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	4272.07	4274.28	4263.13	4249.78	4210.20	4162.32	4124.42	4071.49	3995.70
45.0	4251.99	4269.28	4271.49	4266.50	4258.14	4216.35	4191.28	4134.46	4069.81
90.0	4264.24	4261.45	4264.82	4237.54	4216.35	4197.96	4165.11	4112.70	4064.24
135.0	4258.67	4254.25	4259.24	4245.89	4234.17	4214.09	4215.78	4195.17	4162.32
180.0	4272.07	4253.09	4247.52	4249.78	4236.38	4235.28	4212.46	4195.75	4176.25
225.0	4251.99	4255.88	4262.61	4250.89	4240.85	4224.13	4191.28	4160.06	4116.06
270.0	4264.24	4255.35	4249.78	4259.82	4257.04	4249.78	4251.99	4228.60	4204.63
315.0	4258.67	4257.04	4270.39	4270.39	4265.92	4249.78	4218.04	4205.74	4183.45
360.0	4272.07	4274.28	4263.13	4249.78	4210.20	4162.32	4124.42	4071.49	3995.70

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3918.27	3874.22	3787.34	3649.15	3588.44	3480.32	3361.11	3236.85	3105.34
45.0	4023.55	3916.59	3815.20	3752.23	3642.48	3538.30	3427.97	3305.39	3172.78
90.0	3972.88	3888.73	3810.15	3704.29	3594.54	3461.92	3323.79	3191.17	3065.23
135.0	4116.06	4054.78	3981.24	3894.88	3810.15	3680.90	3563.90	3471.96	3317.06
180.0	4127.73	4067.60	4001.85	3949.44	3859.77	3760.58	3677.59	3580.61	3468.07
225.0	4058.67	4020.77	3948.92	3840.27	3791.81	3703.19	3619.61	3518.80	3404.58
270.0	4184.03	4142.82	4114.96	4058.09	3966.73	3923.84	3840.79	3737.72	3633.01
315.0	4145.03	4085.42	4021.87	3953.38	3872.59	3773.41	3664.18	3553.86	3445.79
360.0	3918.27	3874.22	3787.34	3649.15	3588.44	3480.32	3361.11	3236.85	3105.34

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2965.52	2821.19	2689.15	2557.11	2417.24	2275.17	2122.53	1959.27	1792.70
45.0	3036.85	2896.40	2757.69	2615.62	2476.32	2332.04	2183.24	2026.70	1872.38
90.0	2936.56	2797.27	2652.41	2505.29	2345.39	2192.75	2030.59	1864.55	1697.40
135.0	3217.35	3083.05	2942.66	2799.48	2650.15	2485.26	2316.43	2152.59	1983.24
180.0	3344.92	3208.99	3079.74	2948.23	2809.52	2668.55	2523.11	2373.25	2217.82
225.0	3275.27	3130.41	2996.17	2878.06	2737.61	2587.76	2431.75	2269.60	2106.39
270.0	3526.00	3408.99	3271.38	3141.03	2997.85	2857.40	2700.87	2538.72	2369.89
315.0	3328.20	3208.42	3080.27	2939.35	2779.40	2615.62	2455.14	2364.31	2156.53
360.0	2965.52	2821.19	2689.15	2557.11	2417.24	2275.17	2122.53	1959.27	1792.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1630.02	1471.22	1297.35	1072.22	1003.05	841.74	700.50	584.60	484.36
45.0	1718.01	1561.47	1397.64	1228.28	1056.14	890.62	768.04	636.58	530.15
90.0	1529.15	1275.06	1080.53	1080.53	909.12	755.69	627.33	519.90	428.38
135.0	1825.02	1661.19	1494.04	1317.43	1136.93	963.05	798.69	714.01	553.54
180.0	2060.66	1904.65	1744.76	1578.71	1406.57	1226.60	1046.62	880.05	731.30
225.0	1957.59	1806.05	1682.37	1485.68	1057.24	1057.24	990.17	825.65	683.05
270.0	2205.52	2037.27	1877.37	1714.69	1549.75	1448.36	1273.43	1021.03	915.69
315.0	1994.96	1893.51	1721.37	1547.55	1271.75	1039.63	968.41	805.57	672.75
360.0	1630.02	1471.22	1297.35	1072.22	1003.05	841.74	700.50	584.60	484.36

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	403.26	333.30	274.90	225.23	182.39	147.65	119.26	96.24	78.32
45.0	442.68	368.57	305.60	294.46	238.37	167.46	135.24	109.17	88.73
90.0	352.80	288.78	234.27	188.80	149.75	119.47	95.72	76.90	62.39
135.0	459.40	409.83	336.82	299.50	299.50	180.92	144.55	115.06	91.77
180.0	656.09	548.54	459.97	383.08	316.74	293.35	282.21	174.45	142.13
225.0	569.09	475.59	396.58	328.88	271.54	222.34	181.13	147.81	120.42
270.0	755.27	623.18	517.32	429.33	352.96	289.46	289.46	181.08	144.86
315.0	562.42	469.59	389.91	321.95	265.02	216.24	174.77	152.90	111.12
360.0	403.26	333.30	274.90	225.23	182.39	147.65	119.26	96.24	78.32

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	64.44	57.77	45.99	40.16	37.27	33.11	29.80	27.12	24.76
45.0	78.84	60.87	55.19	47.25	39.16	36.43	32.64	29.44	26.75
90.0	51.88	44.10	39.32	33.90	30.91	27.96	25.49	23.34	21.50
135.0	73.69	60.03	50.35	43.26	38.06	33.90	30.59	28.38	25.60
180.0	115.43	94.19	77.27	64.07	53.88	45.78	40.95	35.27	32.43
225.0	98.55	81.00	67.39	56.66	51.30	44.42	38.90	34.48	31.01
270.0	115.32	92.25	81.00	60.45	50.30	45.41	37.06	34.32	30.75
315.0	88.04	76.64	62.18	51.88	44.15	38.37	33.85	30.38	27.54
360.0	64.44	57.77	45.99	40.16	37.27	33.11	29.80	27.12	24.76

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.76	21.18	19.76	18.45	17.19	16.24	15.35	14.56	13.93
45.0	24.44	22.50	20.71	19.24	17.98	16.82	15.82	14.88	14.09
90.0	19.92	18.55	17.29	16.24	15.30	14.45	13.61	13.04	12.51
135.0	24.02	22.34	20.76	19.45	18.24	17.24	16.35	15.45	14.77
180.0	29.38	26.81	24.60	22.71	20.97	19.50	18.24	17.14	16.08
225.0	28.17	25.76	23.65	21.87	20.29	18.87	17.61	16.56	15.51
270.0	27.75	25.28	23.23	21.55	19.97	18.66	17.50	16.56	15.66
315.0	25.18	23.18	21.50	19.97	18.71	17.56	16.56	16.03	14.88
360.0	22.76	21.18	19.76	18.45	17.19	16.24	15.35	14.56	13.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.46	13.19	12.72	12.19	11.83	11.04	10.41	9.62	8.83
45.0	13.46	12.98	12.40	12.04	11.46	10.83	10.35	9.67	9.04
90.0	11.98	11.41	10.99	10.41	9.88	9.57	8.78	8.30	7.99
135.0	14.09	13.46	12.88	12.30	11.67	11.14	10.51	9.88	9.36
180.0	15.09	14.30	13.56	12.88	12.14	11.46	10.83	10.14	9.51
225.0	14.61	13.77	13.19	12.35	11.62	11.14	10.35	9.83	9.20
270.0	14.77	13.98	13.30	12.72	12.19	11.83	10.99	10.41	9.93
315.0	14.14	13.82	13.09	12.72	12.25	11.72	11.14	10.51	10.04
360.0	13.46	13.19	12.72	12.19	11.83	11.04	10.41	9.62	8.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.30	7.78	7.31	6.68	6.15	5.68	5.15	4.68	4.15
45.0	8.52	7.94	7.41	6.89	6.41	5.89	5.31	4.78	4.26
90.0	7.31	6.99	6.52	6.04	5.62	5.05	4.57	4.15	3.68
135.0	8.83	8.57	7.88	7.67	7.10	6.62	6.10	5.62	4.99
180.0	9.15	8.30	7.94	7.52	6.83	6.52	6.04	5.57	5.05
225.0	8.46	7.94	7.52	7.04	6.62	6.04	5.57	5.10	4.63
270.0	9.15	8.83	8.30	7.73	7.31	6.89	6.41	5.89	5.47
315.0	9.46	8.88	8.25	7.78	7.31	6.78	6.25	5.78	5.26
360.0	8.30	7.78	7.31	6.68	6.15	5.68	5.15	4.68	4.15

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.78	3.36	2.89	2.52	2.21	1.94	1.68	1.42	1.21
45.0	3.84	3.36	2.89	2.42	2.10	1.79	1.52	1.21	1.05
90.0	3.21	2.79	2.42	2.16	1.89	1.68	1.42	1.21	1.21
135.0	4.52	3.89	3.42	3.00	2.63	2.21	1.94	1.68	1.10
180.0	4.57	3.89	3.47	3.10	2.68	2.26	1.84	1.52	1.31
225.0	4.21	3.78	3.36	2.89	2.42	2.21	1.79	1.52	1.26
270.0	4.99	4.52	3.94	3.36	3.05	2.52	2.21	1.94	1.68
315.0	4.84	4.36	3.84	3.31	3.00	2.63	2.26	1.94	1.73
360.0	3.78	3.36	2.89	2.52	2.21	1.94	1.68	1.42	1.21

Intensity data(cd)

C/γ(°)	90.0
0.0	1.16
45.0	1.05
90.0	1.21
135.0	1.00
180.0	1.10
225.0	1.10
270.0	1.42
315.0	1.58
360.0	1.16