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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

Client: NT
LumCAT: 62-0068
Luminaire: 92.70.427.00
Report No: 2024718-B001
Ballast type: AC

Test No: 2024718-C001	Voltage(V): 34.910
LampCAT: CREE CXA1820 LES12	Current(A): 0.550
Lamp flux(lm): 2847.2	Power (W): 19.200
Number of Lamps: 1	PF: 0.000
Length(mm): 68	Width(mm): 68
Phm Type: C	Height(mm): 34

Photometric Results

Lumens(lm): 2715.02, Efficiency(%): 95.36% , Luminous Efficacy(lm/W): 141.41
Central intensity(cd): 19043.330, Maximum intensity(cd): 19043.330
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=18.0
[C90/270]Total=18.0
Field angle(10%Imax): [C0/180]Total=35.2
[C90/270]Total=35.2
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.31 C90_270=0.31
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 96.903%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	19043.332	0.000	0	0.00%	0.00%
1.0	18916.316	18.163	18.163	0.64%	0.67%
2.0	18542.781	53.765	71.928	1.89%	2.65%
3.0	17885.852	87.125	159.053	3.06%	5.86%
4.0	17015.182	116.825	275.878	4.10%	10.16%
5.0	15229.182	138.714	414.592	4.87%	15.27%
6.0	14265.704	155.003	569.595	5.44%	20.98%
7.0	12707.406	167.422	737.017	5.88%	27.15%
8.0	11437.593	172.801	909.818	6.07%	33.51%
9.0	9504.059	169.721	1079.539	5.96%	39.76%
10.0	8285.590	160.990	1240.528	5.65%	45.69%
11.0	6961.011	152.345	1392.873	5.35%	51.30%
12.0	5638.552	137.731	1530.605	4.84%	56.38%
13.0	4578.311	121.248	1651.853	4.26%	60.84%
14.0	3743.633	106.520	1758.373	3.74%	64.76%
15.0	3079.533	93.671	1852.045	3.29%	68.21%
16.0	2571.297	82.800	1934.845	2.91%	71.26%
17.0	2064.376	72.190	2007.035	2.54%	73.92%
18.0	1817.611	64.006	2071.04	2.25%	76.28%
19.0	1375.969	55.562	2126.602	1.95%	78.33%
20.0	1165.707	46.520	2173.122	1.63%	80.04%
21.0	955.451	40.731	2213.852	1.43%	81.54%
22.0	829.067	35.861	2249.713	1.26%	82.86%
23.0	706.464	32.220	2281.933	1.13%	84.05%
24.0	590.491	28.356	2310.289	1.00%	85.09%
25.0	517.442	25.192	2335.481	0.88%	86.02%
26.0	437.687	22.546	2358.027	0.79%	86.85%
27.0	375.893	19.904	2377.931	0.70%	87.58%
28.0	327.775	17.815	2395.746	0.63%	88.24%
29.0	286.068	16.060	2411.806	0.56%	88.83%
30.0	246.268	14.373	2426.179	0.50%	89.36%
31.0	220.641	12.993	2439.173	0.46%	89.84%
32.0	197.243	11.972	2451.145	0.42%	90.28%
33.0	163.814	10.637	2461.781	0.37%	90.67%
34.0	147.747	9.429	2471.21	0.33%	91.02%
35.0	133.142	8.723	2479.934	0.31%	91.34%
36.0	121.894	8.120	2488.054	0.29%	91.64%
37.0	111.979	7.628	2495.682	0.27%	91.92%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	104.055	7.211	2502.893	0.25%	92.19%
39.0	97.239	6.871	2509.763	0.24%	92.44%
40.0	92.156	6.605	2516.369	0.23%	92.68%
41.0	87.086	6.383	2522.751	0.22%	92.92%
42.0	82.931	6.177	2528.928	0.22%	93.15%
43.0	80.026	6.036	2534.965	0.21%	93.37%
44.0	77.017	5.927	2540.892	0.21%	93.59%
45.0	74.865	5.837	2546.729	0.21%	93.80%
46.0	73.390	5.798	2552.527	0.20%	94.02%
47.0	72.263	5.793	2558.32	0.20%	94.23%
48.0	71.303	5.804	2564.124	0.20%	94.44%
49.0	70.594	5.827	2569.951	0.20%	94.66%
50.0	69.789	5.853	2575.804	0.21%	94.87%
51.0	68.842	5.865	2581.669	0.21%	95.09%
52.0	67.547	5.853	2587.522	0.21%	95.30%
53.0	65.917	5.806	2593.327	0.20%	95.52%
54.0	63.791	5.717	2599.044	0.20%	95.73%
55.0	61.962	5.613	2604.658	0.20%	95.94%
56.0	59.810	5.503	2610.16	0.19%	96.14%
57.0	57.774	5.376	2615.537	0.19%	96.34%
58.0	55.764	5.250	2620.787	0.18%	96.53%
59.0	53.986	5.131	2625.918	0.18%	96.72%
60.0	52.099	5.012	2630.93	0.18%	96.90%
61.0	50.262	4.885	2635.815	0.17%	97.08%
62.0	48.356	4.752	2640.567	0.17%	97.26%
63.0	46.346	4.606	2645.172	0.16%	97.43%
64.0	44.651	4.465	2649.638	0.16%	97.59%
65.0	42.648	4.320	2653.958	0.15%	97.75%
66.0	40.715	4.159	2658.117	0.15%	97.90%
67.0	38.982	4.007	2662.125	0.14%	98.05%
68.0	36.998	3.849	2665.973	0.14%	98.19%
69.0	34.975	3.672	2669.645	0.13%	98.33%
70.0	33.197	3.501	2673.146	0.12%	98.46%
71.0	31.387	3.338	2676.484	0.12%	98.58%
72.0	29.795	3.181	2679.666	0.11%	98.70%
73.0	28.314	3.039	2682.704	0.11%	98.81%
74.0	26.948	2.905	2685.61	0.10%	98.92%
75.0	25.589	2.776	2688.385	0.10%	99.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	24.249	2.646	2691.031	0.09%	99.12%
77.0	22.889	2.513	2693.544	0.09%	99.21%
78.0	21.620	2.383	2695.927	0.08%	99.30%
79.0	20.300	2.252	2698.179	0.08%	99.38%
80.0	19.082	2.123	2700.302	0.07%	99.46%
81.0	17.832	1.996	2702.299	0.07%	99.53%
82.0	16.615	1.868	2704.166	0.07%	99.60%
83.0	15.423	1.742	2705.908	0.06%	99.66%
84.0	14.250	1.617	2707.525	0.06%	99.72%
85.0	13.239	1.500	2709.025	0.05%	99.78%
86.0	12.202	1.391	2710.416	0.05%	99.83%
87.0	11.255	1.284	2711.699	0.05%	99.88%
88.0	10.366	1.184	2712.884	0.04%	99.92%
89.0	9.650	1.097	2713.981	0.04%	99.96%
90.0	9.238	1.036	2715.016	0.04%	100.00%

Zonal flux distribution table

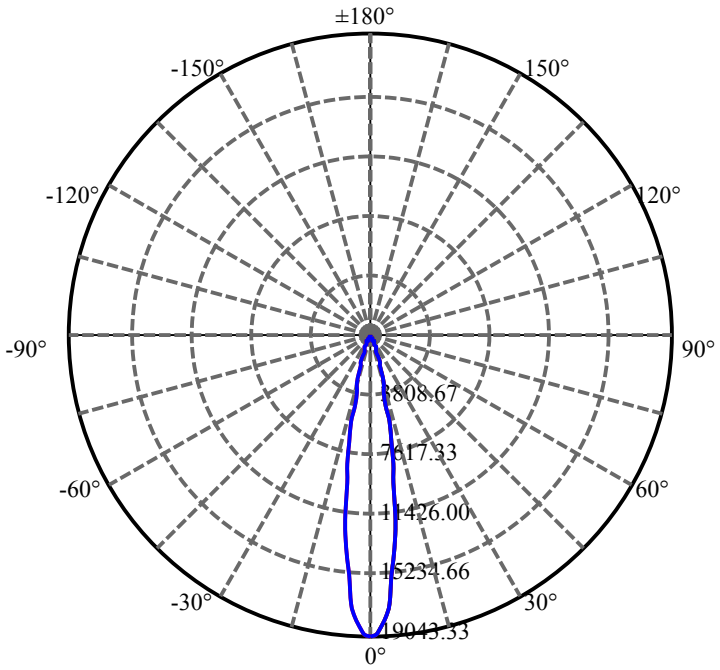
ZONAL LUMEN SUMMARY

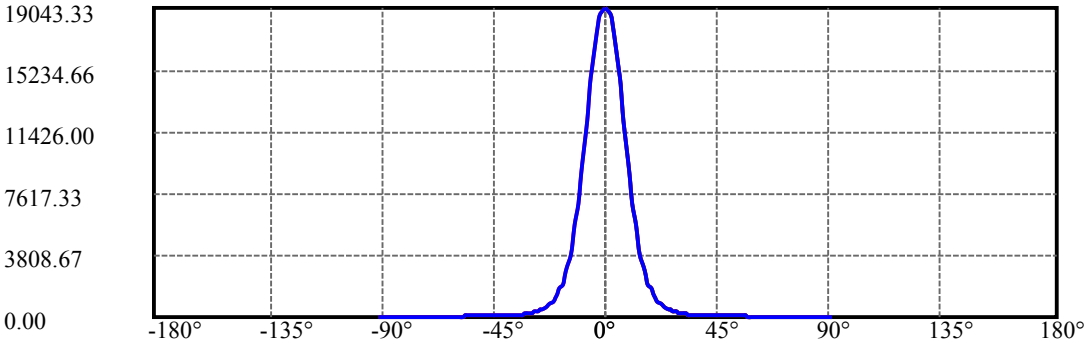
Zone	Lumens	%Lamp	%Fixt
0-30	2426.18	85.21%	89.36%
0-40	2516.37	88.38%	92.68%
0-60	2630.93	92.40%	96.90%
0-90	2713.98	95.32%	99.96%
0-120	2713.98	95.32%	99.96%
0-180	2715.02	95.36%	100.00%
60-90	83.05	2.92%	3.06%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.98	2172.01	76.28%	80.00%

ZONAL LUMEN SUMMARY

0-10	1240.53
10-20	932.59
20-30	253.06
30-40	90.19
40-50	59.44
50-60	55.13
60-70	42.22
70-80	27.16
80-90	13.68
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):

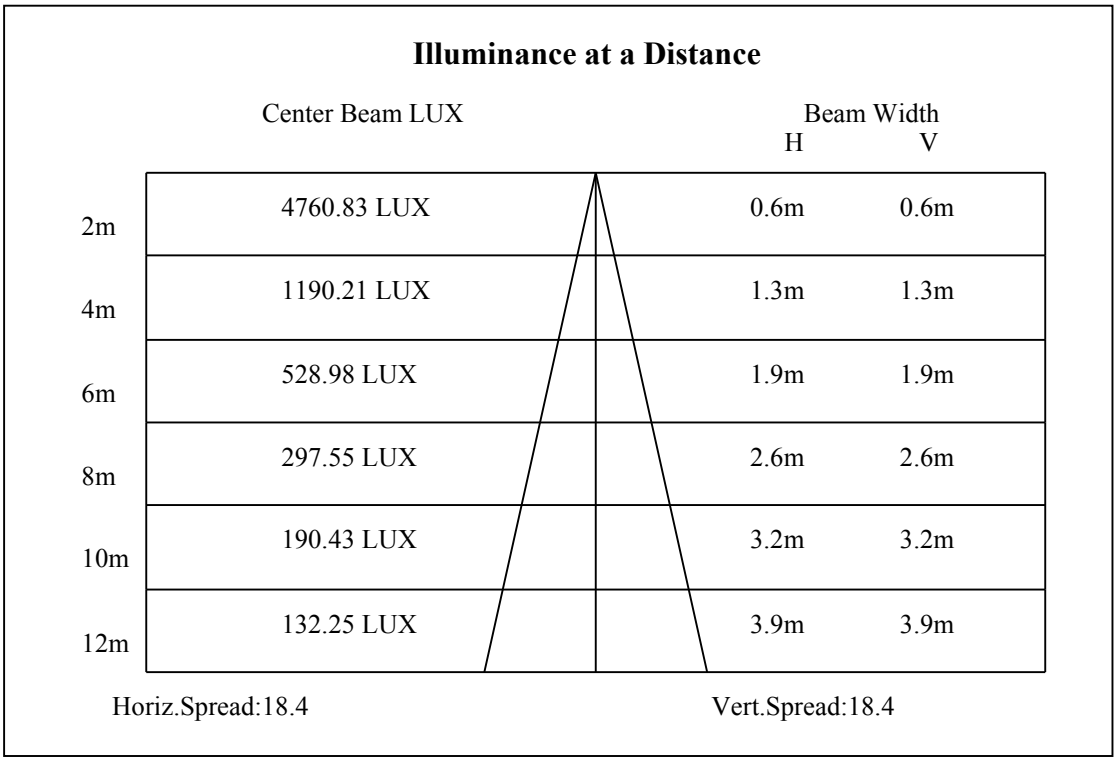
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:17.6 Right:17.6
:C90/270Left:17.6 Right:17.6

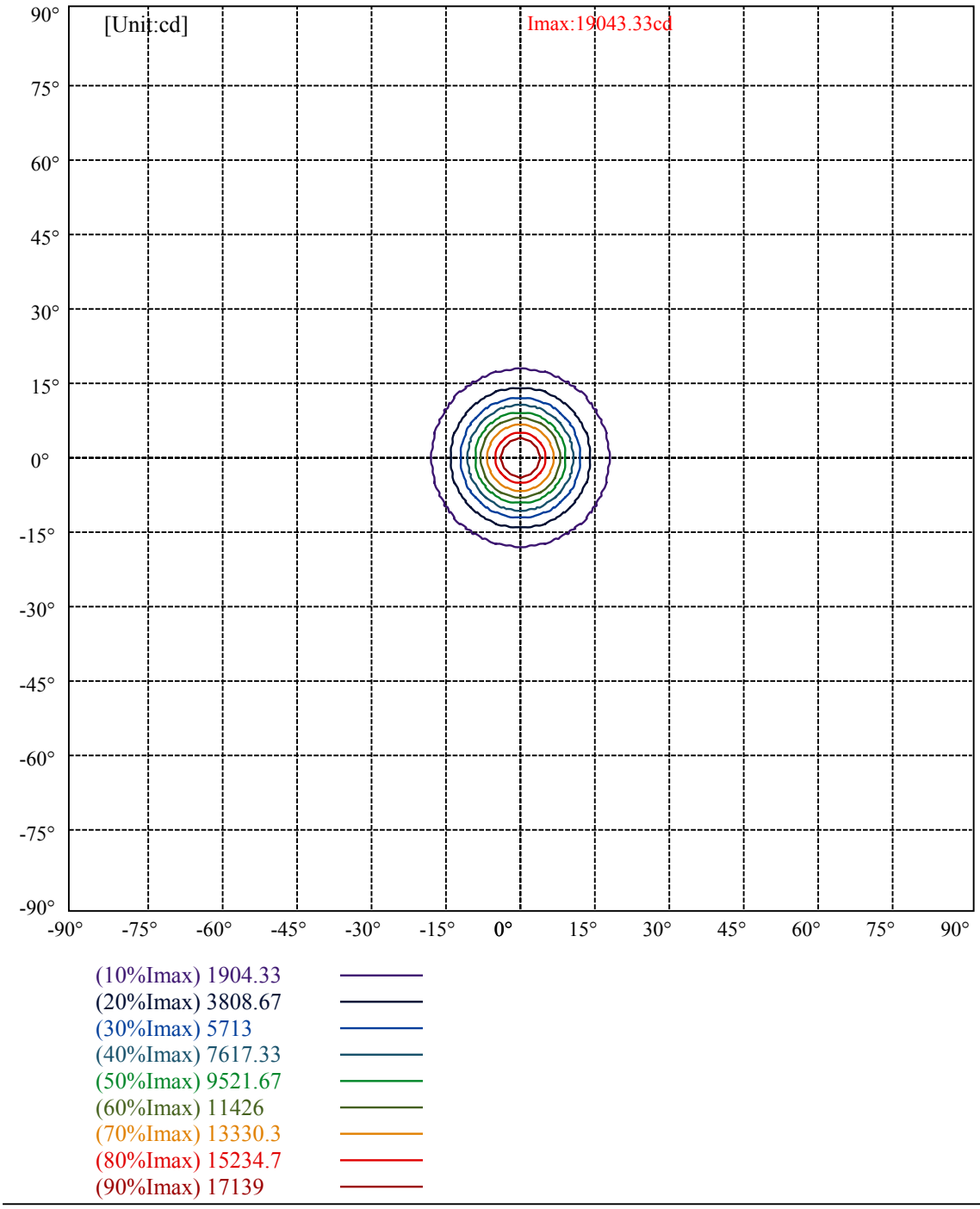
Beam Angle(50%Imax):C0/180Left:9.0 Right:9.0
:C90/270Left:9.0 Right:9.0

Lux distance Curve



Equipment: GMS 1800 Date: 2024/7/18 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.18

ISO-Intensity(V-H)

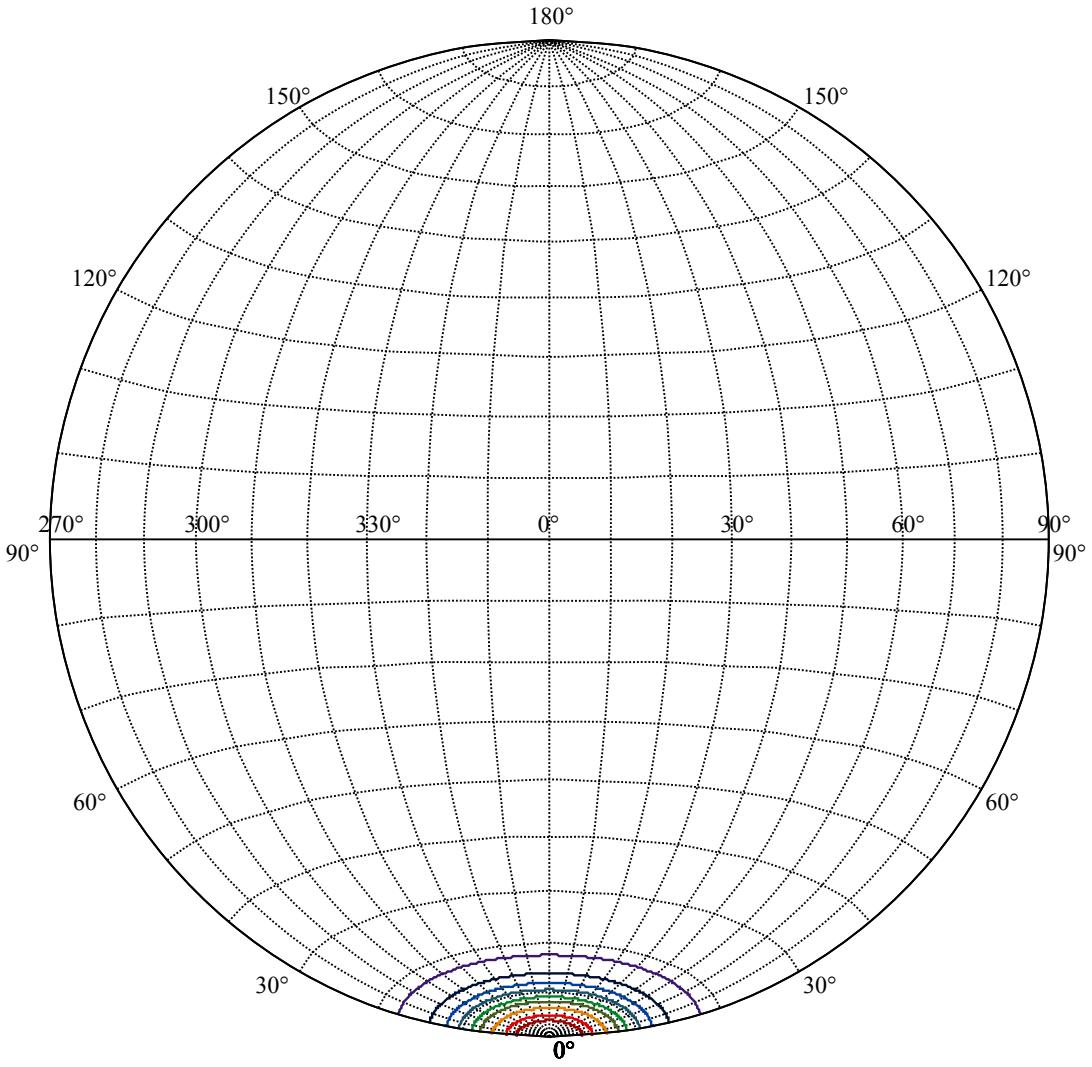


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:19043.33

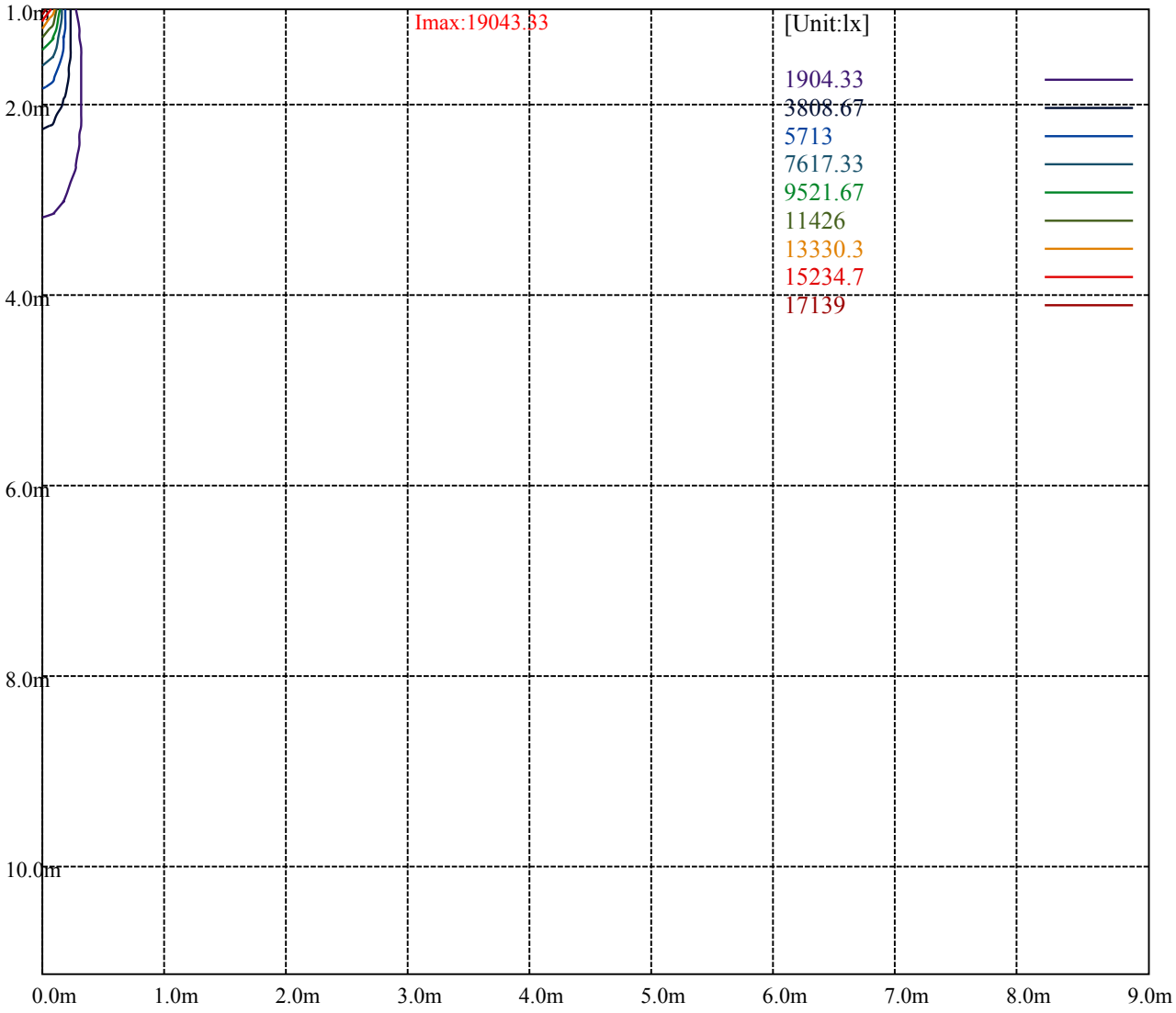
(10%Imax) 1904.33
(20%Imax) 3808.67
(30%Imax) 5713
(40%Imax) 7617.33
(50%Imax) 9521.67
(60%Imax) 11426
(70%Imax) 13330.3
(80%Imax) 15234.7
(90%Imax) 17139

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/7/18
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.18

Luminance Limitting Curve(no luminous side)

Luminance Table

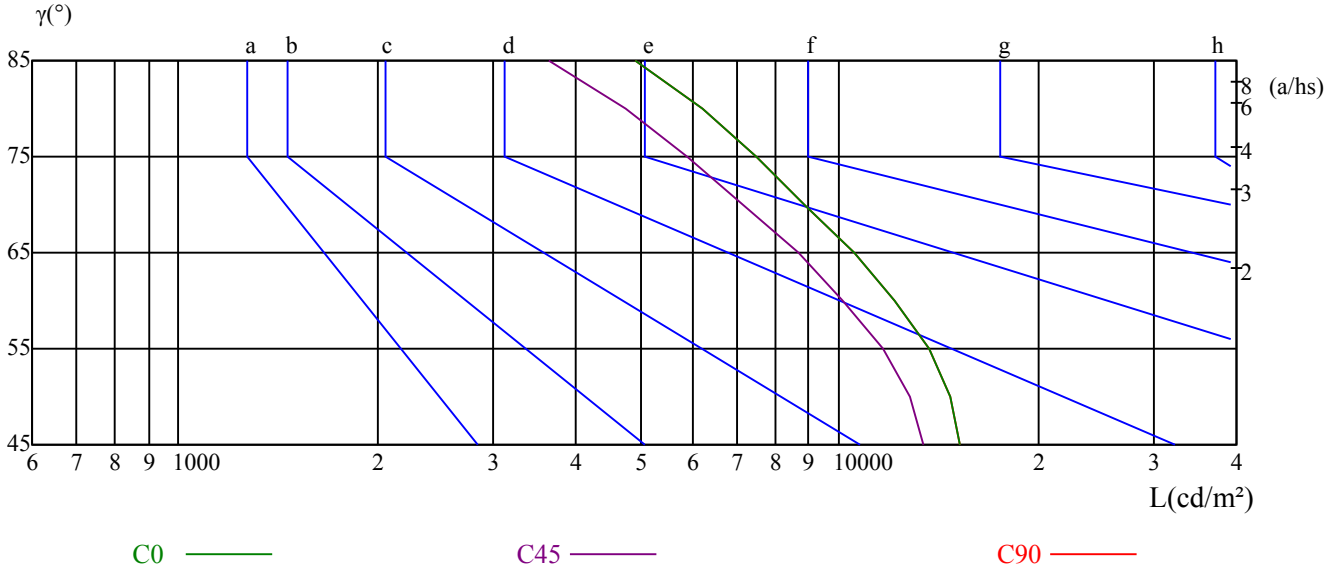
γ	45	50	55	60	65	70	75	80	85
C0	15295	14745	13663	12109	10564	8873	7489	6223	4917
C45	13446	12777	11658	10162	8703	7161	5901	4766	3636
C90	15295	14745	13663	12109	10564	8873	7489	6223	4917

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
21824	21824	21824	21381	21381	21381	32850	32850	32850

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

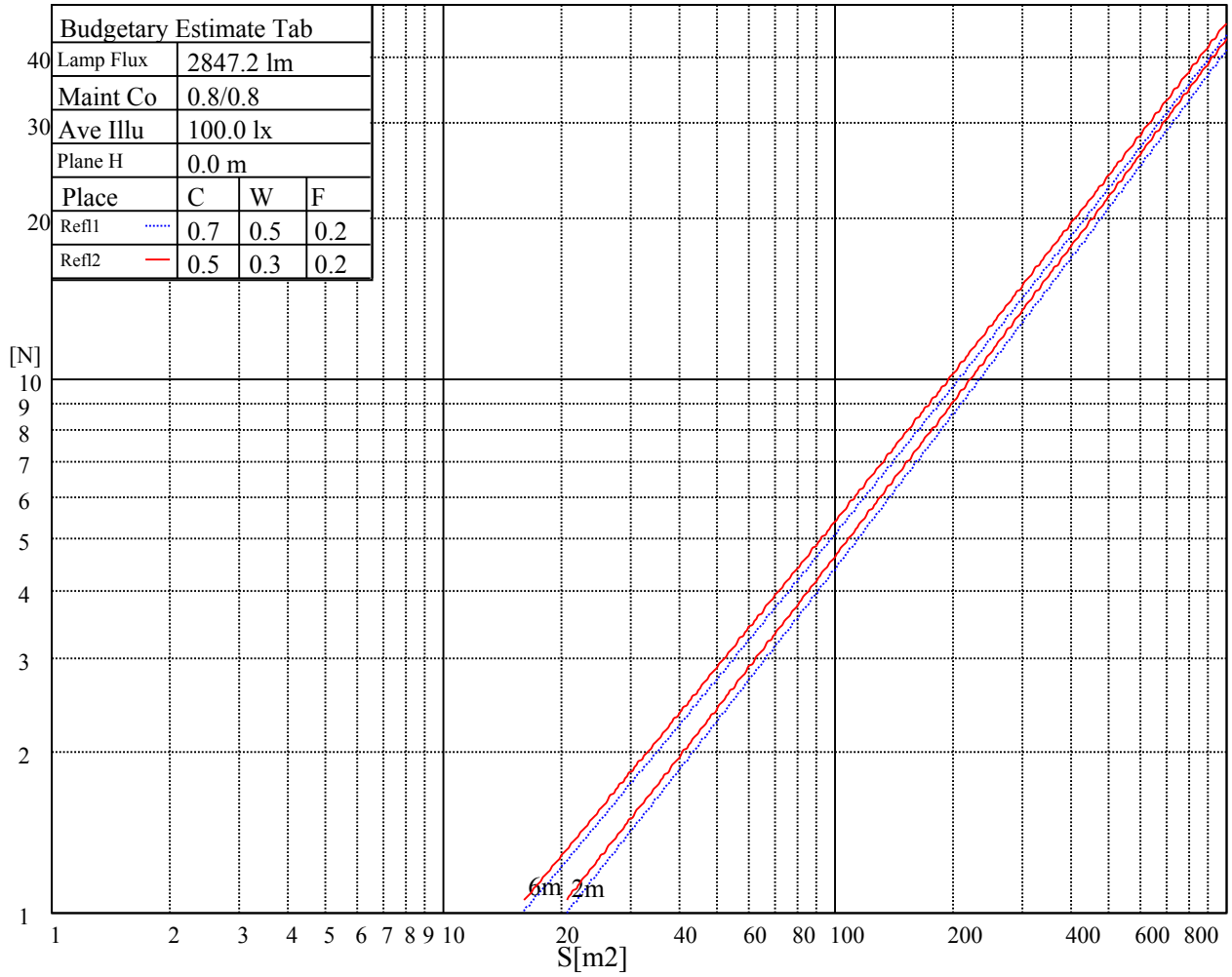


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	14.13	15.12	14.49	15.43	15.75	14.12	15.11	14.48	15.42	15.74
	3H	15.43	16.32	15.82	16.65	17.00	15.43	16.32	15.82	16.66	17.00
	4H	15.95	16.77	16.35	17.13	17.50	15.95	16.77	16.35	17.12	17.49
	6H	16.39	17.14	16.81	17.52	17.92	16.38	17.13	16.80	17.51	17.91
	8H	16.54	17.26	16.96	17.64	18.05	16.53	17.24	16.95	17.63	18.04
	12H	16.66	17.34	17.08	17.73	18.15	16.64	17.32	17.07	17.72	18.13
4H	2H	14.63	15.45	15.03	15.80	16.17	14.62	15.44	15.02	15.80	16.16
	3H	16.05	16.74	16.47	17.14	17.55	16.05	16.74	16.48	17.14	17.55
	4H	16.73	17.33	17.17	17.75	18.20	16.72	17.32	17.16	17.74	18.19
	6H	17.24	17.77	17.71	18.22	18.68	17.23	17.76	17.70	18.21	18.66
	8H	17.47	17.96	17.95	18.42	18.89	17.45	17.94	17.94	18.40	18.88
	12H	17.66	18.11	18.15	18.56	19.08	17.64	18.10	18.13	18.55	19.07
8H	4H	16.89	17.38	17.38	17.84	18.32	16.89	17.38	17.37	17.83	18.31
	6H	17.54	17.94	18.05	18.42	18.93	17.53	17.93	18.03	18.41	18.92
	8H	17.90	18.24	18.44	18.76	19.26	17.89	18.23	18.42	18.75	19.25
	12H	18.19	18.45	18.73	18.97	19.49	18.18	18.44	18.72	18.95	19.48
12H	4H	16.90	17.35	17.39	17.80	18.32	16.89	17.34	17.38	17.79	18.31
	6H	17.63	17.97	18.16	18.49	18.99	17.62	17.96	18.15	18.48	18.98
	8H	18.00	18.26	18.54	18.78	19.30	17.99	18.25	18.53	18.76	19.29

Variation with the observer position at spacings:		
S = 1.0H	0.3/-0.7	0.3/-0.7
S = 1.5H	0.7/-0.7	0.7/-0.7
S = 2.0H	1.5/-0.9	1.5/-0.9
Standard tables:	BK3	BK3
Uncorrected UGR	-0.5	-0.5

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

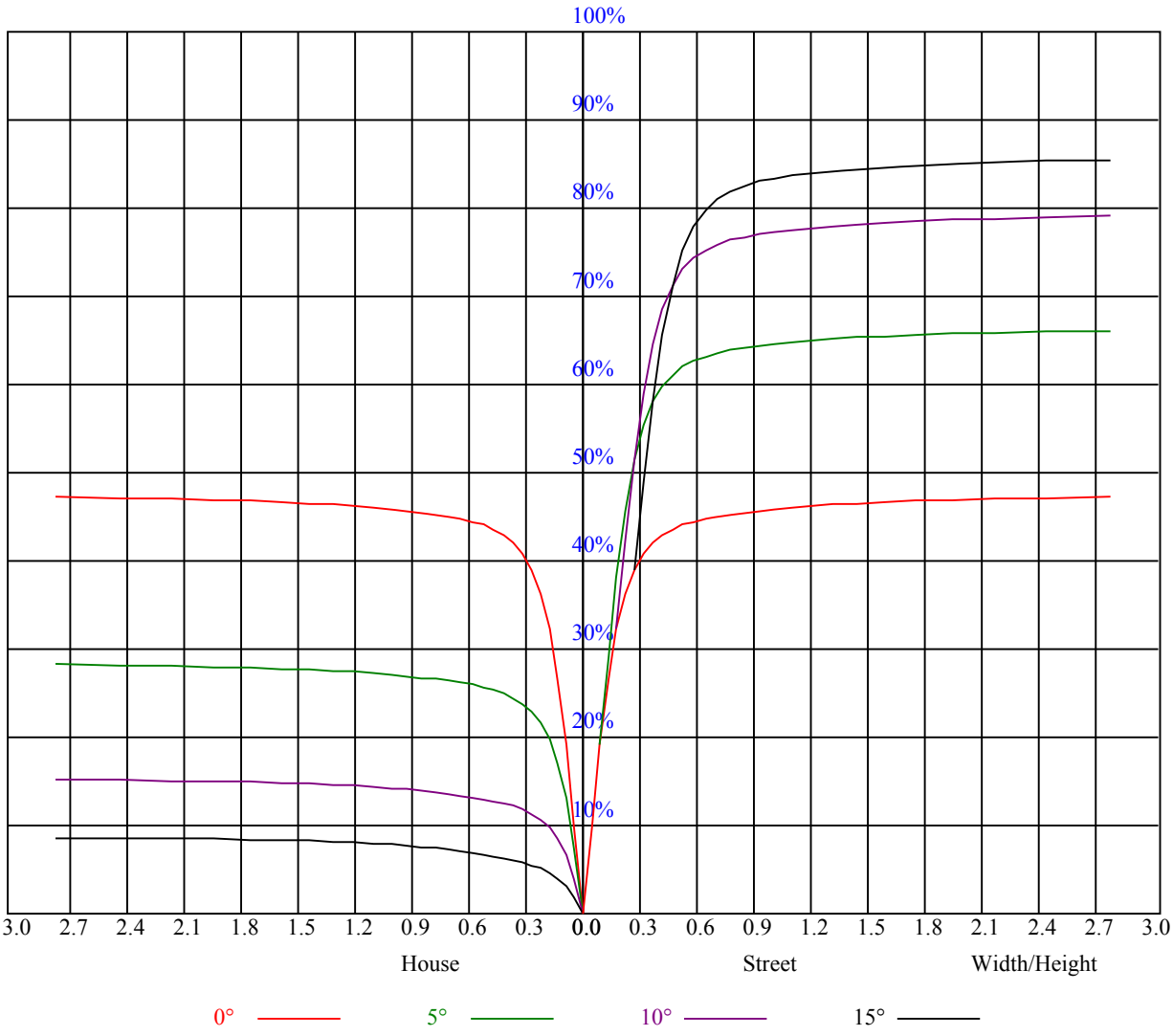


Equipment: GMS 1800 Date: 2024/7/18 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.18

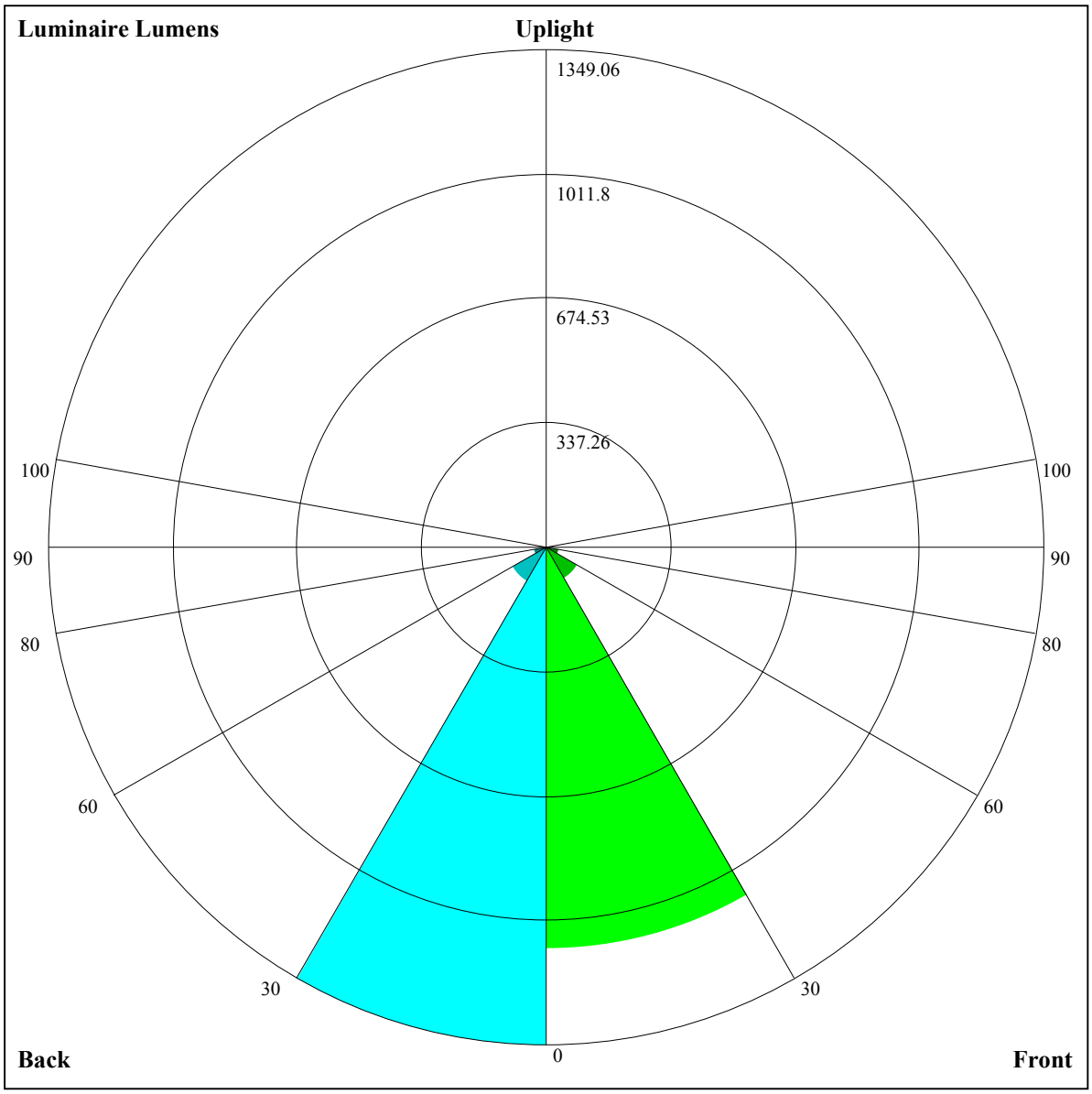
Utilization factor table for indoor luminaire

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.07	1.05	1.03	1.05	1.03	1.02	1.01	1.00	0.99	0.98	0.97	0.96	0.94	0.94	0.93	0.91
2	1.02	0.99	0.96	1.00	0.97	0.95	0.97	0.95	0.93	0.94	0.93	0.91	0.92	0.90	0.89	0.88
3	0.97	0.94	0.91	0.96	0.93	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.88	0.86	0.85
4	0.93	0.90	0.87	0.92	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.82
5	0.90	0.86	0.83	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.84	0.81	0.85	0.83	0.81	0.80
6	0.87	0.83	0.80	0.87	0.83	0.80	0.85	0.82	0.80	0.84	0.81	0.79	0.83	0.81	0.79	0.78
7	0.85	0.81	0.78	0.84	0.80	0.78	0.83	0.80	0.77	0.82	0.79	0.77	0.81	0.79	0.77	0.76
8	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.80	0.77	0.75	0.74
9	0.80	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
10	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71

Coefficient Utilization Curve



Equipment: GMS 1800	Date: 2024/7/18	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.18



Luminaire Lumens:
FL=1087.04,FM=98.11,FH=33.67,FVH=7.12
BL=1349.06,BM=107.86,BH=35.77,BVH=7.65
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	18828.91	18217.05	17321.11	16102.85	14660.61	10571.28	10226.54	9549.12	7920.57
45.0	19282.34	18965.48	18320.85	17419.45	16162.95	14682.47	13076.33	11371.87	9683.79
90.0	18867.15	18238.90	17337.50	16113.78	14644.23	10613.33	10281.17	9599.37	8630.25
135.0	19194.93	19085.67	18916.32	18107.79	17599.73	16534.43	15130.44	13578.93	11901.78
180.0	18828.91	19178.54	19244.10	19091.13	18670.48	18025.84	17299.26	15824.24	14382.00
225.0	19282.34	19369.75	19227.71	19031.04	18517.52	17315.65	16643.69	15250.62	13682.73
270.0	18867.15	19205.86	19282.34	19173.08	18796.13	18298.99	17190.00	15955.35	14769.87
315.0	19194.93	19069.28	18692.33	18047.69	17069.81	15791.46	14278.20	10529.74	10529.74
360.0	18828.91	18217.05	17321.11	16102.85	14660.61	10571.28	10226.54	9549.12	7920.57

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6438.49	5637.59	4490.92	3623.38	2942.67	2405.13	1963.70	1610.77	1030.97
45.0	8066.73	6591.72	5313.37	4269.93	3445.01	2805.83	2805.83	2278.39	1609.69
90.0	6543.37	5751.23	4628.01	3741.92	3051.93	2492.53	2038.54	1667.62	1075.44
135.0	10241.02	8569.33	7056.07	5712.17	4597.71	3718.16	3057.13	2827.69	2827.69
180.0	13098.19	11060.48	9716.57	8121.36	6635.42	5357.07	4308.17	3488.71	2849.54
225.0	9977.40	9977.40	8367.46	6873.89	5566.57	4487.62	3646.88	2971.63	2439.55
270.0	12835.96	11464.74	9765.74	8132.29	6657.27	5378.92	4319.09	3510.57	2865.93
315.0	8831.30	7232.23	6349.95	4633.48	3729.91	3303.79	2496.92	2215.00	1816.20
360.0	6438.49	5637.59	4490.92	3623.38	2942.67	2405.13	1963.70	1610.77	1030.97

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1030.97	886.04	738.39	617.53	521.93	441.11	373.29	338.30	272.33
45.0	1326.69	1099.46	912.64	762.92	642.22	540.02	456.99	388.18	330.82
90.0	1075.44	933.10	781.83	660.72	561.66	476.16	405.45	366.90	314.12
135.0	1715.70	1475.84	1232.22	996.18	868.93	731.22	620.36	526.36	445.55
180.0	2849.54	1933.09	1726.63	1328.34	1112.55	1001.64	785.85	712.10	602.33
225.0	2173.46	1668.70	1266.60	1058.80	1058.80	887.38	750.19	633.56	537.18
270.0	2865.93	1955.51	1611.34	1334.37	1118.58	944.28	800.08	721.43	613.25
315.0	1503.16	1056.01	1056.01	884.75	747.87	629.90	531.72	452.71	385.92
360.0	1030.97	886.04	738.39	617.53	521.93	441.11	373.29	338.30	272.33

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	249.34	216.61	189.51	167.19	149.20	134.62	122.82	112.56	104.26
45.0	283.82	283.82	275.06	196.41	173.94	156.62	140.80	128.07	118.02
90.0	270.37	234.96	205.28	180.80	160.28	143.79	130.29	118.59	108.80
135.0	379.99	325.88	280.01	280.01	271.81	187.13	166.36	155.08	133.54
180.0	512.19	434.05	370.15	317.17	280.52	280.52	200.33	177.03	157.60
225.0	458.22	387.77	334.28	287.74	248.05	216.31	191.31	171.47	156.47
270.0	522.54	444.41	379.99	323.71	285.98	285.98	204.50	180.18	160.33
315.0	330.67	294.69	254.29	217.13	195.33	172.96	154.10	139.00	126.11
360.0	249.34	216.61	189.51	167.19	149.20	134.62	122.82	112.56	104.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	97.41	91.33	86.43	82.46	78.90	76.07	73.49	72.41	70.45
45.0	109.36	102.41	96.02	90.96	86.48	82.77	79.32	76.64	73.91
90.0	100.91	94.31	88.59	83.96	80.30	77.10	74.63	72.77	71.53
135.0	126.06	114.93	105.91	98.33	92.15	87.41	83.29	80.09	77.46
180.0	142.30	129.21	118.33	109.57	104.83	97.87	90.29	87.51	83.59
225.0	139.87	127.66	119.83	110.45	102.25	96.58	90.45	86.43	82.20
270.0	143.95	129.93	118.69	109.47	104.47	94.88	91.48	86.69	81.38
315.0	115.29	106.07	98.64	92.72	87.87	84.01	80.50	77.67	75.61
360.0	97.41	91.33	86.43	82.46	78.90	76.07	73.49	72.41	70.45

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	69.99	70.14	71.07	71.28	72.00	71.48	70.97	68.85	66.07
45.0	71.64	69.78	68.39	67.05	65.92	65.20	64.32	63.34	61.18
90.0	71.07	71.02	71.28	71.53	71.38	70.86	69.52	67.62	64.89
135.0	75.25	73.39	72.00	71.02	70.35	69.94	69.63	69.06	68.03
180.0	78.85	77.36	75.25	73.03	71.28	69.63	68.39	66.95	65.50
225.0	78.39	75.40	72.36	70.09	67.98	66.54	65.04	64.11	63.80
270.0	79.73	76.95	74.88	73.29	72.00	70.76	69.63	68.60	67.31
315.0	74.01	73.08	72.87	73.13	73.85	73.91	73.24	71.84	70.56
360.0	69.99	70.14	71.07	71.28	72.00	71.48	70.97	68.85	66.07

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	62.93	59.94	57.26	54.89	53.03	50.87	49.01	46.90	44.94
45.0	59.42	57.72	56.28	54.68	52.83	51.07	49.22	47.47	45.56
90.0	61.74	58.86	56.49	54.32	52.31	50.46	48.50	46.75	44.89
135.0	66.79	65.45	62.82	60.35	58.50	56.33	54.37	52.26	50.35
180.0	64.01	62.57	61.18	59.63	58.29	56.69	55.09	53.39	52.47
225.0	63.19	62.93	61.54	60.04	57.05	56.12	54.01	51.85	49.37
270.0	65.71	64.06	62.31	60.45	58.60	56.79	54.94	53.81	51.33
315.0	66.54	64.16	60.61	57.83	55.51	53.55	51.64	49.68	47.93
360.0	62.93	59.94	57.26	54.89	53.03	50.87	49.01	46.90	44.94

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	43.03	41.02	38.91	37.00	35.51	33.04	31.28	29.94	28.45
45.0	43.70	41.75	39.89	37.88	35.87	33.91	31.85	30.51	28.40
90.0	43.09	41.13	39.27	37.21	35.66	33.65	31.03	29.89	28.50
135.0	48.29	46.33	44.27	42.26	40.30	38.29	36.13	33.96	31.59
180.0	50.04	49.06	47.21	44.58	43.34	41.33	39.43	37.31	35.20
225.0	47.05	45.20	43.34	41.44	39.58	37.83	36.03	34.12	32.26
270.0	49.42	48.34	45.77	44.68	42.78	41.02	39.12	37.16	35.20
315.0	46.13	44.37	42.52	40.66	38.81	36.90	34.94	32.68	31.49
360.0	43.03	41.02	38.91	37.00	35.51	33.04	31.28	29.94	28.45

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	27.42	26.08	24.79	23.35	21.96	20.56	19.22	17.83	16.65
45.0	27.52	26.28	25.00	23.81	22.52	21.34	20.15	18.97	17.78
90.0	27.21	25.82	24.48	23.09	21.70	20.41	19.07	17.78	16.54
135.0	30.05	28.50	27.21	25.77	24.43	22.88	21.59	20.82	19.48
180.0	32.98	30.87	29.33	27.88	26.59	25.20	23.81	22.37	21.08
225.0	30.46	29.02	27.52	26.13	24.84	23.40	22.63	20.77	20.00
270.0	33.09	31.08	29.63	28.35	27.06	25.72	24.27	22.93	21.59
315.0	29.63	28.86	27.62	26.34	24.89	23.60	22.21	20.92	19.53
360.0	27.42	26.08	24.79	23.35	21.96	20.56	19.22	17.83	16.65

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	15.56	14.59	13.55	12.37	11.49	10.67	9.84	9.17	8.76
45.0	16.60	15.62	14.28	13.35	12.42	11.44	10.51	9.74	9.38
90.0	15.51	14.53	13.40	12.32	11.39	10.67	9.69	9.12	8.66
135.0	18.35	16.65	15.67	14.53	13.50	12.37	11.39	10.57	9.53
180.0	19.74	18.55	17.06	16.08	14.74	13.76	12.68	11.60	10.57
225.0	18.35	17.32	16.39	15.15	14.22	12.99	12.16	11.18	10.36
270.0	20.25	19.02	17.42	15.93	14.89	13.55	12.68	11.44	10.57
315.0	18.30	16.65	15.62	14.28	13.25	12.16	11.08	10.10	9.38
360.0	15.56	14.59	13.55	12.37	11.49	10.67	9.84	9.17	8.76

Intensity data(cd)

C/γ(°)	90.0
0.0	8.71
45.0	9.12
90.0	8.61
135.0	9.07
180.0	9.74
225.0	9.84
270.0	9.74
315.0	9.07
360.0	8.71