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

Nata

Client:
LumCAT: 2-2456-L
Luminaire: 92.70.411.00
Report No: 2024902-B007
Ballast type: AC

Test No: 2024902-C007	Voltage(V): 36.650
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.898
Lamp flux(lm): 4053.0	Power (W): 32.870
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3640.81, Efficiency(%): 89.83% , Luminous Efficacy(lm/W): 110.76
Central intensity(cd): 7658.567, Maximum intensity(cd): 7658.567
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.6
[C90/270]Total=38.6
Field angle(10%Imax): [C0/180]Total=66.8
[C90/270]Total=66.8
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.152%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7658.567	0.000	0	0.00%	0.00%
1.0	7645.952	7.323	7.323	0.18%	0.20%
2.0	7596.589	21.878	29.2	0.54%	0.80%
3.0	7537.581	36.196	65.396	0.89%	1.80%
4.0	7449.144	50.165	115.562	1.24%	3.17%
5.0	7342.797	63.634	179.196	1.57%	4.92%
6.0	7195.905	76.405	255.601	1.89%	7.02%
7.0	7029.880	88.299	343.9	2.18%	9.45%
8.0	6840.090	99.265	443.165	2.45%	12.17%
9.0	6630.326	109.170	552.335	2.69%	15.17%
10.0	6396.107	117.884	670.219	2.91%	18.41%
11.0	6144.615	125.308	795.527	3.09%	21.85%
12.0	5885.252	131.504	927.031	3.24%	25.46%
13.0	5616.001	136.491	1063.522	3.37%	29.21%
14.0	5341.887	140.260	1203.782	3.46%	33.06%
15.0	5056.473	142.753	1346.535	3.52%	36.98%
16.0	4769.817	143.983	1490.518	3.55%	40.94%
17.0	4478.351	144.019	1634.536	3.55%	44.89%
18.0	4200.539	143.096	1777.633	3.53%	48.83%
19.0	3916.800	141.225	1918.858	3.48%	52.70%
20.0	3627.351	138.079	2056.937	3.41%	56.50%
21.0	3363.126	134.231	2191.168	3.31%	60.18%
22.0	3112.745	130.135	2321.303	3.21%	63.76%
23.0	2812.994	124.338	2445.641	3.07%	67.17%
24.0	2591.233	118.156	2563.797	2.92%	70.42%
25.0	2358.407	112.544	2676.341	2.78%	73.51%
26.0	2137.572	106.128	2782.469	2.62%	76.42%
27.0	1906.074	98.929	2881.398	2.44%	79.14%
28.0	1672.355	90.598	2971.996	2.24%	81.63%
29.0	1485.173	82.610	3054.606	2.04%	83.90%
30.0	1303.971	75.306	3129.912	1.86%	85.97%
31.0	1089.003	66.593	3196.505	1.64%	87.80%
32.0	966.585	58.890	3255.395	1.45%	89.41%
33.0	815.428	52.499	3307.894	1.30%	90.86%
34.0	683.779	45.370	3353.265	1.12%	92.10%
35.0	564.994	38.782	3392.047	0.96%	93.17%
36.0	463.575	32.750	3424.797	0.81%	94.07%
37.0	373.535	27.302	3452.099	0.67%	94.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	311.827	22.876	3474.975	0.56%	95.45%
39.0	255.073	19.350	3494.325	0.48%	95.98%
40.0	202.326	15.952	3510.277	0.39%	96.41%
41.0	169.783	13.251	3523.528	0.33%	96.78%
42.0	137.681	11.171	3534.699	0.28%	97.09%
43.0	105.434	9.006	3543.704	0.22%	97.33%
44.0	88.916	7.335	3551.04	0.18%	97.53%
45.0	76.702	6.365	3557.405	0.16%	97.71%
46.0	67.517	5.640	3563.045	0.14%	97.86%
47.0	60.506	5.092	3568.136	0.13%	98.00%
48.0	54.718	4.658	3572.794	0.11%	98.13%
49.0	49.888	4.296	3577.09	0.11%	98.25%
50.0	45.756	3.988	3581.078	0.10%	98.36%
51.0	42.135	3.719	3584.796	0.09%	98.46%
52.0	38.916	3.478	3588.274	0.09%	98.56%
53.0	36.156	3.266	3591.54	0.08%	98.65%
54.0	33.647	3.077	3594.617	0.08%	98.73%
55.0	31.321	2.900	3597.517	0.07%	98.81%
56.0	29.363	2.742	3600.259	0.07%	98.89%
57.0	27.608	2.605	3602.864	0.06%	98.96%
58.0	25.920	2.475	3605.339	0.06%	99.03%
59.0	24.461	2.355	3607.694	0.06%	99.09%
60.0	23.285	2.256	3609.95	0.06%	99.15%
61.0	21.991	2.161	3612.111	0.05%	99.21%
62.0	20.854	2.065	3614.175	0.05%	99.27%
63.0	19.809	1.978	3616.153	0.05%	99.32%
64.0	18.752	1.892	3618.045	0.05%	99.37%
65.0	17.819	1.810	3619.855	0.04%	99.42%
66.0	16.833	1.729	3621.584	0.04%	99.47%
67.0	15.894	1.646	3623.229	0.04%	99.52%
68.0	14.987	1.564	3624.794	0.04%	99.56%
69.0	14.080	1.483	3626.276	0.04%	99.60%
70.0	13.160	1.399	3627.675	0.03%	99.64%
71.0	12.214	1.311	3628.987	0.03%	99.68%
72.0	11.327	1.224	3630.211	0.03%	99.71%
73.0	10.460	1.139	3631.35	0.03%	99.74%
74.0	9.678	1.059	3632.409	0.03%	99.77%
75.0	8.896	0.981	3633.39	0.02%	99.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.160	0.905	3634.296	0.02%	99.82%
77.0	7.543	0.837	3635.133	0.02%	99.84%
78.0	6.919	0.774	3635.907	0.02%	99.87%
79.0	6.294	0.710	3636.617	0.02%	99.88%
80.0	5.677	0.645	3637.263	0.02%	99.90%
81.0	5.072	0.581	3637.844	0.01%	99.92%
82.0	4.560	0.522	3638.366	0.01%	99.93%
83.0	3.995	0.465	3638.831	0.01%	99.95%
84.0	3.528	0.410	3639.241	0.01%	99.96%
85.0	3.121	0.363	3639.604	0.01%	99.97%
86.0	2.700	0.318	3639.922	0.01%	99.98%
87.0	2.359	0.277	3640.199	0.01%	99.98%
88.0	1.978	0.238	3640.437	0.01%	99.99%
89.0	1.636	0.198	3640.635	0.00%	100.00%
90.0	1.485	0.171	3640.806	0.00%	100.00%

Zonal flux distribution table

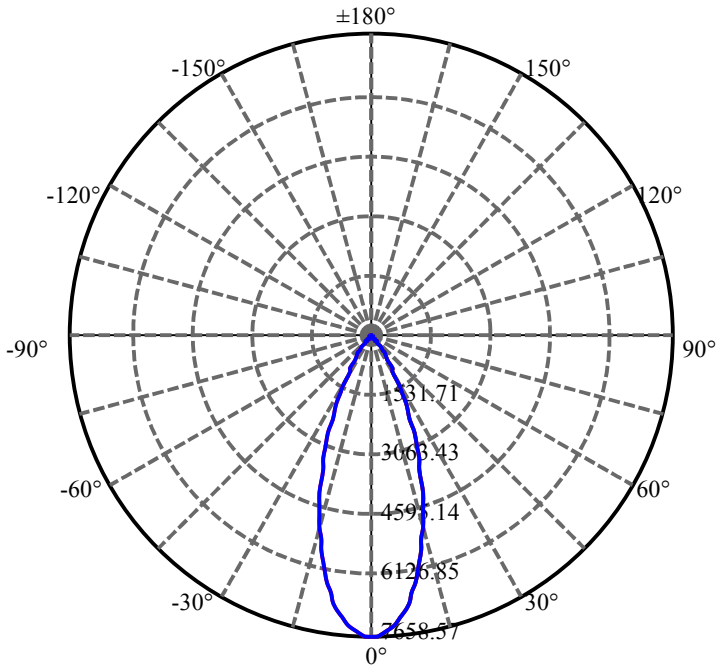
ZONAL LUMEN SUMMARY

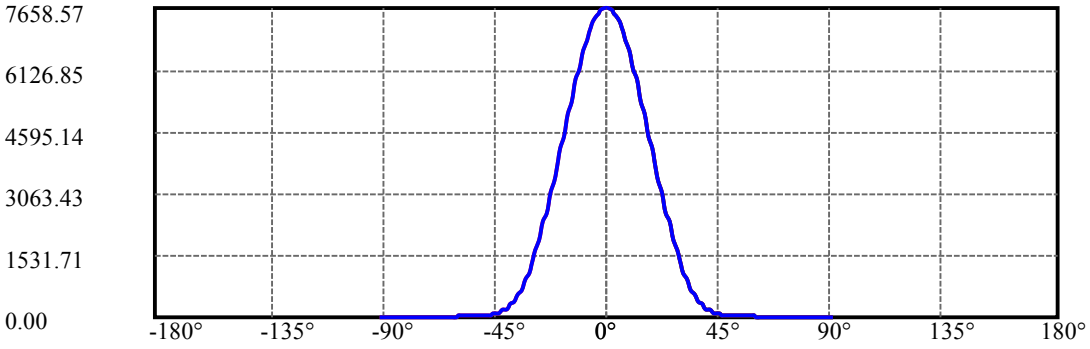
Zone	Lumens	%Lamp	%Fixt
0-30	3129.91	77.22%	85.97%
0-40	3510.28	86.61%	96.41%
0-60	3609.95	89.07%	99.15%
0-90	3640.63	89.83%	100.00%
0-120	3640.63	89.83%	100.00%
0-180	3640.81	89.83%	100.00%
60-90	30.68	0.76%	0.84%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.34	2912.65	71.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	670.22
10-20	1386.72
20-30	1072.98
30-40	380.37
40-50	70.80
50-60	28.87
60-70	17.73
70-80	9.59
80-90	3.37
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):

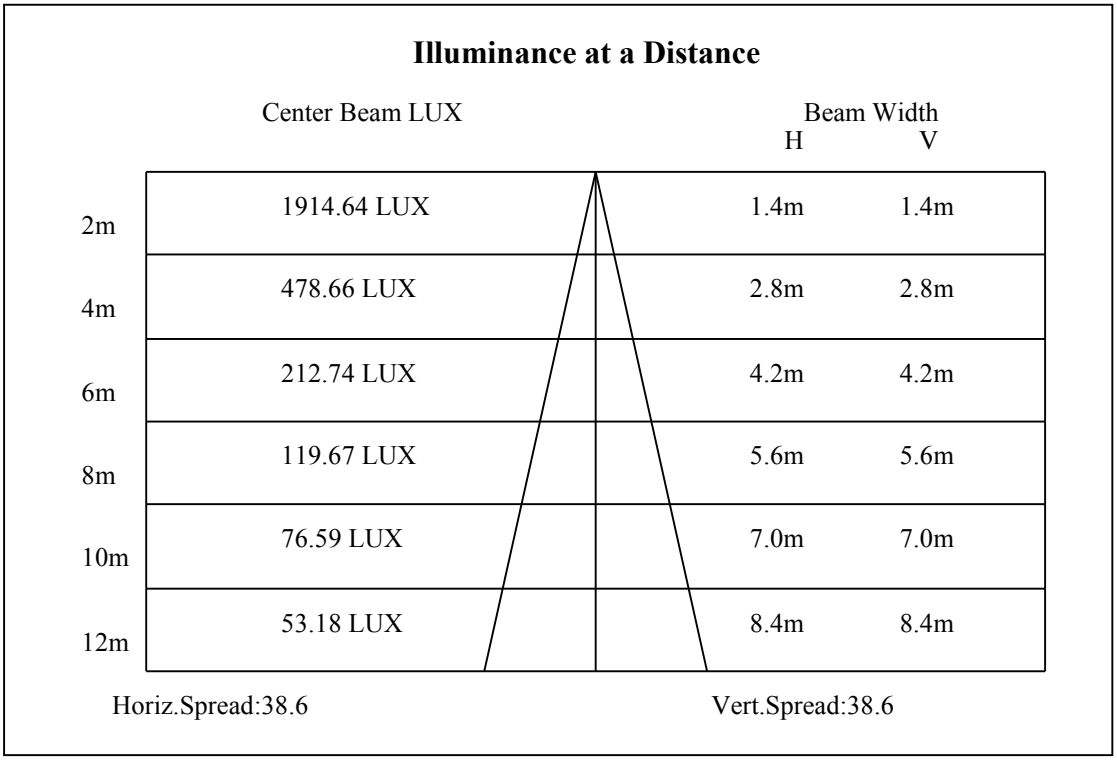
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:33.4 Right:33.4
:C90/270Left:33.4 Right:33.4

Beam Angle(50%Imax):C0/180Left:19.3 Right:19.3
:C90/270Left:19.3 Right:19.3

Lux distance Curve

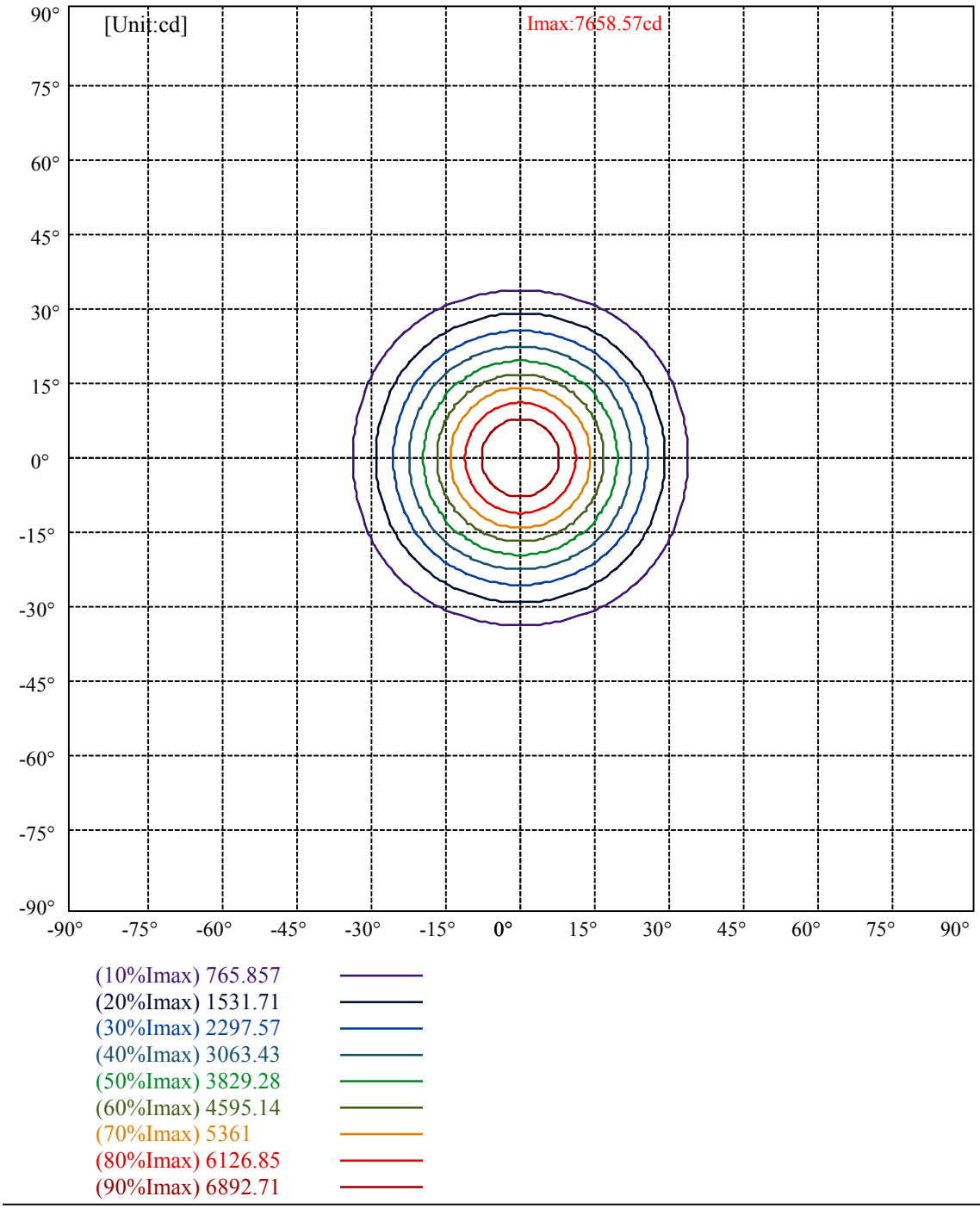


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



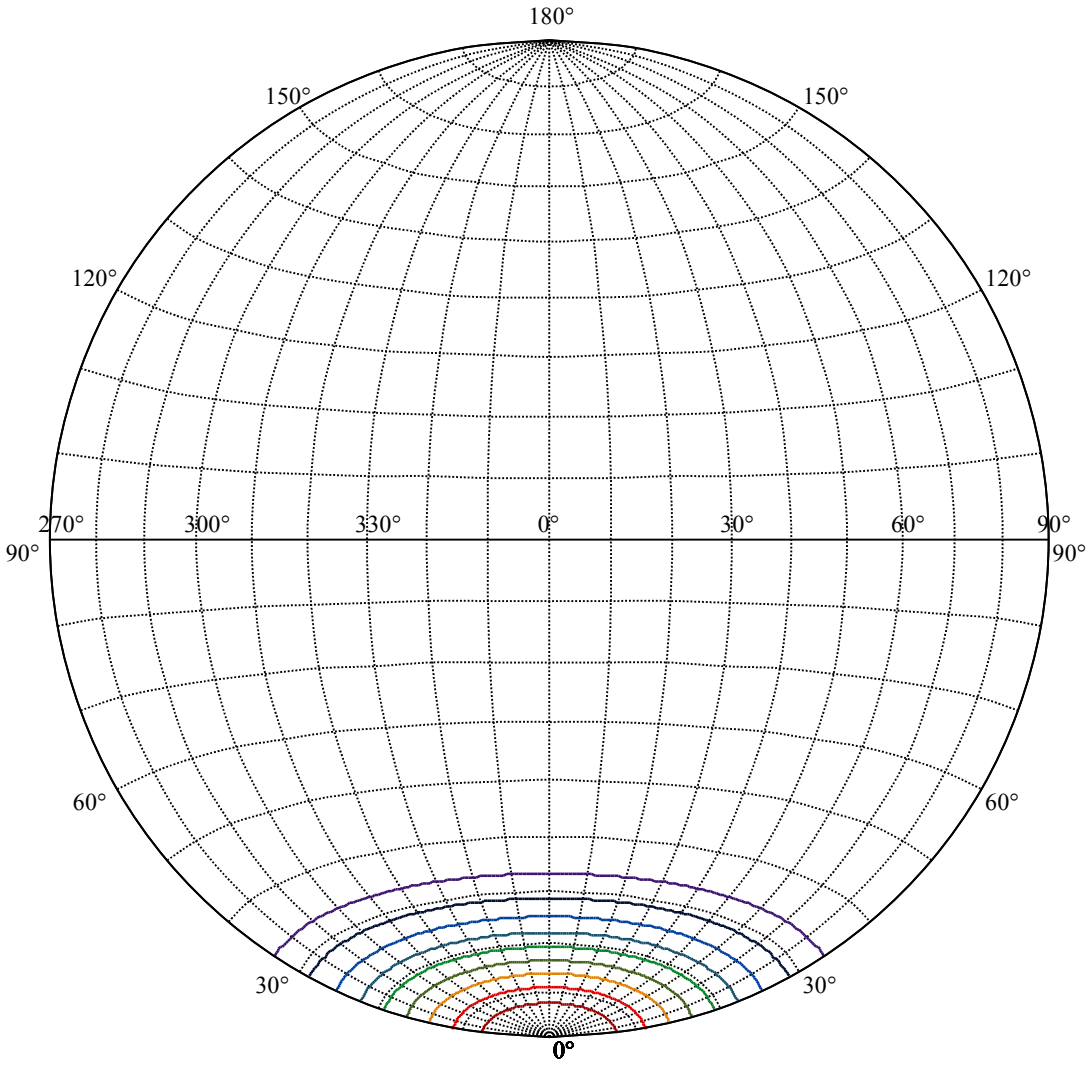
(10%Imax) 765.857
(20%Imax) 1531.71
(30%Imax) 2297.57
(40%Imax) 3063.43
(50%Imax) 3829.28
(60%Imax) 4595.14
(70%Imax) 5361
(80%Imax) 6126.85
(90%Imax) 6892.71

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:7658.57

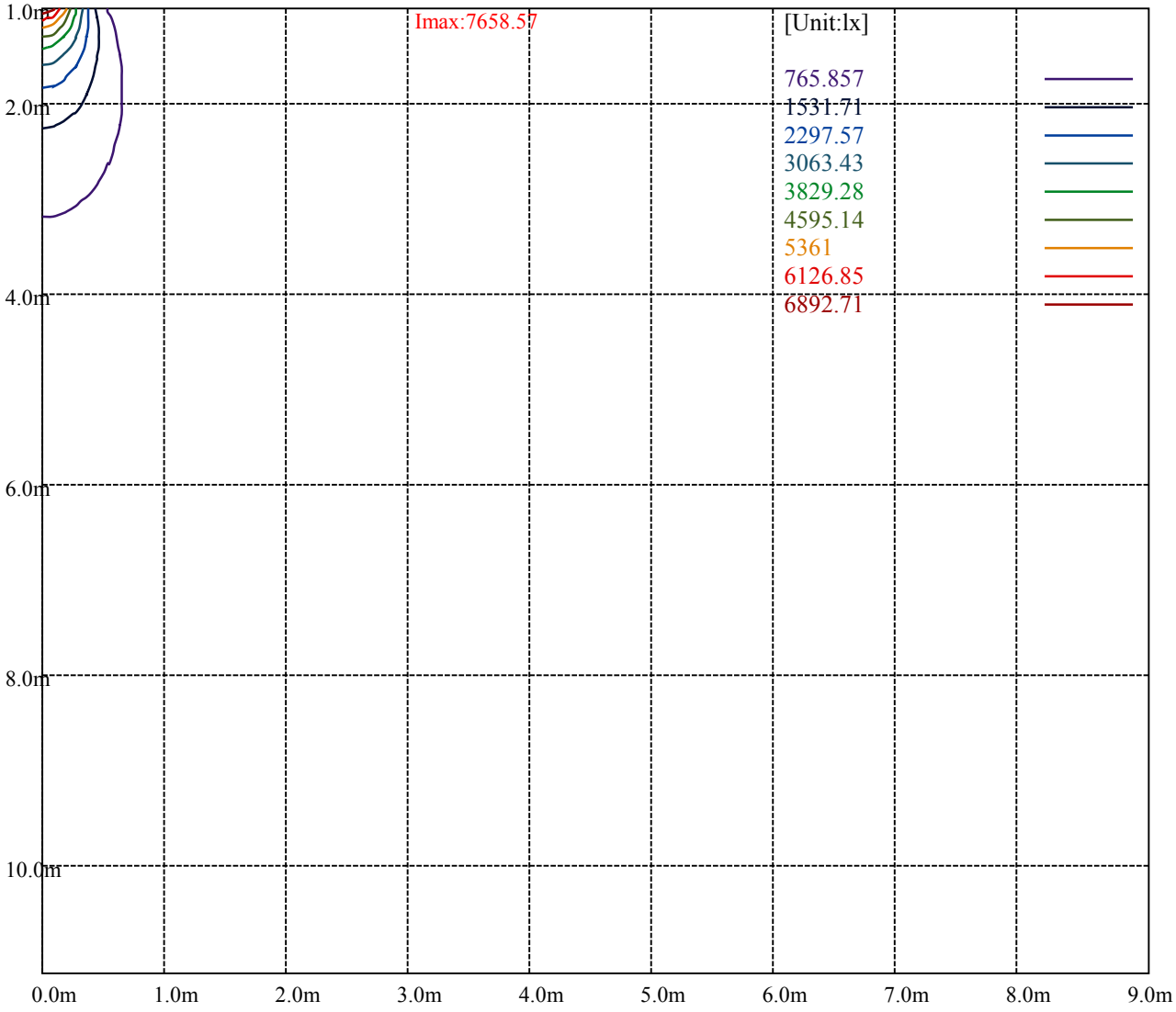
(10%Imax) 765.857
(20%Imax) 1531.71
(30%Imax) 2297.57
(40%Imax) 3063.43
(50%Imax) 3829.28
(60%Imax) 4595.14
(70%Imax) 5361
(80%Imax) 6126.85
(90%Imax) 6892.71

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2456-L

Luminance Limitting Curve(no luminous side)

Luminance Table

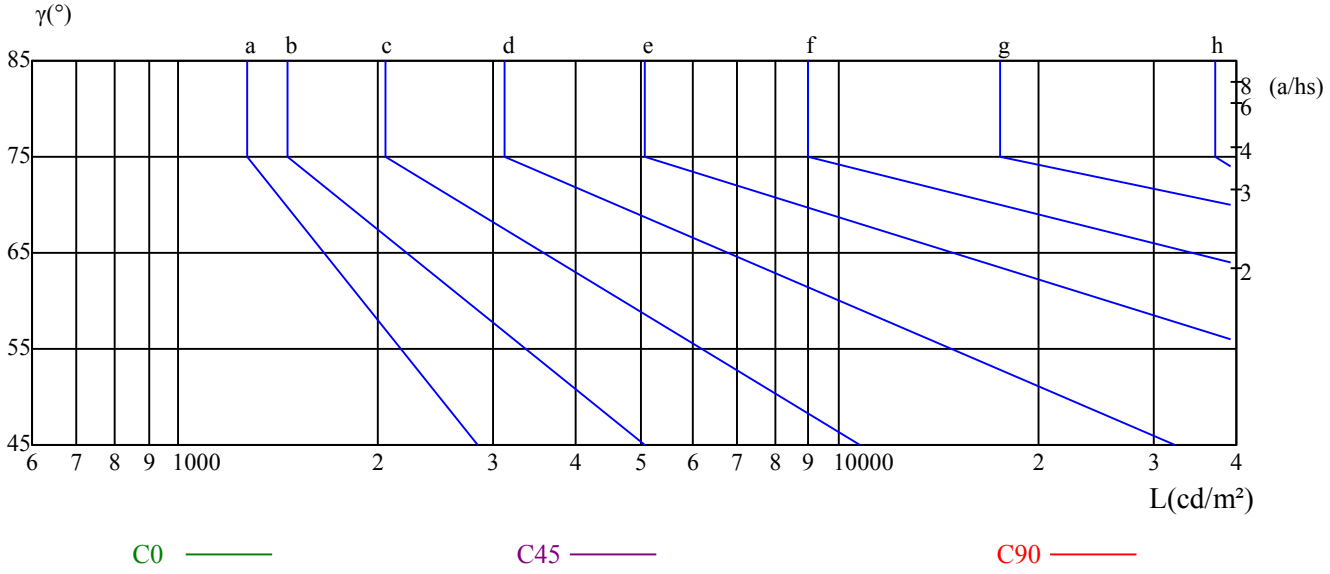
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

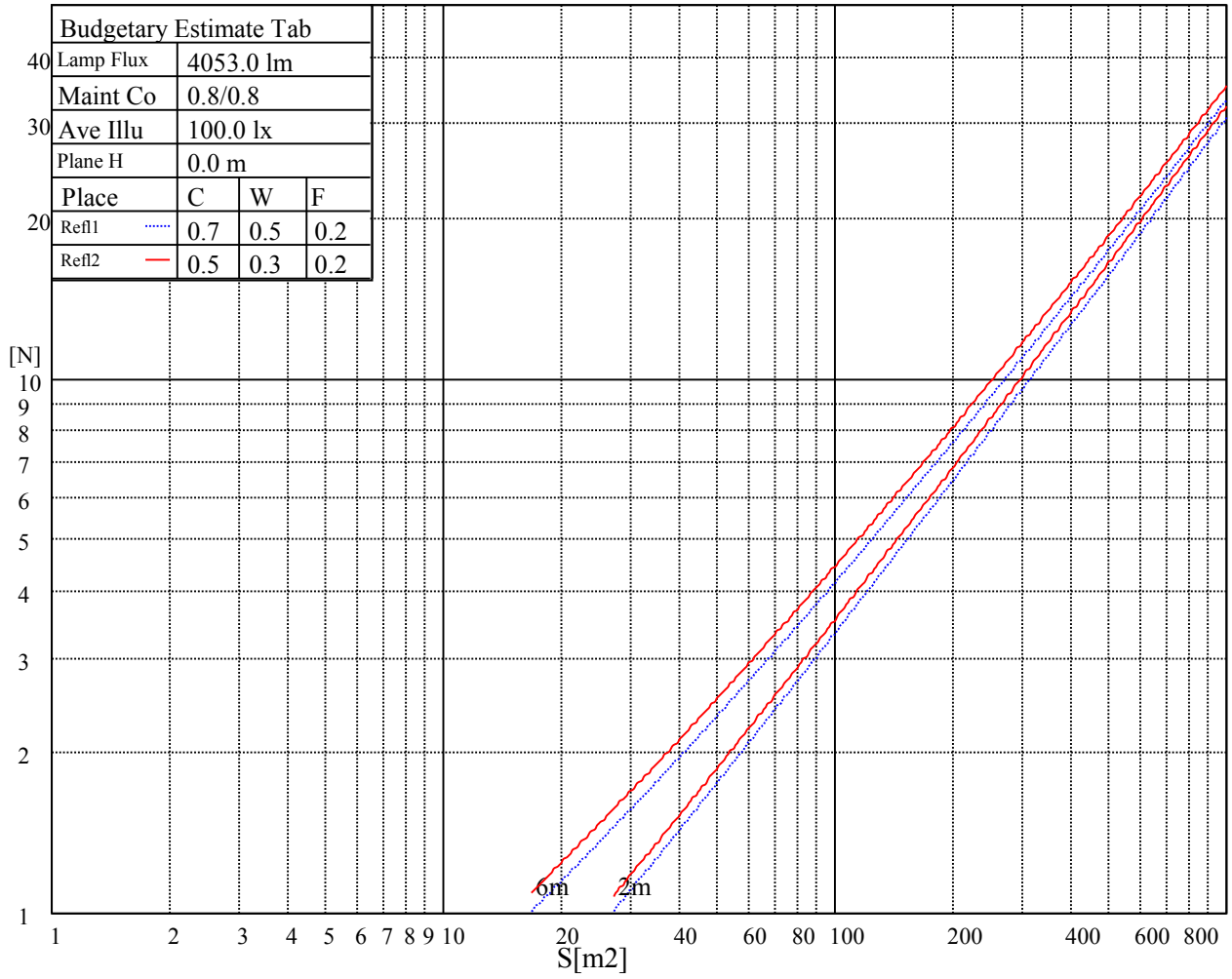
Date: 2024/9/2
Humidity(%): 60.0%

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

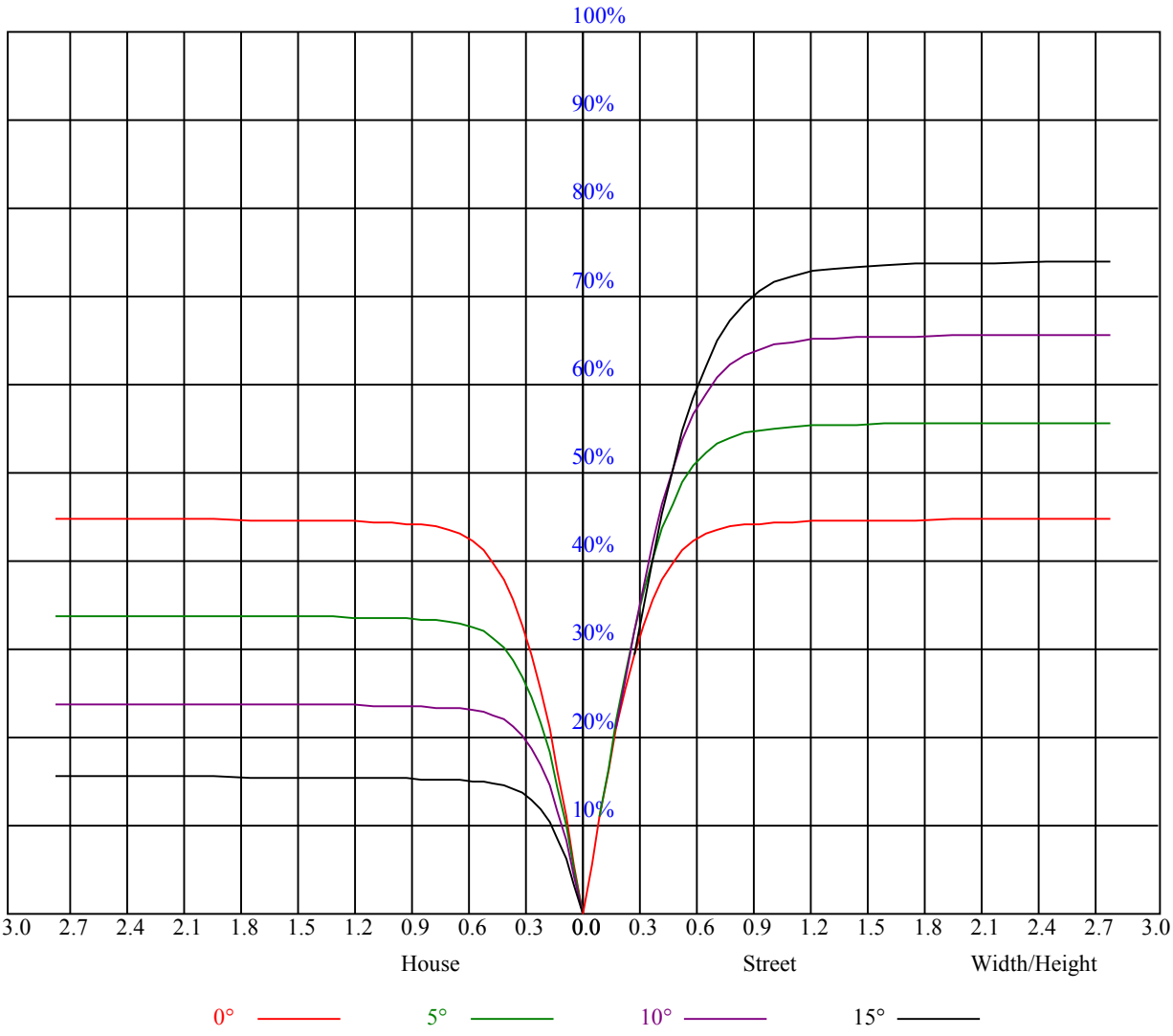
Date: 2024/9/2
Humidity(%): 60.0%

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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.00	0.98	0.96	0.98	0.97	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.88	0.85	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.78	0.76
4	0.84	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.74	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve

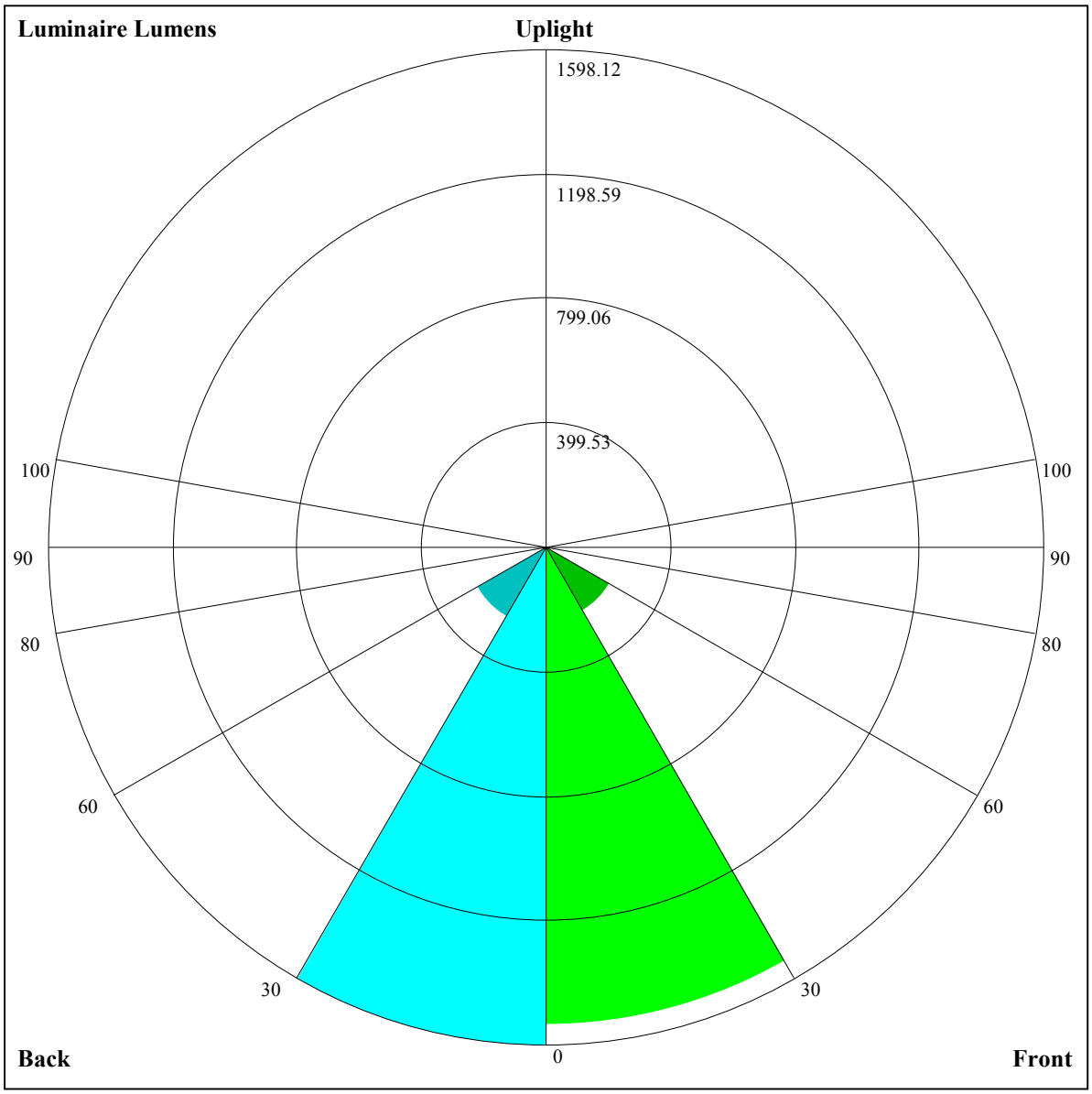


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=1531.96,FM=231.75,FH=13.27,FVH=1.73

BL=1598.12,BM=259.6,BH=14.02,BVH=1.85

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	7641.80	7605.58	7533.15	7441.75	7306.35	7161.54	6992.13	6785.98	6579.25
45.0	7685.22	7638.44	7584.40	7507.50	7390.50	7264.03	7091.84	6903.56	6681.22
90.0	7642.32	7571.00	7410.58	7329.21	7188.82	7011.63	6789.34	6576.46	6351.97
135.0	7679.12	7643.43	7584.40	7513.07	7401.12	7298.57	7146.45	6953.13	6740.30
180.0	7641.80	7666.29	7652.94	7607.79	7557.65	7486.32	7355.39	7226.71	7075.12
225.0	7685.22	7686.90	7662.93	7629.50	7562.11	7461.25	7358.17	7201.64	7035.02
270.0	7613.94	7671.86	7690.26	7664.61	7658.51	7623.98	7528.68	7442.32	7284.11
315.0	7679.12	7684.11	7654.05	7607.21	7528.11	7435.07	7305.24	7149.24	6973.73
360.0	7641.80	7605.58	7533.15	7441.75	7306.35	7161.54	6992.13	6785.98	6579.25

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6353.07	6093.99	5812.62	5536.83	5258.25	4976.88	4677.69	4379.61	4086.52
45.0	6441.11	6211.00	5939.09	5663.29	5381.93	5098.35	4808.05	4516.12	4215.25
90.0	6089.52	5819.88	5552.44	5271.60	4996.91	4716.70	4421.40	4136.09	3846.94
135.0	6522.43	6283.43	6013.20	5761.90	5490.57	5223.14	4949.02	4658.19	4358.96
180.0	6885.69	6663.98	6432.76	6190.39	5915.12	5638.80	5353.49	5064.92	4785.76
225.0	6846.16	6608.79	6377.57	6119.59	5859.98	5562.43	5283.85	5005.26	4708.34
270.0	7145.92	6969.26	6754.75	6515.17	6274.49	6020.46	5736.83	5464.92	5183.03
315.0	6758.70	6518.54	6274.49	6023.24	5750.76	5498.35	5221.45	4933.41	4642.00
360.0	6353.07	6093.99	5812.62	5536.83	5258.25	4976.88	4677.69	4379.61	4086.52

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3790.12	3493.72	3207.89	3037.95	2763.26	2416.72	2275.17	2048.41	1837.80
45.0	3906.02	3604.00	3367.21	3021.24	2810.62	2548.76	2308.60	2075.17	1855.67
90.0	3552.23	3322.11	2985.55	2719.27	2517.53	2235.64	2053.98	1837.80	1625.55
135.0	4056.98	3770.62	3483.68	3205.10	2936.56	2676.90	2428.97	2197.17	2061.82
180.0	4514.96	4228.60	3931.62	3638.59	3354.96	3187.28	2821.19	2669.12	2430.07
225.0	4416.93	4129.42	3833.02	3546.65	3369.47	2985.02	2826.23	2564.89	2325.89
270.0	4897.20	4724.48	4326.68	4150.02	3856.41	3436.85	3270.86	2990.60	2720.37
315.0	4469.86	4061.45	3883.16	3586.18	3293.15	3016.77	2744.87	2484.10	2243.42
360.0	3790.12	3493.72	3207.89	3037.95	2763.26	2416.72	2275.17	2048.41	1837.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1633.91	1433.33	1083.10	1083.10	925.68	775.56	642.16	531.41	433.75
45.0	1651.72	1446.15	1254.46	1079.53	916.27	769.20	641.58	531.25	438.79
90.0	1420.50	1056.19	1056.19	888.04	742.71	613.88	504.07	409.04	326.78
135.0	1843.95	1550.33	1427.76	1230.49	1050.57	886.73	737.40	607.04	497.29
180.0	2116.95	1990.49	1788.23	1585.44	1390.96	1201.53	1023.23	861.13	710.70
225.0	2101.92	1880.74	1682.37	1482.37	1042.84	1042.84	912.12	757.90	625.55
270.0	2470.75	2236.17	2008.31	1792.12	1582.66	1382.60	1196.53	1020.45	861.66
315.0	2008.89	1785.44	1580.97	1290.67	1060.34	1060.34	866.34	752.01	625.44
360.0	1633.91	1433.33	1083.10	1083.10	925.68	775.56	642.16	531.41	433.75

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	365.41	276.85	218.24	180.34	137.19	116.95	97.50	83.68	73.43
45.0	354.64	284.99	284.99	230.59	156.01	127.15	106.54	91.67	80.79
90.0	258.71	202.47	159.58	139.29	112.48	93.72	80.21	70.28	62.86
135.0	398.69	316.74	287.78	229.70	150.91	126.41	99.61	86.94	74.95
180.0	584.76	477.79	382.50	302.29	302.29	229.23	151.96	122.73	101.45
225.0	513.75	418.19	336.24	292.98	232.75	184.49	147.49	120.47	100.39
270.0	714.59	588.12	485.05	395.32	315.11	315.11	287.25	161.47	129.36
315.0	518.06	423.13	340.24	270.07	211.88	165.20	130.88	106.23	88.09
360.0	365.41	276.85	218.24	180.34	137.19	116.95	97.50	83.68	73.43

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	65.44	58.98	53.61	48.88	44.68	41.10	37.95	35.16	32.54
45.0	72.54	65.91	60.34	55.35	51.04	47.41	44.26	41.00	38.27
90.0	56.93	51.88	47.78	43.99	40.79	37.90	35.37	33.06	30.91
135.0	66.18	59.71	54.19	49.67	45.78	42.31	39.47	36.85	34.48
180.0	85.94	74.80	66.60	60.08	54.67	49.99	45.89	42.21	38.95
225.0	85.89	74.95	66.75	60.08	54.51	49.83	45.41	41.79	38.37
270.0	105.55	88.36	76.32	67.23	60.08	54.19	49.20	44.89	41.16
315.0	75.16	65.55	58.45	52.46	47.57	43.31	39.53	36.37	34.59
360.0	65.44	58.98	53.61	48.88	44.68	41.10	37.95	35.16	32.54

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.22	28.23	26.33	25.39	23.18	21.76	20.97	19.24	18.66
45.0	35.80	33.59	31.43	29.33	28.02	26.75	25.02	23.44	22.18
90.0	28.96	27.28	25.70	24.34	23.07	21.87	20.97	19.87	18.71
135.0	32.38	30.54	28.80	27.23	25.70	24.44	23.23	22.02	21.39
180.0	36.16	33.64	31.43	29.44	27.60	26.07	24.55	23.71	21.92
225.0	35.58	33.27	30.85	28.91	27.07	25.39	24.44	23.07	21.87
270.0	38.00	35.11	32.64	30.33	28.38	26.54	25.55	24.13	22.71
315.0	32.06	28.91	27.70	25.91	24.34	22.86	21.55	20.45	19.40
360.0	30.22	28.23	26.33	25.39	23.18	21.76	20.97	19.24	18.66

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.66	16.77	15.87	14.93	14.14	13.35	12.51	11.67	10.99
45.0	21.08	19.97	18.82	17.61	16.40	15.35	14.30	13.19	12.09
90.0	17.92	16.93	16.03	15.03	14.14	13.19	12.09	11.14	10.20
135.0	19.87	18.82	18.24	17.24	16.29	15.24	14.30	13.30	12.25
180.0	21.34	20.18	19.19	18.24	17.24	16.29	15.45	14.51	13.56
225.0	20.76	19.66	18.66	17.71	16.71	15.87	14.98	14.03	12.88
270.0	21.45	20.29	19.13	18.08	17.14	16.29	15.45	14.56	13.67
315.0	18.40	17.40	16.61	15.82	15.09	14.30	13.56	12.88	12.09
360.0	17.66	16.77	15.87	14.93	14.14	13.35	12.51	11.67	10.99

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.20	9.41	8.67	8.04	7.41	6.73	6.15	5.57	4.94
45.0	10.99	9.83	8.99	8.30	7.57	6.94	6.36	5.94	5.31
90.0	9.20	8.46	7.83	7.15	6.52	5.94	5.31	4.78	4.21
135.0	11.25	10.30	9.41	8.62	7.94	7.36	6.73	6.10	5.52
180.0	12.62	11.72	10.78	9.83	8.99	8.30	7.67	6.99	6.36
225.0	12.14	11.35	10.41	9.57	8.83	8.20	7.46	6.73	6.15
270.0	12.93	12.09	11.25	10.35	9.62	8.94	8.30	7.57	6.94
315.0	11.30	10.51	10.09	9.30	8.41	7.94	7.36	6.68	5.99
360.0	10.20	9.41	8.67	8.04	7.41	6.73	6.15	5.57	4.94

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.36	3.99	3.36	3.05	2.73	2.26	2.10	1.68	1.37
45.0	4.52	3.99	3.57	3.10	2.63	2.26	2.00	1.58	1.37
90.0	3.73	3.36	3.00	2.52	2.21	2.00	1.68	1.37	1.31
135.0	4.89	4.36	3.78	3.36	2.94	2.63	2.21	1.89	1.31
180.0	5.78	5.20	4.52	4.10	3.57	3.05	2.68	2.26	1.89
225.0	5.62	5.05	4.36	3.89	3.47	2.94	2.63	2.21	1.84
270.0	6.41	5.78	5.05	4.47	4.05	3.57	3.05	2.68	2.16
315.0	5.26	4.73	4.31	3.73	3.36	2.89	2.52	2.16	1.84
360.0	4.36	3.99	3.36	3.05	2.73	2.26	2.10	1.68	1.37

Intensity data(cd)

C/γ(°)	90.0
0.0	1.37
45.0	1.52
90.0	1.31
135.0	1.21
180.0	1.47
225.0	1.52
270.0	1.89
315.0	1.58
360.0	1.37