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Nata

Client:
LumCAT: 2-2752-L
Luminaire: 92.70.411.00
Report No: 2024902-B012
Ballast type: AC

Test No: 2024902-C012	Voltage(V): 36.550
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A): 0.897
Lamp flux(lm): 4053.0	Power (W): 32.800
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3796.12, Efficiency(%): 93.66% , Luminous Efficacy(lm/W): 115.74
Central intensity(cd): 13773.630, Maximum intensity(cd): 13773.630
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.0
[C90/270]Total=25.0
Field angle(10%Imax): [C0/180]Total=56.6
[C90/270]Total=56.6
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
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(%): 93.66%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.287%

Equipment: GMS 1800	Date: 2024/9/2	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13773.635	0.000	0	0.00%	0.00%
1.0	13701.901	13.147	13.147	0.32%	0.35%
2.0	13495.054	39.036	52.182	0.96%	1.37%
3.0	13155.881	63.740	115.922	1.57%	3.05%
4.0	12640.887	86.350	202.272	2.13%	5.33%
5.0	12104.237	106.452	308.725	2.63%	8.13%
6.0	11560.793	124.366	433.091	3.07%	11.41%
7.0	10809.879	138.854	571.945	3.43%	15.07%
8.0	10212.256	150.451	722.397	3.71%	19.03%
9.0	9426.303	159.160	881.556	3.93%	23.22%
10.0	8652.615	163.608	1045.164	4.04%	27.53%
11.0	7956.786	165.962	1211.126	4.09%	31.90%
12.0	7198.697	165.671	1376.797	4.09%	36.27%
13.0	6506.423	162.645	1539.442	4.01%	40.55%
14.0	5816.034	157.726	1697.169	3.89%	44.71%
15.0	5141.723	150.433	1847.602	3.71%	48.67%
16.0	4594.804	142.667	1990.269	3.52%	52.43%
17.0	4076.905	135.042	2125.311	3.33%	55.99%
18.0	3639.684	127.230	2252.541	3.14%	59.34%
19.0	3236.503	119.632	2372.172	2.95%	62.49%
20.0	2970.392	113.603	2485.776	2.80%	65.48%
21.0	2662.593	108.165	2593.94	2.67%	68.33%
22.0	2409.610	101.928	2695.868	2.51%	71.02%
23.0	2162.402	95.933	2791.802	2.37%	73.54%
24.0	2009.103	91.204	2883.006	2.25%	75.95%
25.0	1815.463	86.962	2969.968	2.15%	78.24%
26.0	1688.853	82.720	3052.688	2.04%	80.42%
27.0	1532.578	78.813	3131.501	1.94%	82.49%
28.0	1405.883	74.396	3205.896	1.84%	84.45%
29.0	1299.562	70.782	3276.678	1.75%	86.32%
30.0	1146.697	66.048	3342.727	1.63%	88.06%
31.0	1007.984	59.962	3402.688	1.48%	89.64%
32.0	901.322	54.699	3457.388	1.35%	91.08%
33.0	768.510	49.194	3506.582	1.21%	92.37%
34.0	644.167	42.752	3549.333	1.05%	93.50%
35.0	527.550	36.389	3585.723	0.90%	94.46%
36.0	420.553	30.188	3615.91	0.74%	95.25%
37.0	339.514	24.789	3640.7	0.61%	95.91%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	248.187	19.617	3660.316	0.48%	96.42%
39.0	188.384	14.901	3675.218	0.37%	96.82%
40.0	135.992	11.313	3686.531	0.28%	97.11%
41.0	116.557	8.993	3695.524	0.22%	97.35%
42.0	84.770	7.315	3702.838	0.18%	97.54%
43.0	73.857	5.876	3708.714	0.14%	97.70%
44.0	66.091	5.282	3713.996	0.13%	97.84%
45.0	59.934	4.843	3718.84	0.12%	97.96%
46.0	55.086	4.498	3723.338	0.11%	98.08%
47.0	50.867	4.214	3727.552	0.10%	98.19%
48.0	46.997	3.956	3731.508	0.10%	98.30%
49.0	44.100	3.741	3735.249	0.09%	98.40%
50.0	41.505	3.569	3738.818	0.09%	98.49%
51.0	39.402	3.423	3742.241	0.08%	98.58%
52.0	37.845	3.315	3745.556	0.08%	98.67%
53.0	36.478	3.233	3748.789	0.08%	98.75%
54.0	35.237	3.161	3751.95	0.08%	98.84%
55.0	33.982	3.090	3755.04	0.08%	98.92%
56.0	32.608	3.009	3758.049	0.07%	99.00%
57.0	31.268	2.921	3760.969	0.07%	99.07%
58.0	29.724	2.820	3763.79	0.07%	99.15%
59.0	28.147	2.706	3766.495	0.07%	99.22%
60.0	26.288	2.572	3769.067	0.06%	99.29%
61.0	24.409	2.419	3771.486	0.06%	99.35%
62.0	22.510	2.261	3773.747	0.06%	99.41%
63.0	20.690	2.101	3775.848	0.05%	99.47%
64.0	19.054	1.950	3777.799	0.05%	99.52%
65.0	17.181	1.793	3779.592	0.04%	99.56%
66.0	15.552	1.633	3781.225	0.04%	99.61%
67.0	14.343	1.503	3782.728	0.04%	99.65%
68.0	12.970	1.384	3784.112	0.03%	99.68%
69.0	11.735	1.260	3785.372	0.03%	99.72%
70.0	10.585	1.146	3786.518	0.03%	99.75%
71.0	9.520	1.039	3787.557	0.03%	99.77%
72.0	8.607	0.943	3788.5	0.02%	99.80%
73.0	7.838	0.860	3789.36	0.02%	99.82%
74.0	7.089	0.785	3790.145	0.02%	99.84%
75.0	6.465	0.716	3790.861	0.02%	99.86%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.887	0.656	3791.517	0.02%	99.88%
77.0	5.401	0.602	3792.119	0.01%	99.89%
78.0	4.921	0.553	3792.671	0.01%	99.91%
79.0	4.442	0.503	3793.174	0.01%	99.92%
80.0	4.021	0.456	3793.63	0.01%	99.93%
81.0	3.614	0.413	3794.043	0.01%	99.95%
82.0	3.213	0.370	3794.413	0.01%	99.95%
83.0	2.838	0.329	3794.742	0.01%	99.96%
84.0	2.490	0.290	3795.033	0.01%	99.97%
85.0	2.175	0.255	3795.287	0.01%	99.98%
86.0	1.879	0.222	3795.509	0.01%	99.98%
87.0	1.590	0.190	3795.699	0.00%	99.99%
88.0	1.373	0.162	3795.861	0.00%	99.99%
89.0	1.183	0.140	3796.001	0.00%	100.00%
90.0	1.038	0.122	3796.123	0.00%	100.00%

Zonal flux distribution table

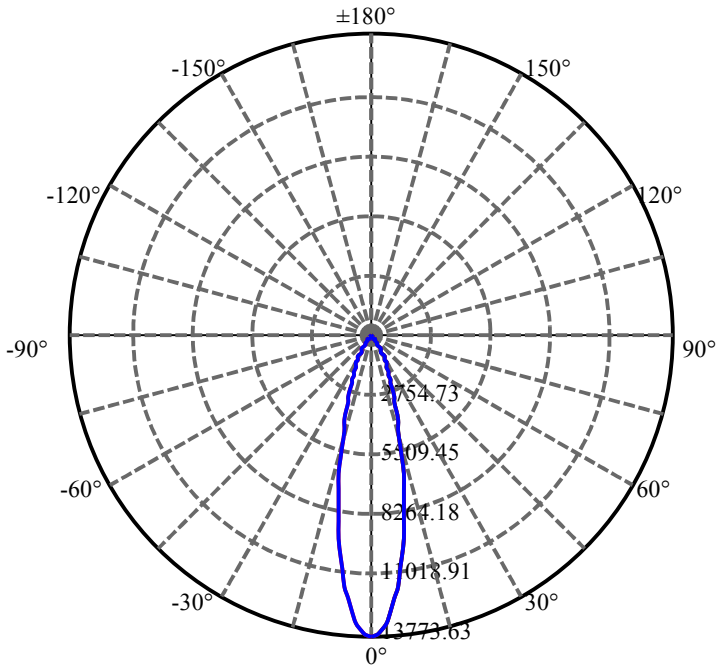
ZONAL LUMEN SUMMARY

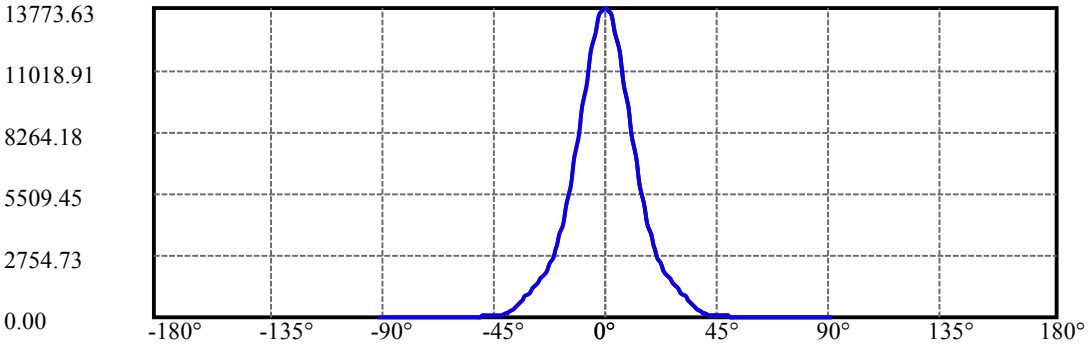
Zone	Lumens	%Lamp	%Fixt
0-30	3342.73	82.48%	88.06%
0-40	3686.53	90.96%	97.11%
0-60	3769.07	92.99%	99.29%
0-90	3796.00	93.66%	100.00%
0-120	3796.00	93.66%	100.00%
0-180	3796.12	93.66%	100.00%
60-90	26.93	0.66%	0.71%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.81	3036.90	74.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	1045.16
10-20	1440.61
20-30	856.95
30-40	343.80
40-50	52.29
50-60	30.25
60-70	17.45
70-80	7.11
80-90	2.37
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):

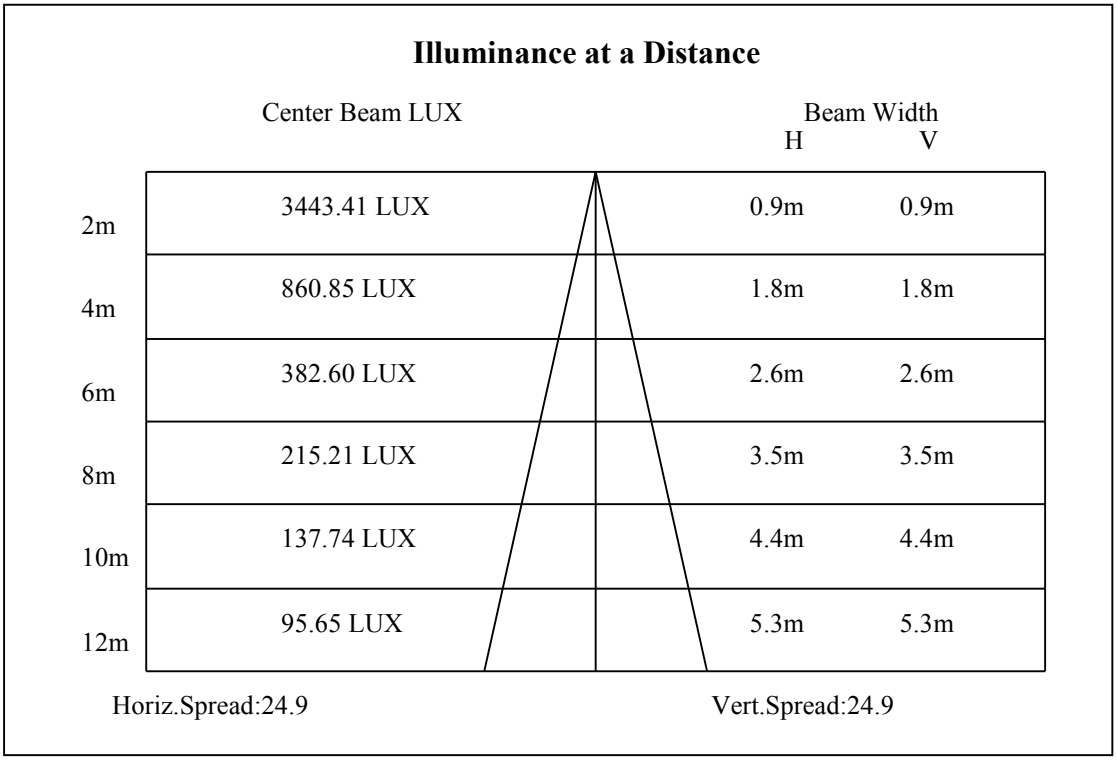
C0/C180:

C90/C270:

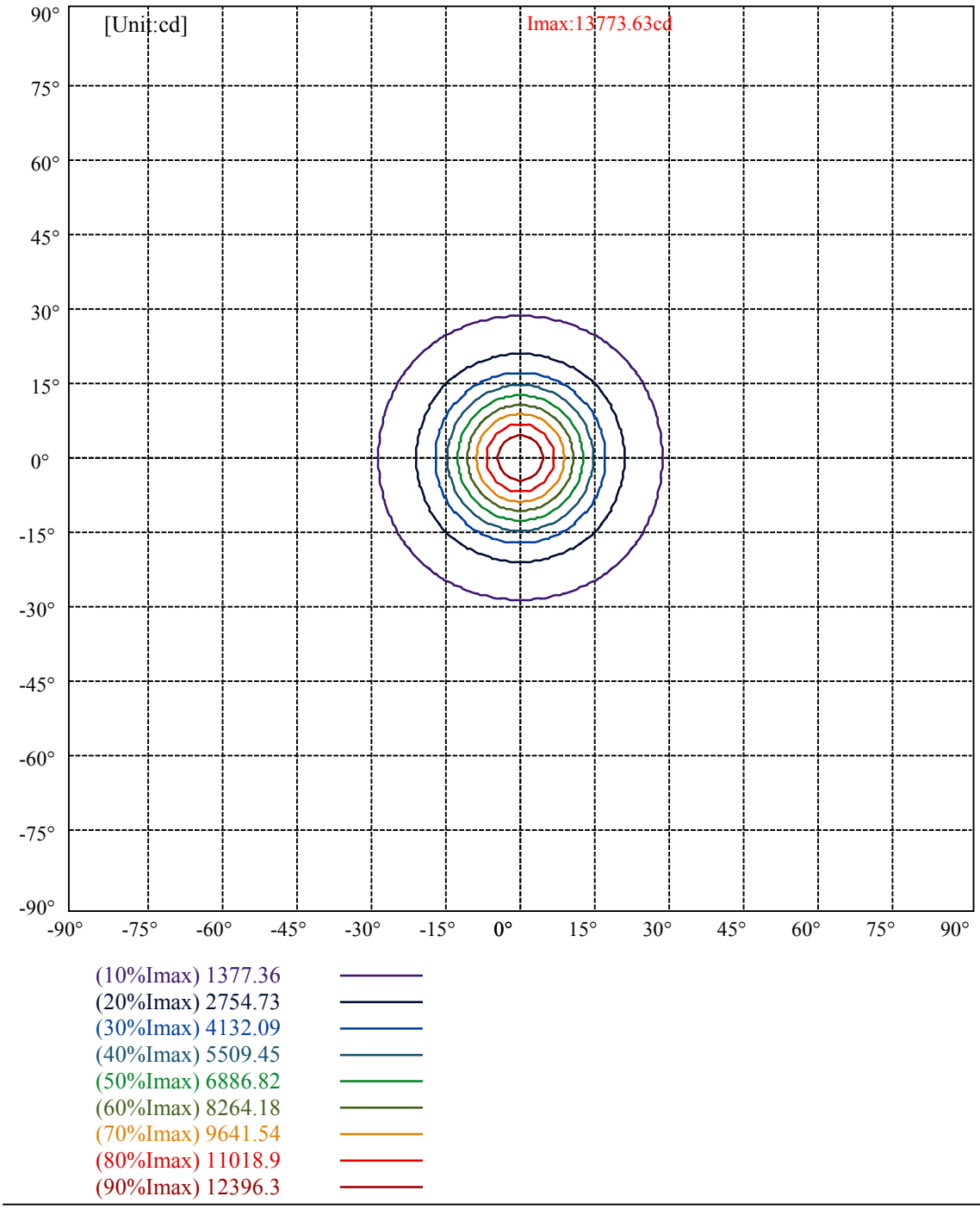
Field angle(10%Imax):C0/180Left:28.3 Right:28.3
:C90/270Left:28.3 Right:28.3

Beam Angle(50%Imax):C0/180Left:12.5 Right:12.5
:C90/270Left:12.5 Right:12.5

Lux distance Curve



ISO-Intensity(V-H)

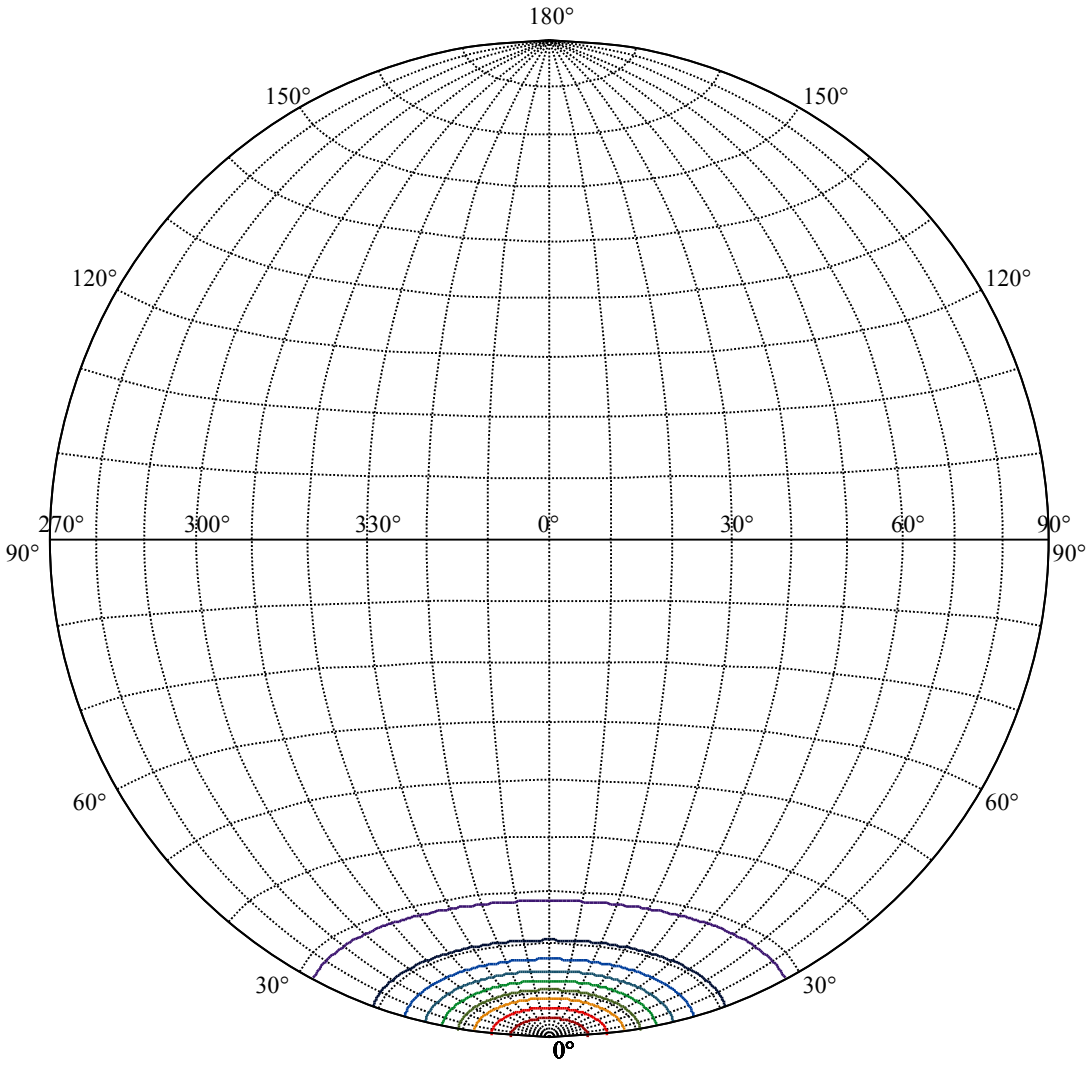


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:13773.63

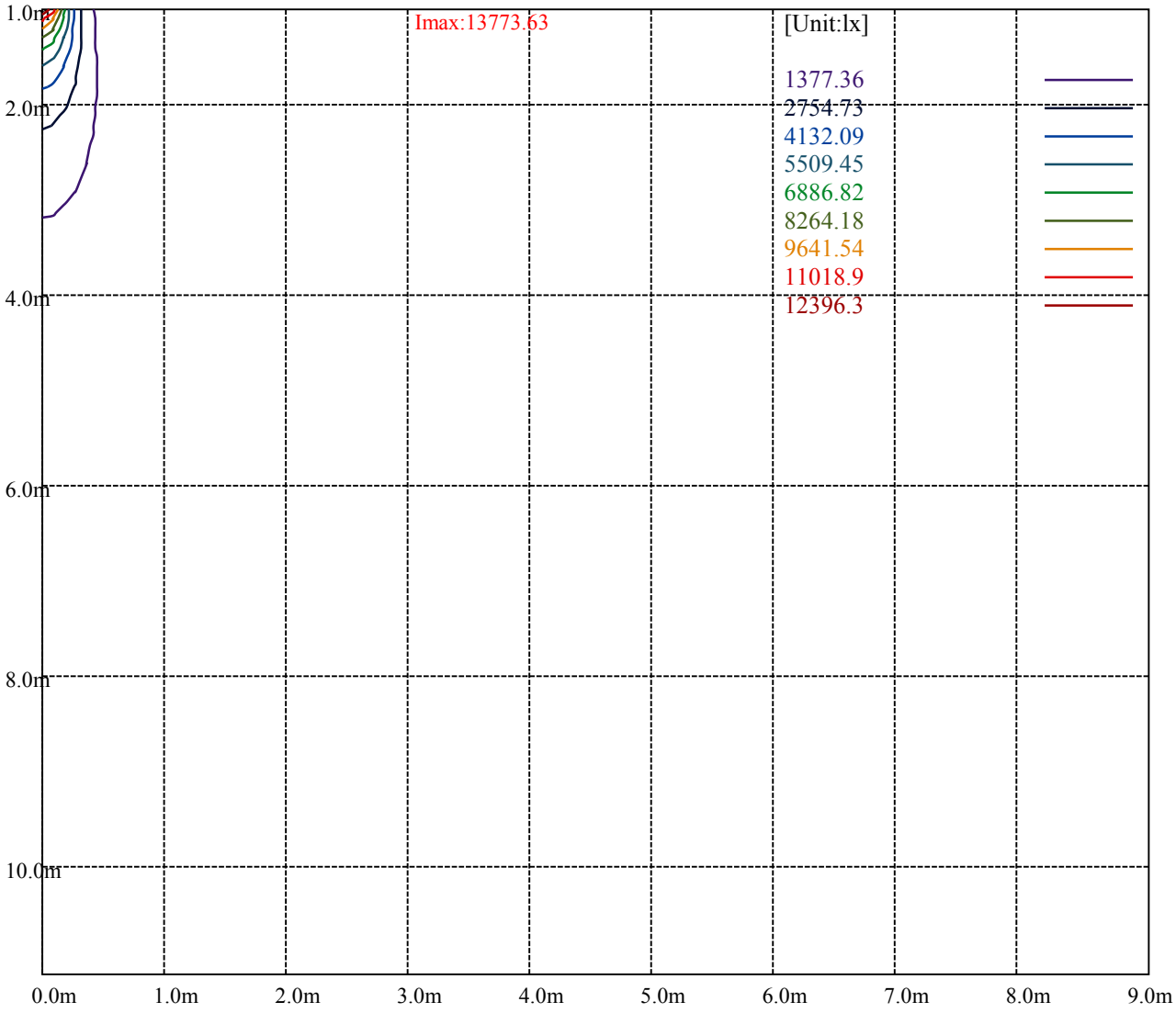
(10%Imax) 1377.36
(20%Imax) 2754.73
(30%Imax) 4132.09
(40%Imax) 5509.45
(50%Imax) 6886.82
(60%Imax) 8264.18
(70%Imax) 9641.54
(80%Imax) 11018.9
(90%Imax) 12396.3

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 2-2752-L

Luminance Limitting Curve(no luminous side)

Luminance Table

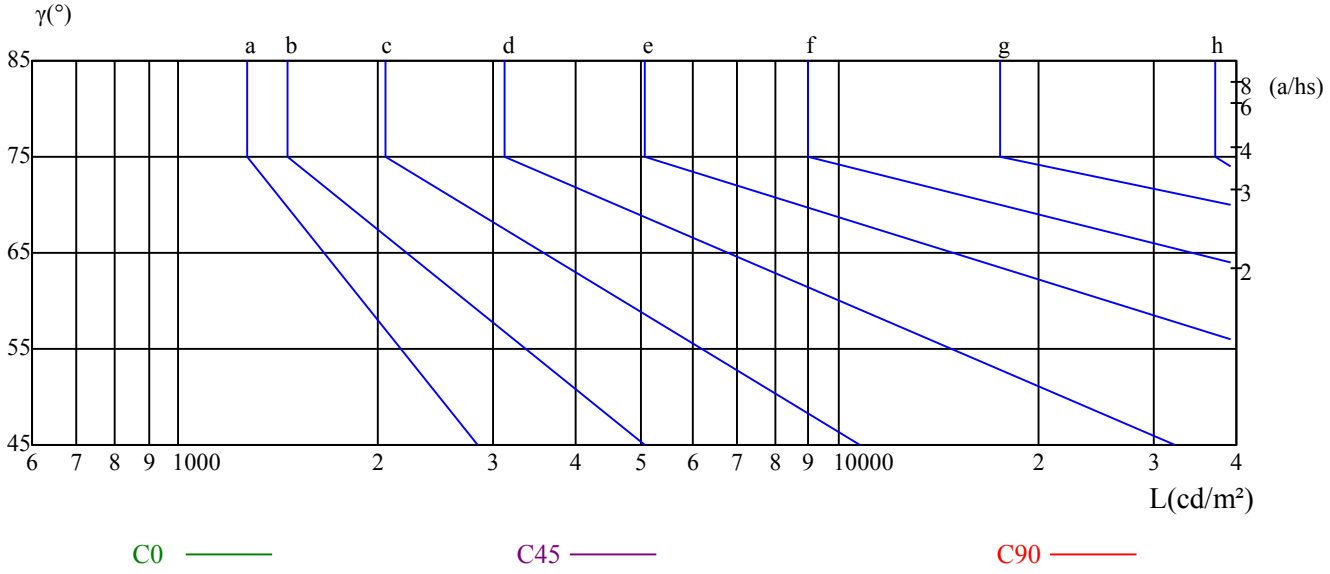
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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%

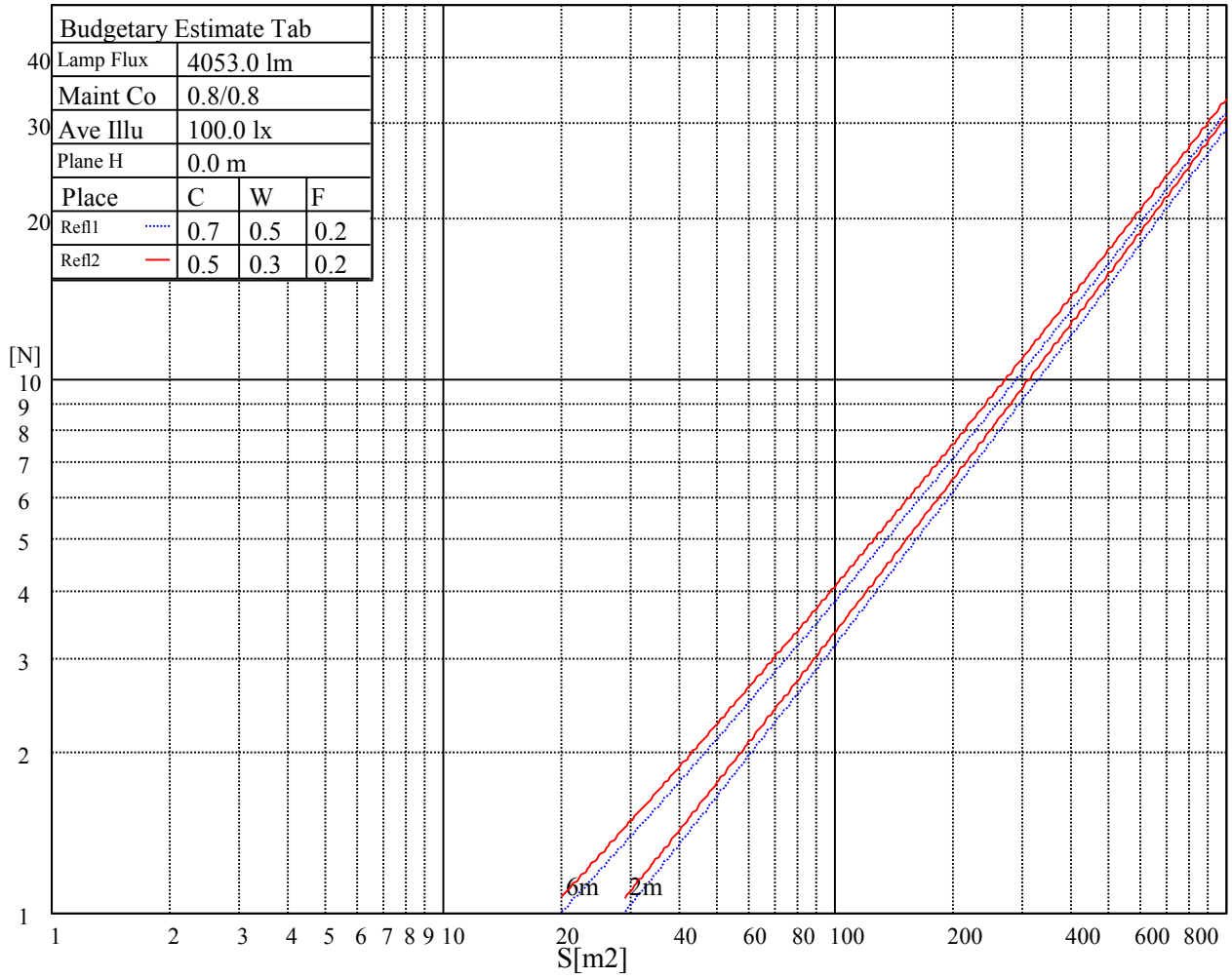
Operator: NT
Distance(m): 7.25

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

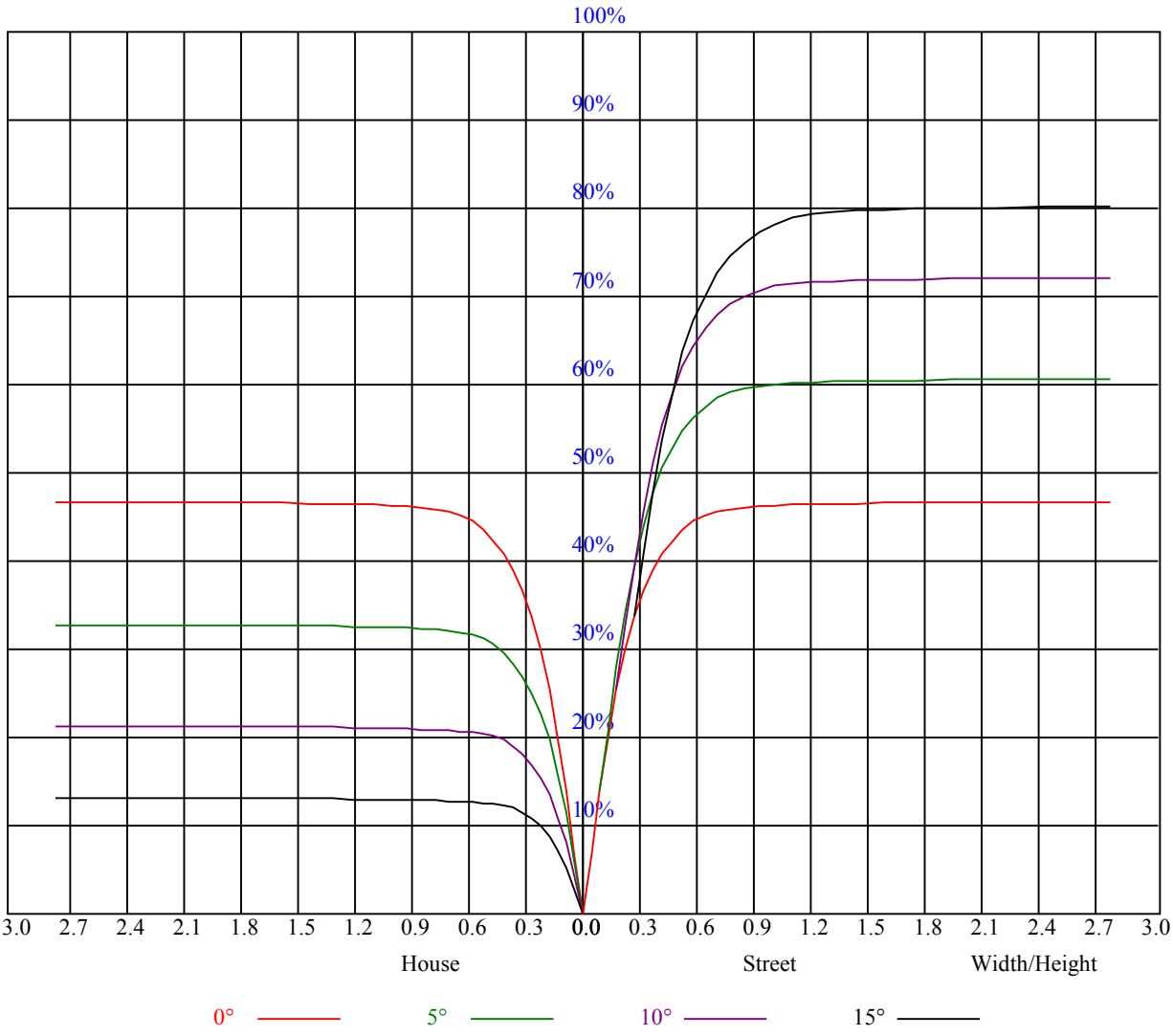
Date: 2024/9/2
Humidity(%): 60.0%

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

Coefficient Utilization Curve

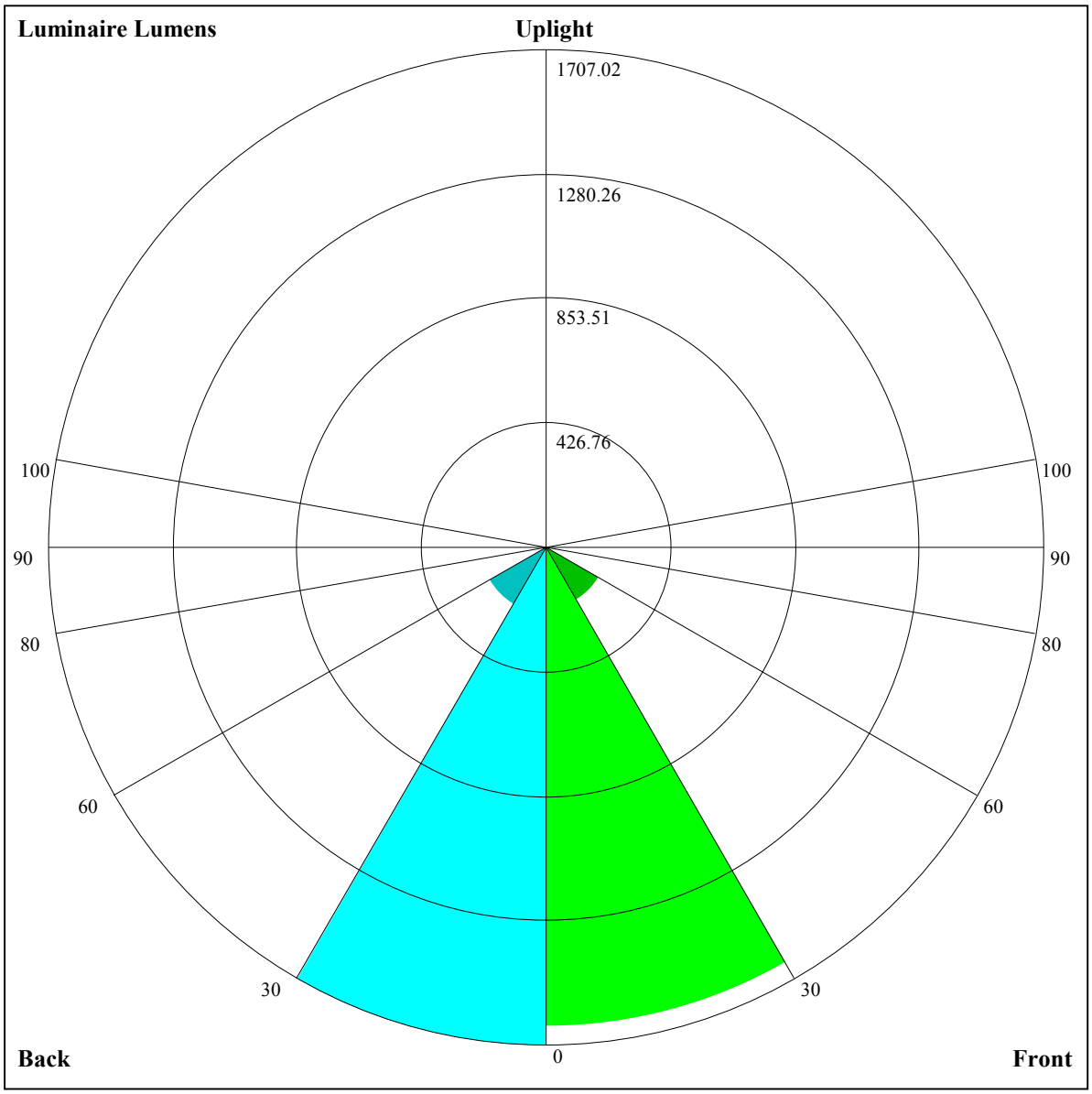


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=1642.39,FM=206.31,FH=12.08,FVH=1.24

BL=1707.02,BM=228,BH=12.44,BVH=1.27

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	13754.13	13553.56	13219.26	12762.39	12221.94	10859.41	10859.41	10278.28	9511.08
45.0	13848.85	13703.99	13397.55	12957.39	12428.09	11798.49	11118.76	10372.16	9608.85
90.0	13609.27	13213.69	12706.67	12054.79	10848.79	10848.79	9883.22	9282.06	8482.54
135.0	13882.28	13692.85	13430.98	12935.11	12366.80	11854.21	11163.33	10416.73	9636.70
180.0	13754.13	13804.28	13703.99	13503.41	13146.83	12684.38	12104.93	11464.20	10767.74
225.0	13848.85	13860.00	13715.13	13492.27	13124.54	12572.95	12138.36	11065.56	10759.12
270.0	13609.27	13848.85	13960.28	13943.57	13742.99	13442.12	13024.25	12506.09	12121.65
315.0	13882.28	13938.00	13826.57	13598.13	13247.12	12773.53	12194.08	11093.95	10810.37
360.0	13754.13	13553.56	13219.26	12762.39	12221.94	10859.41	10859.41	10278.28	9511.08

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8584.51	7961.59	7184.35	6439.43	5735.20	5078.27	4501.61	3990.70	3537.14
45.0	8845.53	8059.93	7285.48	6533.31	5814.57	5168.26	4577.67	4053.94	3597.06
90.0	7554.86	6939.77	6199.27	5495.57	4877.12	4313.86	3810.15	3387.29	3018.98
135.0	8851.10	8065.51	7296.62	6533.31	5814.57	5162.69	4572.10	4042.79	3580.35
180.0	10310.87	9246.69	8778.67	8004.22	7224.19	6483.16	5770.00	5118.12	4533.10
225.0	10034.23	9241.96	8444.64	7657.36	6899.62	6159.75	5493.94	4868.23	4311.60
270.0	11174.47	10427.87	9976.57	9218.83	8438.80	7664.35	6884.32	6154.44	5480.27
315.0	10054.84	9277.60	8488.69	7707.55	7247.32	6497.93	5524.00	5142.93	4556.75
360.0	8584.51	7961.59	7184.35	6439.43	5735.20	5078.27	4501.61	3990.70	3537.14

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3139.35	2811.20	2523.11	2285.79	2078.53	1898.56	1745.34	1610.52	1494.61
45.0	3184.76	2973.04	2839.32	2772.46	2173.77	1973.77	1796.59	1658.98	1543.66
90.0	2701.40	2420.03	2195.54	1989.91	1819.45	1679.00	1556.43	1438.32	1363.10
135.0	3184.76	2839.32	2839.32	2315.85	2186.60	1997.74	1831.12	1691.30	1571.51
180.0	4009.36	3569.20	3173.62	2833.75	2833.75	2285.79	2090.20	1914.69	1826.13
225.0	4011.89	3400.64	3187.28	2860.77	2580.50	2340.92	2133.67	1963.16	1817.19
270.0	4850.68	4310.23	3814.36	3390.91	3034.33	2789.18	2789.18	2301.92	2100.24
315.0	4035.28	3568.36	3190.60	2851.31	2569.94	2334.25	2130.31	1944.81	1794.38
360.0	3139.35	2811.20	2523.11	2285.79	2078.53	1898.56	1745.34	1610.52	1494.61

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1351.96	1075.01	1075.01	986.81	849.09	716.06	591.96	474.43	367.62
45.0	1427.76	1292.35	1147.49	1006.52	873.90	742.45	615.98	521.79	388.07
90.0	1091.88	1091.88	952.22	814.72	682.68	558.84	443.94	336.77	240.84
135.0	1461.71	1329.15	1188.18	1045.52	904.55	771.41	641.58	519.58	407.57
180.0	1691.30	1535.82	1470.65	1338.03	1195.95	1058.35	918.48	781.45	651.62
225.0	1694.62	1578.71	1471.22	1338.61	1035.22	1035.22	893.25	752.80	673.38
270.0	1869.60	1791.01	1661.76	1548.65	1427.76	1289.57	1148.60	1008.78	867.23
315.0	1671.80	1553.12	1429.96	1094.72	1094.72	1038.69	894.30	757.74	624.07
360.0	1351.96	1075.01	1075.01	986.81	849.09	716.06	591.96	474.43	367.62

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	276.69	202.47	140.24	105.07	93.19	83.21	75.37	69.80	61.66
45.0	306.75	306.75	148.12	104.34	89.57	79.95	72.96	66.70	60.29
90.0	163.42	109.80	86.26	76.79	69.17	63.29	57.50	52.04	48.15
135.0	305.60	305.60	210.20	112.38	92.46	82.73	74.69	67.86	61.60
180.0	526.83	414.25	311.75	311.75	149.44	113.38	92.88	84.47	75.74
225.0	551.59	388.75	324.63	228.75	153.11	105.76	88.67	77.90	69.49
270.0	732.98	603.15	479.48	366.36	302.81	302.81	128.25	93.93	81.05
315.0	500.55	385.34	284.84	201.63	138.19	101.34	87.83	78.16	70.75
360.0	276.69	202.47	140.24	105.07	93.19	83.21	75.37	69.80	61.66

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	56.29	52.88	48.36	45.52	42.84	40.74	39.16	37.48	36.27
45.0	54.77	50.51	46.94	43.52	40.68	38.90	38.06	36.43	35.22
90.0	44.84	42.10	39.37	37.27	36.27	34.85	33.59	33.01	32.33
135.0	56.14	52.09	48.46	44.99	42.16	40.74	39.16	37.58	36.22
180.0	67.33	62.29	57.08	52.88	49.09	45.47	43.00	41.16	39.42
225.0	62.55	56.77	52.09	48.57	44.84	41.47	39.37	37.79	36.32
270.0	73.64	66.28	59.82	54.30	50.20	46.41	42.94	40.37	38.63
315.0	63.92	57.77	54.82	48.94	46.73	43.47	39.95	38.95	37.42
360.0	56.29	52.88	48.36	45.52	42.84	40.74	39.16	37.48	36.27

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	35.16	33.48	31.91	30.49	28.75	26.60	24.39	23.07	21.29
45.0	34.11	33.27	32.01	30.33	29.28	27.70	25.44	23.34	21.76
90.0	31.22	29.86	28.75	27.70	25.55	23.29	21.60	19.82	17.66
135.0	35.22	34.27	32.01	30.59	29.70	27.91	25.60	23.60	22.02
180.0	37.79	36.69	35.37	33.53	31.80	30.38	28.65	26.28	24.18
225.0	35.43	33.96	33.17	32.22	29.86	29.12	27.49	25.28	23.13
270.0	37.06	35.22	33.80	32.85	31.80	30.33	29.07	27.86	25.97
315.0	35.90	35.11	33.85	32.43	31.06	29.86	28.07	26.02	24.07
360.0	35.16	33.48	31.91	30.49	28.75	26.60	24.39	23.07	21.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.03	16.98	15.66	14.45	13.51	11.51	10.99	9.93	8.62
45.0	19.87	17.71	15.93	14.72	13.40	11.83	10.72	9.78	8.83
90.0	16.03	14.82	13.46	11.93	11.04	10.09	8.78	8.25	7.15
135.0	20.18	18.08	16.40	15.14	13.67	12.14	10.99	9.93	8.99
180.0	22.65	21.66	19.50	16.61	15.93	14.77	13.25	11.67	10.57
225.0	21.55	19.92	17.71	15.87	14.77	13.51	12.09	10.67	9.78
270.0	23.65	22.55	20.34	19.13	17.03	15.45	14.45	13.19	11.67
315.0	22.55	20.71	18.45	16.56	15.40	14.45	12.62	11.25	10.57
360.0	19.03	16.98	15.66	14.45	13.51	11.51	10.99	9.93	8.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.99	7.31	6.68	6.10	5.57	5.10	4.63	4.10	3.68
45.0	7.99	7.10	6.47	5.99	5.47	4.89	4.47	3.99	3.63
90.0	6.52	5.99	5.52	4.94	4.47	4.10	3.68	3.21	2.89
135.0	7.99	7.31	6.68	6.10	5.57	5.15	4.63	4.26	3.78
180.0	9.62	8.73	7.78	7.10	6.52	5.94	5.41	4.99	4.57
225.0	8.88	8.04	7.15	6.73	6.04	5.57	5.10	4.57	4.21
270.0	10.30	9.57	8.67	7.67	6.89	6.41	5.89	5.31	4.84
315.0	9.57	8.67	7.78	7.10	6.57	6.04	5.57	5.10	4.57
360.0	7.99	7.31	6.68	6.10	5.57	5.10	4.63	4.10	3.68

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.31	2.94	2.52	2.16	2.00	1.73	1.37	1.21	1.05
45.0	3.15	2.84	2.47	2.10	1.84	1.52	1.31	1.16	1.10
90.0	2.63	2.26	1.94	1.73	1.47	1.26	1.05	1.00	1.00
135.0	3.31	2.94	2.68	2.26	1.94	1.58	1.31	1.21	1.10
180.0	4.05	3.63	3.10	2.84	2.37	2.16	1.84	1.52	1.16
225.0	3.84	3.31	3.05	2.68	2.31	2.05	1.79	1.47	1.21
270.0	4.47	4.05	3.57	3.15	2.84	2.47	2.16	1.84	1.52
315.0	4.15	3.73	3.36	3.00	2.63	2.26	1.89	1.58	1.31
360.0	3.31	2.94	2.52	2.16	2.00	1.73	1.37	1.21	1.05

Intensity data(cd)

C/γ(°)	90.0
0.0	1.10
45.0	1.00
90.0	0.95
135.0	1.00
180.0	0.89
225.0	1.00
270.0	1.21
315.0	1.16
360.0	1.10