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

Nata

Client:
LumCAT: 2-2748-L
Luminaire: 92.70.412.00
Report No: 2024815-B009
Ballast type: AC

Test No: 2024817-C009	Voltage(V): 36.500
LampCAT: CREE CXA1830 LES14	Current(A): 0.795
Lamp flux(lm): 3731.0	Power (W): 29.010
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3452.70, Efficiency(%): 92.54% , Luminous Efficacy(lm/W): 119.02
Central intensity(cd): 16353.300, Maximum intensity(cd): 16353.300
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.2
[C90/270]Total=19.2
Field angle(10%Imax): [C0/180]Total=49.8
[C90/270]Total=49.8
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.36 C90_270=0.36
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.54%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.915%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16353.298	0.000	0	0.00%	0.00%
1.0	16296.188	15.622	15.622	0.42%	0.45%
2.0	15862.298	46.157	61.779	1.24%	1.79%
3.0	15313.493	74.562	136.341	2.00%	3.95%
4.0	14516.751	99.851	236.193	2.68%	6.84%
5.0	13248.582	119.445	355.638	3.20%	10.30%
6.0	12400.611	134.793	490.431	3.61%	14.20%
7.0	11089.649	145.804	636.235	3.91%	18.43%
8.0	10072.966	151.457	787.691	4.06%	22.81%
9.0	8874.988	153.563	941.254	4.12%	27.26%
10.0	7767.075	150.605	1091.859	4.04%	31.62%
11.0	6811.410	145.669	1237.528	3.90%	35.84%
12.0	5940.620	139.398	1376.926	3.74%	39.88%
13.0	5246.684	132.765	1509.691	3.56%	43.72%
14.0	4597.307	126.002	1635.693	3.38%	47.37%
15.0	4103.942	119.455	1755.148	3.20%	50.83%
16.0	3665.242	113.840	1868.988	3.05%	54.13%
17.0	3291.667	108.338	1977.326	2.90%	57.27%
18.0	2993.303	103.626	2080.951	2.78%	60.27%
19.0	2742.442	99.790	2180.742	2.67%	63.16%
20.0	2509.518	96.125	2276.867	2.58%	65.94%
21.0	2327.218	92.875	2369.742	2.49%	68.63%
22.0	2127.336	89.516	2459.258	2.40%	71.23%
23.0	1925.568	85.041	2544.299	2.28%	73.69%
24.0	1764.129	80.670	2624.969	2.16%	76.03%
25.0	1623.097	77.018	2701.987	2.06%	78.26%
26.0	1455.981	72.682	2774.669	1.95%	80.36%
27.0	1318.070	67.868	2842.537	1.82%	82.33%
28.0	1181.769	63.291	2905.828	1.70%	84.16%
29.0	1072.906	58.989	2964.816	1.58%	85.87%
30.0	944.765	54.477	3019.293	1.46%	87.45%
31.0	814.042	48.945	3068.238	1.31%	88.86%
32.0	694.364	43.214	3111.452	1.16%	90.12%
33.0	599.252	38.110	3149.563	1.02%	91.22%
34.0	498.667	33.226	3182.789	0.89%	92.18%
35.0	423.233	28.631	3211.42	0.77%	93.01%
36.0	365.631	25.118	3236.537	0.67%	93.74%
37.0	308.029	21.971	3258.508	0.59%	94.38%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	268.949	19.259	3277.767	0.52%	94.93%
39.0	226.571	16.913	3294.68	0.45%	95.42%
40.0	196.906	14.769	3309.45	0.40%	95.85%
41.0	153.101	12.464	3321.913	0.33%	96.21%
42.0	129.468	10.266	3332.18	0.28%	96.51%
43.0	109.153	8.839	3341.019	0.24%	96.77%
44.0	93.456	7.647	3348.666	0.20%	96.99%
45.0	80.316	6.678	3355.344	0.18%	97.18%
46.0	70.020	5.879	3361.223	0.16%	97.35%
47.0	62.030	5.252	3366.475	0.14%	97.50%
48.0	55.920	4.768	3371.244	0.13%	97.64%
49.0	51.262	4.401	3375.645	0.12%	97.77%
50.0	47.319	4.110	3379.755	0.11%	97.89%
51.0	44.560	3.887	3383.642	0.10%	98.00%
52.0	42.030	3.716	3387.358	0.10%	98.11%
53.0	40.388	3.585	3390.943	0.10%	98.21%
54.0	39.376	3.516	3394.459	0.09%	98.31%
55.0	38.528	3.478	3397.936	0.09%	98.41%
56.0	38.016	3.459	3401.395	0.09%	98.51%
57.0	37.714	3.463	3404.858	0.09%	98.61%
58.0	37.418	3.474	3408.332	0.09%	98.71%
59.0	36.853	3.472	3411.804	0.09%	98.82%
60.0	35.697	3.427	3415.232	0.09%	98.91%
61.0	34.356	3.343	3418.575	0.09%	99.01%
62.0	32.168	3.206	3421.78	0.09%	99.10%
63.0	29.409	2.995	3424.775	0.08%	99.19%
64.0	26.478	2.742	3427.518	0.07%	99.27%
65.0	23.489	2.473	3429.99	0.07%	99.34%
66.0	20.769	2.208	3432.199	0.06%	99.41%
67.0	18.528	1.976	3434.175	0.05%	99.46%
68.0	16.603	1.780	3435.954	0.05%	99.51%
69.0	14.928	1.609	3437.563	0.04%	99.56%
70.0	13.725	1.472	3439.034	0.04%	99.60%
71.0	12.641	1.363	3440.397	0.04%	99.64%
72.0	11.754	1.268	3441.666	0.03%	99.68%
73.0	10.880	1.184	3442.849	0.03%	99.71%
74.0	10.171	1.107	3443.956	0.03%	99.75%
75.0	9.527	1.041	3444.997	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.863	0.976	3445.973	0.03%	99.81%
77.0	8.187	0.909	3446.882	0.02%	99.83%
78.0	7.562	0.843	3447.725	0.02%	99.86%
79.0	6.859	0.775	3448.5	0.02%	99.88%
80.0	6.216	0.705	3449.205	0.02%	99.90%
81.0	5.473	0.632	3449.837	0.02%	99.92%
82.0	4.809	0.558	3450.395	0.01%	99.93%
83.0	4.185	0.489	3450.883	0.01%	99.95%
84.0	3.535	0.421	3451.304	0.01%	99.96%
85.0	2.983	0.356	3451.66	0.01%	99.97%
86.0	2.464	0.298	3451.958	0.01%	99.98%
87.0	2.011	0.245	3452.202	0.01%	99.99%
88.0	1.629	0.199	3452.402	0.01%	99.99%
89.0	1.327	0.162	3452.564	0.00%	100.00%
90.0	1.156	0.136	3452.7	0.00%	100.00%

Zonal flux distribution table

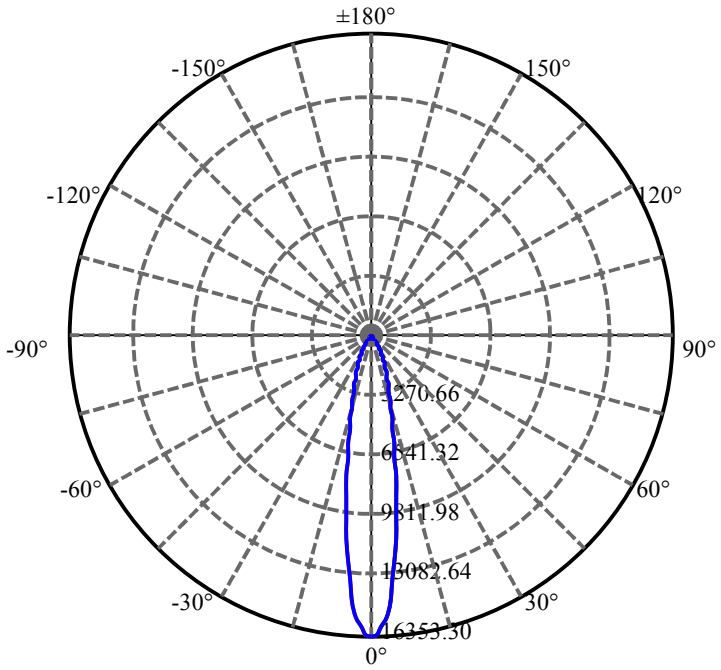
ZONAL LUMEN SUMMARY

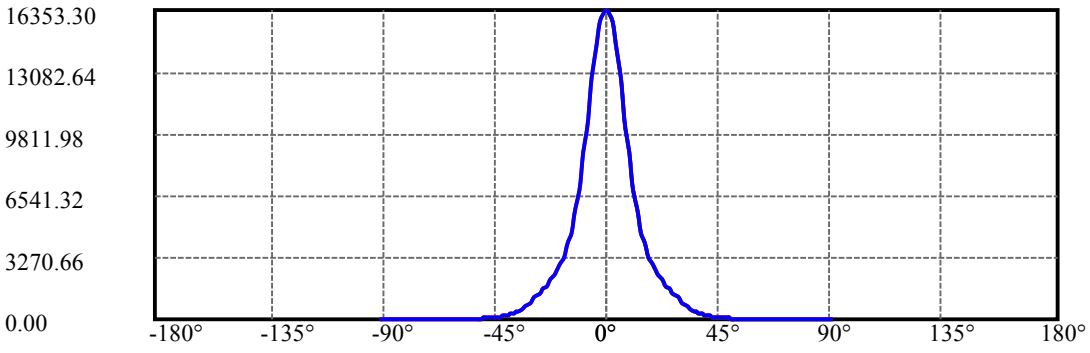
Zone	Lumens	%Lamp	%Fixt
0-30	3019.29	80.92%	87.45%
0-40	3309.45	88.70%	95.85%
0-60	3415.23	91.54%	98.91%
0-90	3452.56	92.54%	100.00%
0-120	3452.56	92.54%	100.00%
0-180	3452.70	92.54%	100.00%
60-90	37.33	1.00%	1.08%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.83	2762.16	74.03%	80.00%

ZONAL LUMEN SUMMARY

0-10	1091.86
10-20	1185.01
20-30	742.43
30-40	290.16
40-50	70.31
50-60	35.48
60-70	23.80
70-80	10.17
80-90	3.36
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):

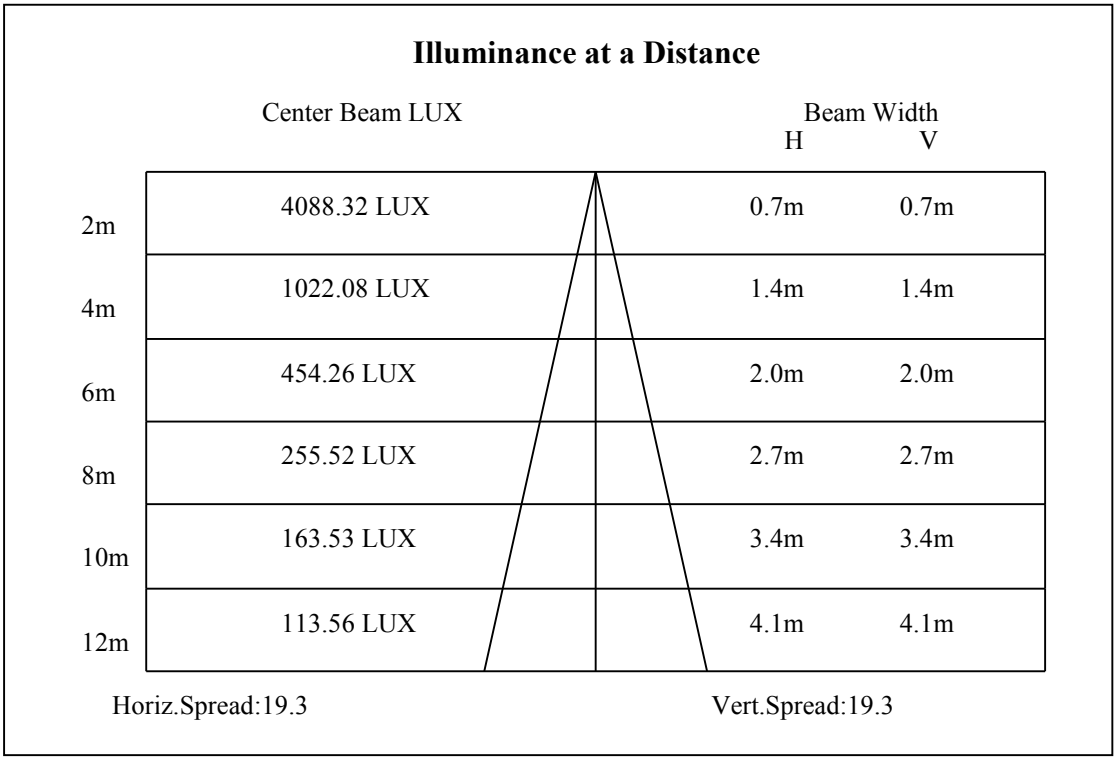
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:24.9 Right:24.9
:C90/270Left:24.9 Right:24.9

Beam Angle(50%Imax):C0/180Left:9.6 Right:9.6
:C90/270Left:9.6 Right:9.6

Lux distance Curve

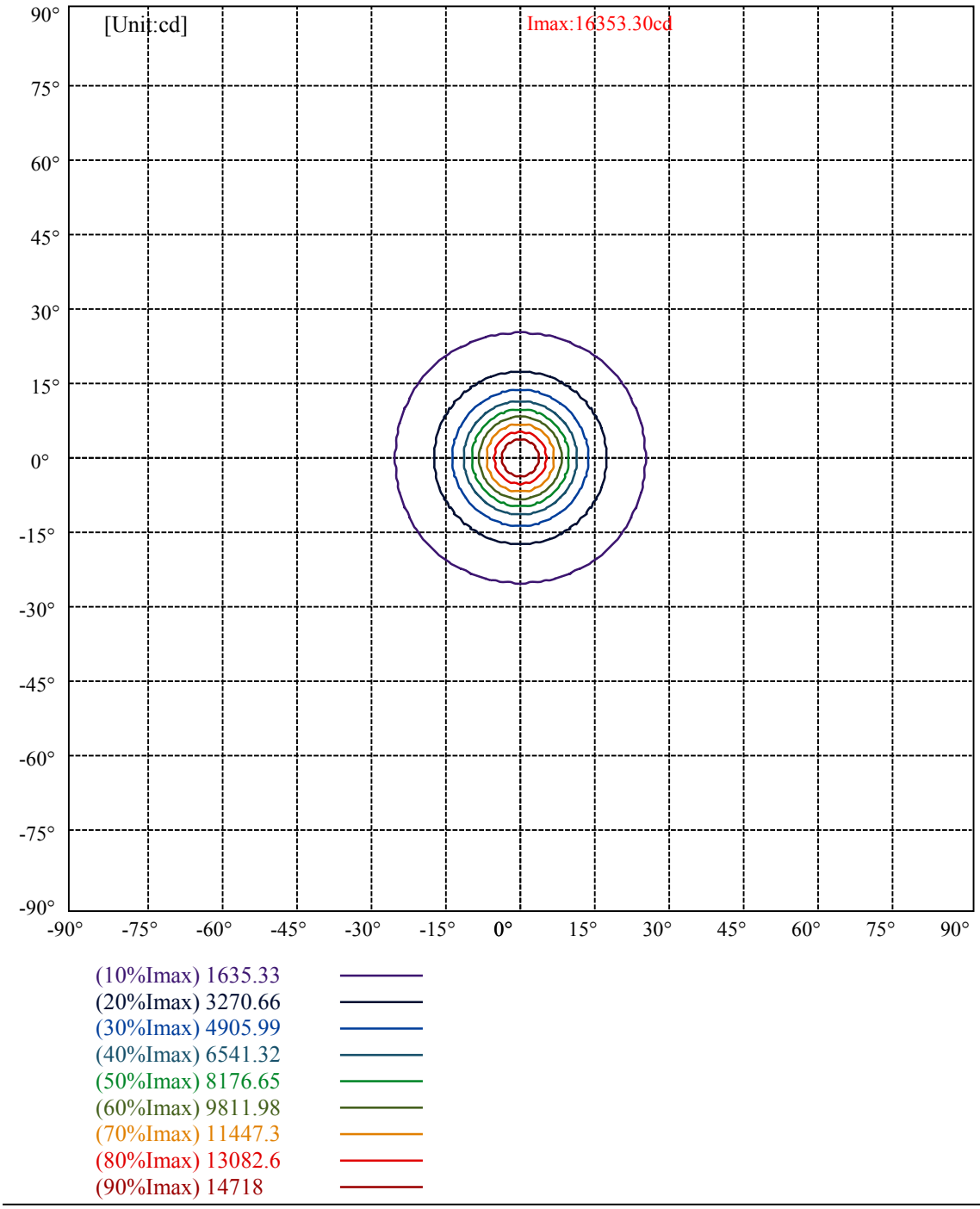


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)

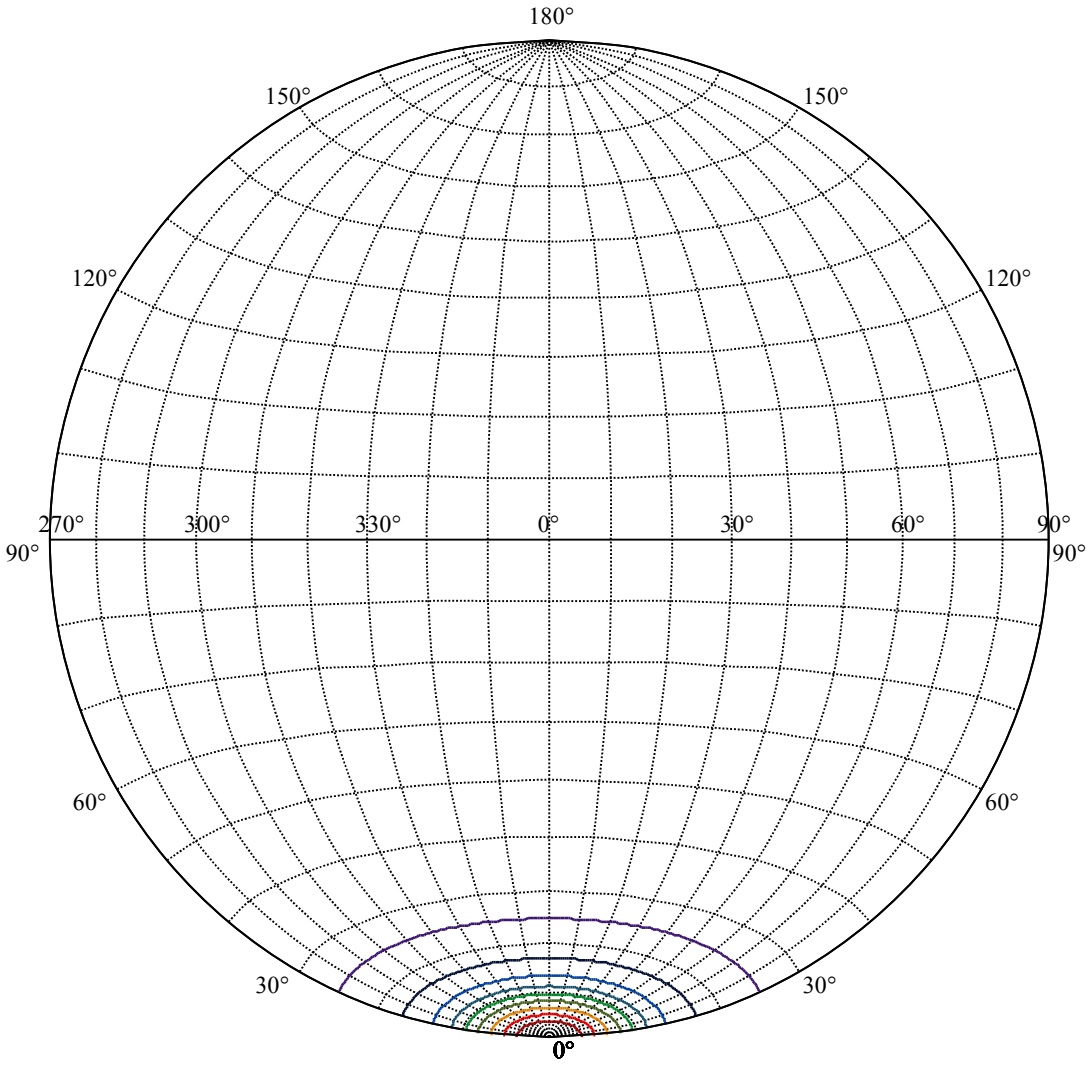


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:16353.30

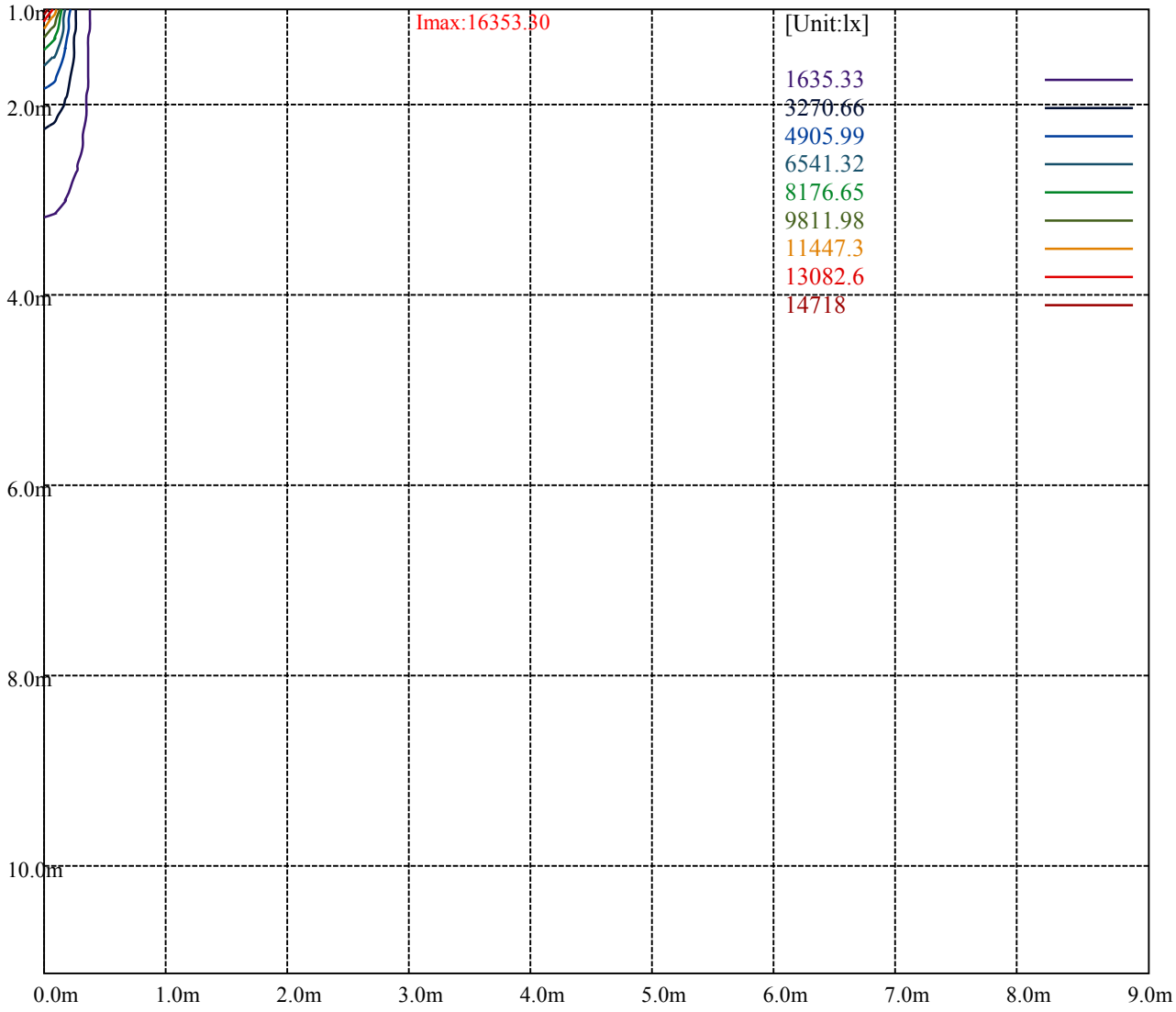
(10%Imax) 1635.33
(20%Imax) 3270.66
(30%Imax) 4905.99
(40%Imax) 6541.32
(50%Imax) 8176.65
(60%Imax) 9811.98
(70%Imax) 11447.3
(80%Imax) 13082.6
(90%Imax) 14718

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2748-L

Luminance Limitting Curve(no luminous side)

Luminance Table

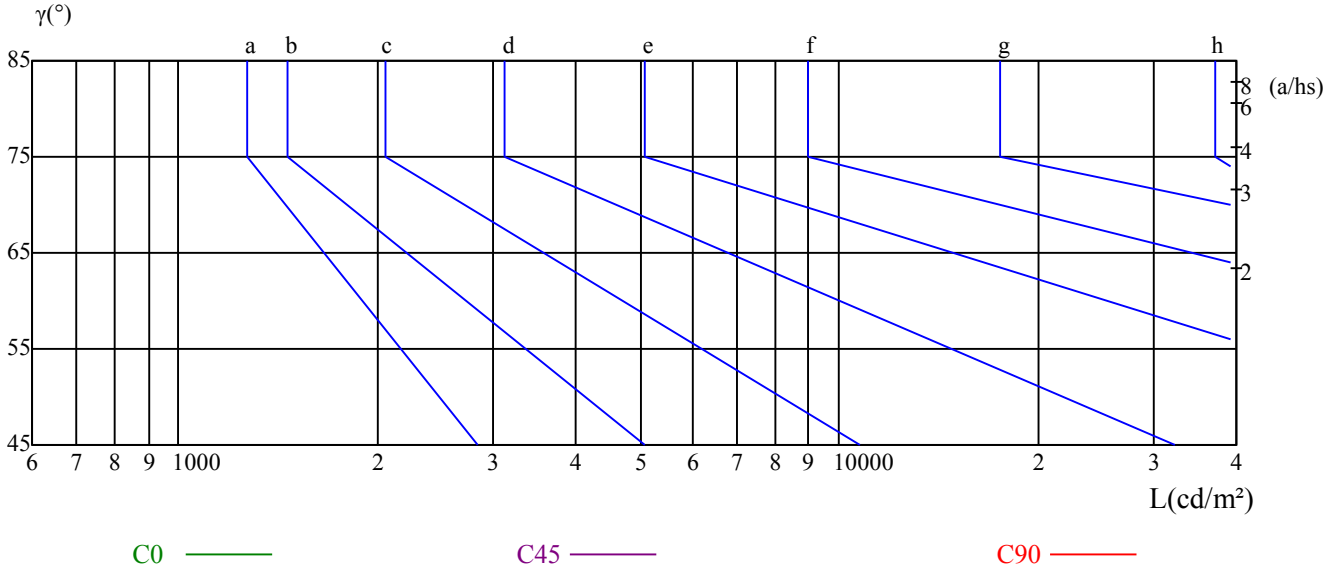
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

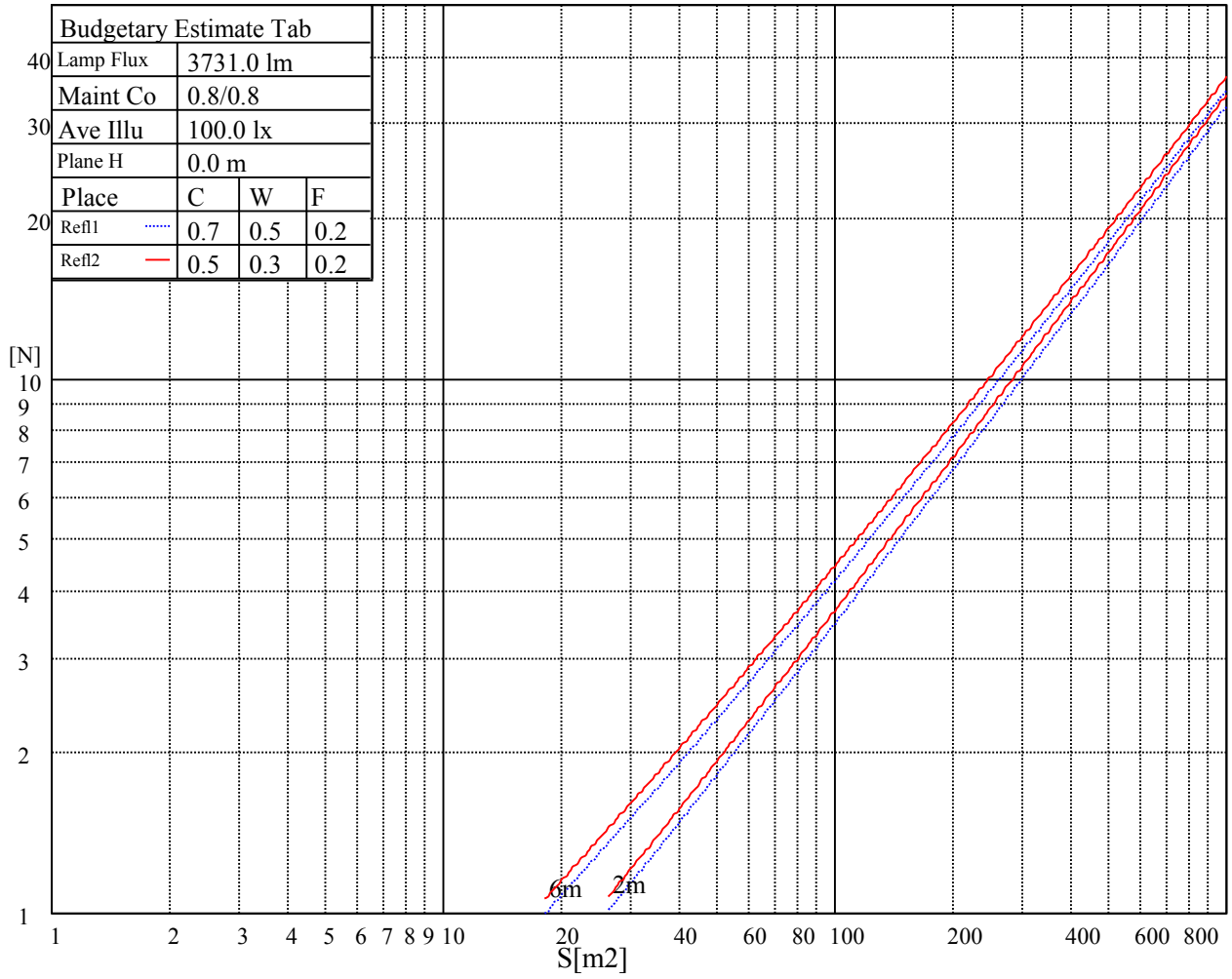
Date: 2024/8/17
Humidity(%): 60.0%

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

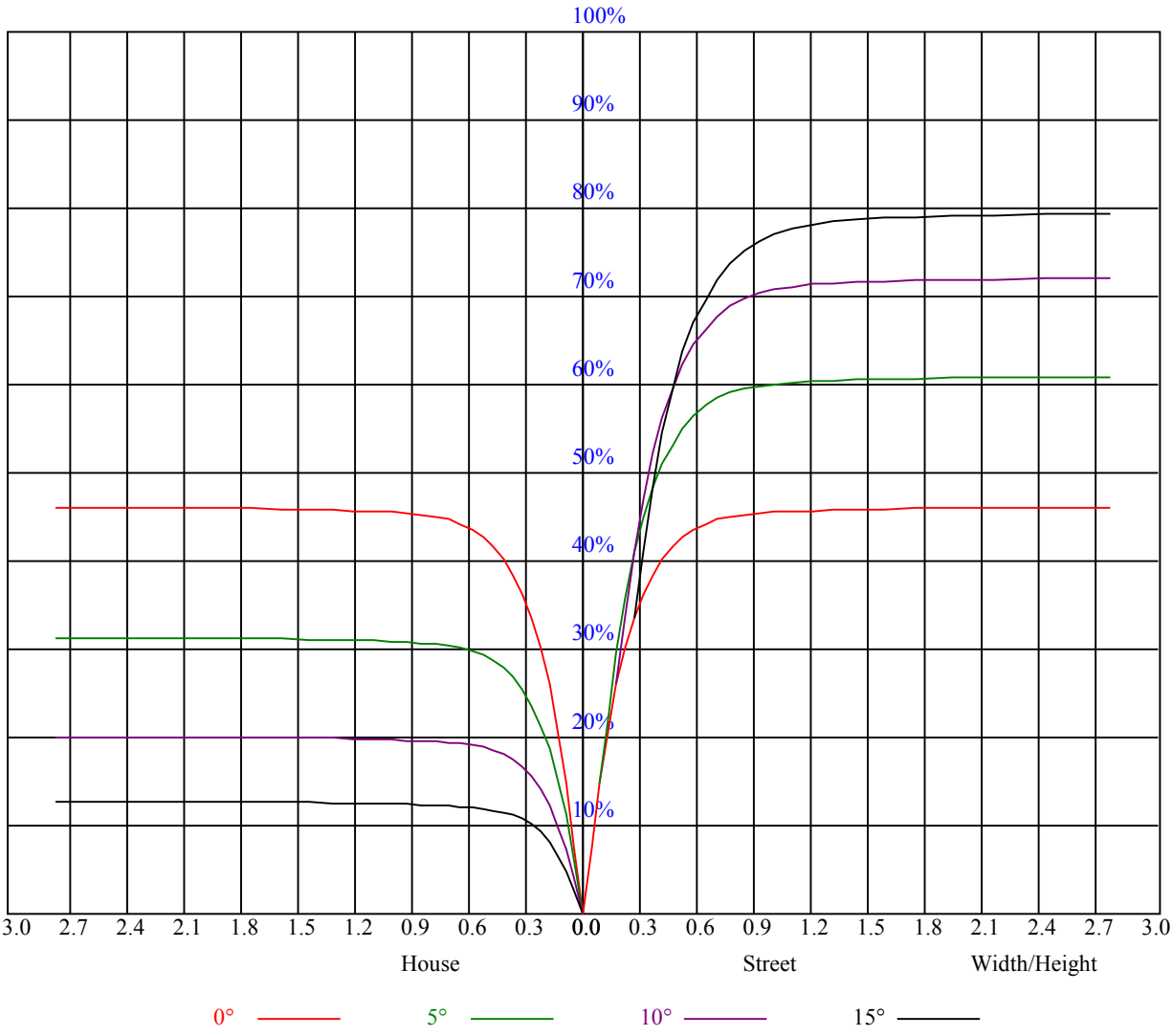


Equipment: GMS 1800 Date: 2024/8/17 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

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	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.88
2	0.98	0.95	0.92	0.97	0.94	0.91	0.94	0.91	0.89	0.91	0.89	0.88	0.89	0.87	0.86	0.84
3	0.93	0.90	0.87	0.92	0.89	0.86	0.90	0.87	0.85	0.88	0.85	0.83	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.83	0.80	0.79	0.77
5	0.85	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	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	0.73	0.70	0.68	0.73	0.70	0.67	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	0.64	0.70	0.66	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.62

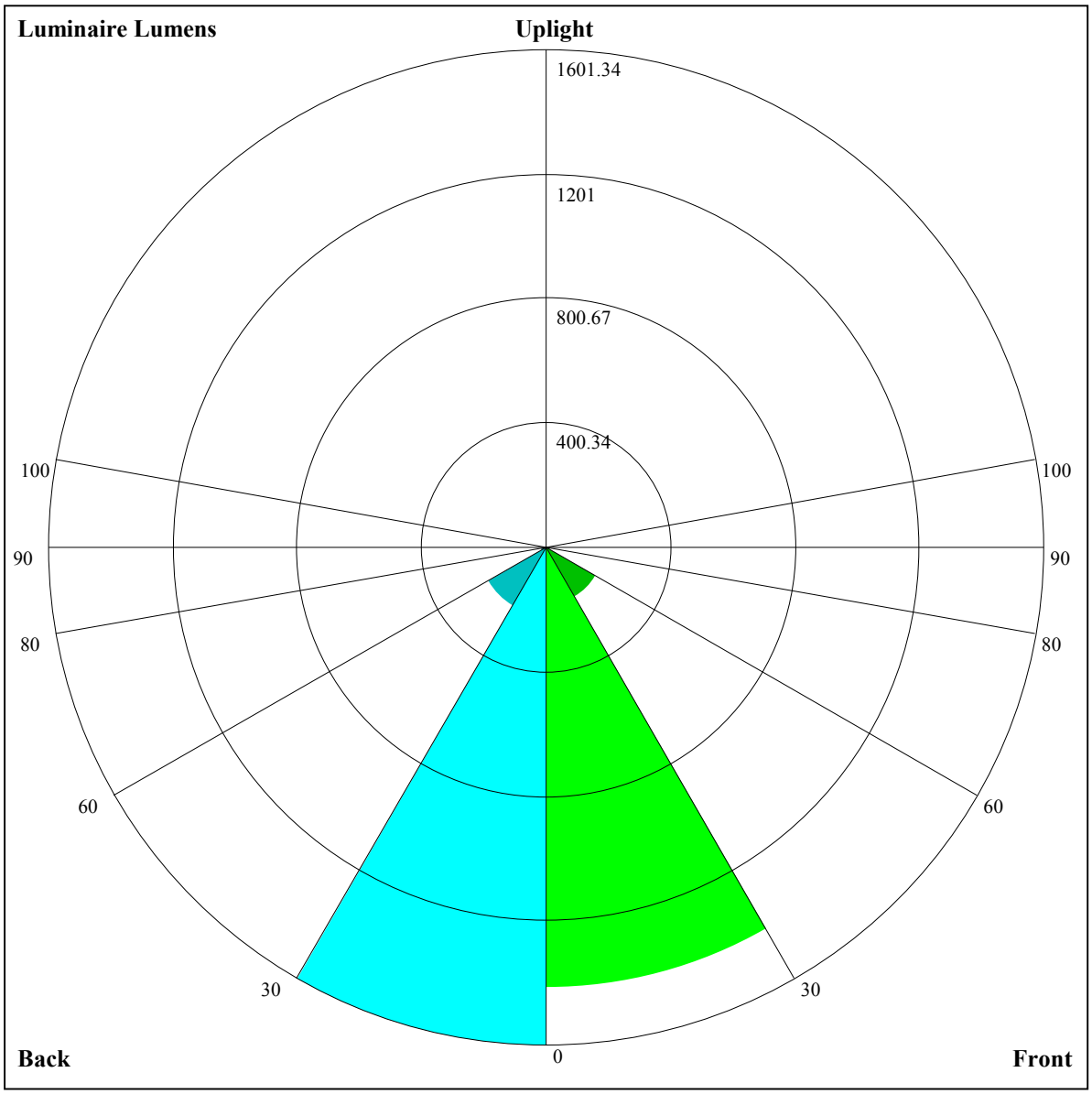
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1417.22,FM=184.05,FH=16.09,FVH=1.6
BL=1601.34,BM=218.41,BH=17.92,BVH=1.93
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	16083.07	15754.35	14667.88	14094.00	12533.95	10714.55	10462.67	9205.74	8028.45
45.0	16556.66	16239.08	15681.92	14885.17	13893.43	12751.24	12021.36	10216.15	9469.55
90.0	16244.65	15954.93	14963.18	13988.14	13325.12	10821.51	10821.51	9550.08	8339.36
135.0	16528.80	16562.23	16333.80	15854.64	15169.33	14250.01	13174.69	11965.64	10673.03
180.0	16083.07	16450.80	16578.95	16389.51	16010.64	15381.05	14534.16	13481.12	12272.08
225.0	16556.66	16617.95	16383.94	15927.07	15230.62	14322.44	13241.55	10458.26	10458.26
270.0	16244.65	16528.80	16551.09	16339.37	15893.64	15208.33	14283.44	13174.69	11943.36
315.0	16528.80	16261.37	15737.63	15030.04	14077.29	12539.52	10665.51	10665.51	9399.65
360.0	16083.07	15754.35	14667.88	14094.00	12533.95	10714.55	10462.67	9205.74	8028.45

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6987.66	6066.13	5315.65	4702.19	4167.89	3713.23	3312.65	2981.66	2709.23
45.0	8271.66	6817.46	6282.59	5485.84	4850.68	4310.23	3853.36	3452.20	3106.76
90.0	7254.57	6291.78	5475.54	4802.48	4255.88	3795.12	3391.75	3056.35	2773.30
135.0	9397.12	8182.51	7084.90	6126.58	5636.28	4705.82	4382.66	3914.64	3507.92
180.0	11018.47	9748.14	8511.24	7396.91	6421.88	5602.85	4917.54	4354.80	3870.07
225.0	9202.38	8494.78	7412.26	6453.89	5652.73	4981.35	4425.82	3945.55	3532.15
270.0	10667.45	9413.84	8215.94	7140.62	6210.15	5446.84	4789.39	4254.51	3803.21
315.0	8200.59	7121.96	6193.18	5416.46	4777.98	4223.03	3758.38	3362.21	3030.70
360.0	6987.66	6066.13	5315.65	4702.19	4167.89	3713.23	3312.65	2981.66	2709.23

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2512.54	2261.24	2107.49	1933.67	1743.08	1626.07	1486.78	1349.75	1045.21
45.0	2811.46	2811.46	2365.47	2165.42	1986.60	1860.08	1676.80	1535.82	1425.50
90.0	2582.19	2379.92	2163.21	2035.59	1884.05	1735.88	1596.01	1460.61	1331.93
135.0	3156.90	2844.89	2844.89	2359.90	2151.49	1961.53	1787.13	1628.33	1469.54
180.0	3457.77	3162.48	2867.18	2811.46	2566.05	2241.74	2075.75	1920.27	1775.40
225.0	3174.46	2879.16	2621.76	2395.54	2189.96	2008.31	1841.16	1687.36	1533.62
270.0	3502.34	3095.62	2805.89	2805.89	2557.11	2182.71	2004.94	1838.37	1688.52
315.0	2748.76	2504.76	2300.24	2110.28	1940.34	1788.23	1644.47	1564.26	1378.14
360.0	2512.54	2261.24	2107.49	1933.67	1743.08	1626.07	1486.78	1349.75	1045.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1045.21	970.62	843.63	716.27	602.79	505.02	427.91	362.31	326.31
45.0	1292.35	1154.17	1015.98	875.06	736.30	614.82	512.33	430.43	362.47
90.0	1076.11	1076.11	930.57	788.86	659.92	552.64	496.24	391.70	330.20
135.0	1321.32	1178.71	1045.52	947.49	829.33	719.58	617.61	526.83	448.25
180.0	1631.12	1497.40	1361.42	1228.86	1091.20	948.60	807.04	673.33	556.32
225.0	1384.29	1099.92	1099.92	989.91	854.88	731.35	624.13	533.40	454.30
270.0	1541.40	1397.64	1258.35	1118.53	978.66	844.42	770.30	617.08	524.57
315.0	1252.77	1079.58	1027.86	893.14	759.27	638.48	538.45	454.25	383.44
360.0	1045.21	970.62	843.63	716.27	602.79	505.02	427.91	362.31	326.31

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	256.66	214.51	192.59	160.37	133.19	111.54	93.67	79.47	68.86
45.0	304.49	293.93	293.93	174.82	156.06	128.78	106.96	89.36	75.37
90.0	297.82	230.43	206.15	170.62	141.13	117.21	98.03	82.84	70.85
135.0	381.97	325.68	276.11	276.11	197.64	167.20	141.92	120.58	109.65
180.0	497.82	419.82	332.35	300.03	300.03	203.57	171.35	144.28	121.79
225.0	386.91	328.67	278.84	236.01	197.95	166.36	139.92	118.06	100.18
270.0	477.21	380.82	345.76	292.25	292.25	199.21	166.78	140.45	117.85
315.0	322.16	270.38	225.86	202.37	157.00	130.93	117.11	98.19	83.10
360.0	256.66	214.51	192.59	160.37	133.19	111.54	93.67	79.47	68.86

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	60.81	54.72	50.20	46.41	43.21	41.05	39.84	38.53	37.90
45.0	64.97	57.19	51.46	47.41	43.99	41.16	39.11	38.06	36.74
90.0	62.23	55.87	51.20	47.57	44.57	42.21	40.74	39.26	38.27
135.0	94.03	77.11	71.33	63.44	57.14	52.35	48.36	45.15	42.89
180.0	103.23	88.25	76.32	67.02	59.76	54.40	51.88	46.47	43.78
225.0	85.89	78.69	65.39	58.40	54.98	49.99	45.89	42.89	40.53
270.0	100.13	85.99	74.64	66.02	59.19	53.30	48.78	45.52	43.94
315.0	71.22	62.34	55.72	51.09	47.25	44.10	41.89	40.37	39.05
360.0	60.81	54.72	50.20	46.41	43.21	41.05	39.84	38.53	37.90

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.79	37.58	37.42	37.16	36.22	34.85	32.64	30.01	26.65
45.0	36.11	36.48	36.64	36.43	36.74	36.79	35.53	33.85	32.38
90.0	38.16	37.79	37.32	37.06	36.48	35.37	33.17	31.17	28.12
135.0	41.10	39.58	38.58	38.06	37.42	36.69	35.58	34.22	32.17
180.0	42.73	41.10	39.58	39.37	39.42	39.00	38.63	38.58	37.69
225.0	38.95	37.95	37.42	37.06	37.16	37.06	36.64	35.48	33.85
270.0	41.79	39.53	39.05	38.58	38.21	38.06	37.95	37.42	36.22
315.0	38.37	38.21	38.11	38.00	37.69	37.00	35.43	34.11	30.28
360.0	37.79	37.58	37.42	37.16	36.22	34.85	32.64	30.01	26.65

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	23.50	20.66	18.13	16.35	14.93	13.56	12.56	11.67	10.83
45.0	28.07	25.07	22.02	18.98	16.82	15.09	13.67	12.51	11.62
90.0	24.65	21.81	19.19	17.08	15.51	14.14	12.93	12.04	11.14
135.0	29.54	26.75	23.86	21.76	19.03	17.56	16.03	14.56	13.51
180.0	35.58	33.17	30.07	26.07	22.86	20.03	17.56	15.87	14.40
225.0	31.48	28.07	24.76	21.76	20.03	17.66	15.24	14.40	13.14
270.0	34.22	31.54	28.07	24.81	21.81	19.13	17.14	15.51	14.19
315.0	28.23	24.76	21.81	19.34	17.24	15.66	14.30	13.25	12.30
360.0	23.50	20.66	18.13	16.35	14.93	13.56	12.56	11.67	10.83

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.09	9.41	8.78	8.09	7.46	6.78	6.10	5.41	4.99
45.0	10.72	10.04	9.36	8.73	8.20	7.52	6.83	6.15	5.73
90.0	10.41	9.67	9.04	8.46	7.78	7.04	6.62	5.68	4.94
135.0	12.56	11.67	10.88	10.14	9.51	8.78	8.09	7.46	6.73
180.0	13.77	12.30	11.46	11.04	10.25	9.57	8.99	8.41	7.62
225.0	12.04	11.20	10.41	9.67	8.99	8.46	7.83	7.15	6.52
270.0	13.04	12.09	11.51	10.72	10.04	9.36	8.67	7.99	7.31
315.0	11.41	10.67	9.93	9.36	8.67	7.99	7.36	6.62	5.89
360.0	10.09	9.41	8.78	8.09	7.46	6.78	6.10	5.41	4.99

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.10	3.63	3.15	2.68	2.16	1.79	1.42	1.05	1.00
45.0	4.78	4.15	3.68	3.05	2.37	2.05	1.58	1.26	0.95
90.0	4.63	3.84	3.21	2.84	2.31	1.89	1.58	1.21	1.10
135.0	5.99	5.26	4.63	3.84	3.26	2.73	2.21	1.84	1.47
180.0	6.89	5.99	5.41	4.57	4.05	3.26	2.73	2.21	1.79
225.0	5.83	5.26	4.52	3.84	3.31	2.79	2.26	1.89	1.47
270.0	6.36	5.68	5.05	4.31	3.73	3.05	2.47	2.10	1.73
315.0	5.20	4.68	3.84	3.15	2.68	2.16	1.84	1.47	1.10
360.0	4.10	3.63	3.15	2.68	2.16	1.79	1.42	1.05	1.00

Intensity data(cd)

C/γ(°)	90.0
0.0	1.05
45.0	1.05
90.0	1.16
135.0	1.05
180.0	1.42
225.0	1.26
270.0	1.31
315.0	0.95
360.0	1.05