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Nata

Client:
LumCAT: 2-2521-L
Luminaire: 92.70.412.00
Report No: 2024815-B014
Ballast type: AC

Test No: 2024816-C014	Voltage(V): 34.780
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.450
Lamp flux(lm): 2535.0	Power (W): 15.650
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2287.66, Efficiency(%): 90.24% , Luminous Efficacy(lm/W): 146.18
Central intensity(cd): 3894.158, Maximum intensity(cd): 3894.158
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=47.6
[C90/270]Total=47.6
Field angle(10%Imax): [C0/180]Total=70.2
[C90/270]Total=70.2
Maximum s/h(1/2): C0_180=0.75 C90_270=0.75
Maximum s/h(1/4): C0_180=0.73 C90_270=0.73
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.24%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.969%

Nata 2-2521-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3894.159	0.000	0	0.00%	0.00%
1.0	3883.232	3.721	3.721	0.15%	0.16%
2.0	3856.346	11.109	14.83	0.44%	0.65%
3.0	3810.873	18.337	33.167	0.72%	1.45%
4.0	3744.559	25.290	58.458	1.00%	2.56%
5.0	3680.912	31.944	90.402	1.26%	3.95%
6.0	3622.062	38.379	128.781	1.51%	5.63%
7.0	3549.283	44.512	173.293	1.76%	7.58%
8.0	3476.990	50.286	223.579	1.98%	9.77%
9.0	3400.025	55.734	279.313	2.20%	12.21%
10.0	3325.301	60.862	340.175	2.40%	14.87%
11.0	3257.673	65.777	405.953	2.59%	17.75%
12.0	3177.377	70.344	476.297	2.77%	20.82%
13.0	3094.571	74.432	550.729	2.94%	24.07%
14.0	3020.537	78.273	629.002	3.09%	27.50%
15.0	2928.526	81.671	710.673	3.22%	31.07%
16.0	2846.148	84.615	795.289	3.34%	34.76%
17.0	2750.865	87.161	882.449	3.44%	38.57%
18.0	2652.041	89.082	971.531	3.51%	42.47%
19.0	2545.760	90.431	1061.962	3.57%	46.42%
20.0	2433.558	91.135	1153.098	3.60%	50.41%
21.0	2317.330	91.227	1244.324	3.60%	54.39%
22.0	2188.131	90.539	1334.863	3.57%	58.35%
23.0	2053.853	89.008	1423.872	3.51%	62.24%
24.0	1913.452	86.740	1510.611	3.42%	66.03%
25.0	1737.191	83.008	1593.619	3.27%	69.66%
26.0	1592.125	78.589	1672.208	3.10%	73.10%
27.0	1448.025	74.378	1746.586	2.93%	76.35%
28.0	1313.879	69.926	1816.511	2.76%	79.40%
29.0	1125.961	63.833	1880.344	2.52%	82.20%
30.0	981.874	56.911	1937.255	2.25%	84.68%
31.0	851.072	51.008	1988.264	2.01%	86.91%
32.0	722.912	45.093	2033.357	1.78%	88.88%
33.0	596.092	38.858	2072.215	1.53%	90.58%
34.0	495.224	33.026	2105.241	1.30%	92.03%
35.0	398.903	27.768	2133.01	1.10%	93.24%
36.0	328.181	23.150	2156.16	0.91%	94.25%
37.0	255.119	19.024	2175.184	0.75%	95.08%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	194.350	15.003	2190.187	0.59%	95.74%
39.0	158.883	12.057	2202.243	0.48%	96.27%
40.0	123.305	9.842	2212.085	0.39%	96.70%
41.0	87.582	7.510	2219.595	0.30%	97.02%
42.0	69.796	5.718	2225.313	0.23%	97.27%
43.0	57.346	4.710	2230.022	0.19%	97.48%
44.0	47.477	3.956	2233.979	0.16%	97.65%
45.0	40.401	3.377	2237.356	0.13%	97.80%
46.0	35.250	2.959	2240.314	0.12%	97.93%
47.0	31.511	2.655	2242.97	0.10%	98.05%
48.0	28.016	2.406	2245.376	0.09%	98.15%
49.0	25.394	2.193	2247.569	0.09%	98.25%
50.0	23.193	2.026	2249.595	0.08%	98.34%
51.0	21.084	1.873	2251.469	0.07%	98.42%
52.0	19.520	1.742	2253.211	0.07%	98.49%
53.0	18.055	1.635	2254.845	0.06%	98.57%
54.0	16.675	1.531	2256.376	0.06%	98.63%
55.0	15.683	1.444	2257.821	0.06%	98.70%
56.0	14.724	1.374	2259.195	0.05%	98.76%
57.0	13.804	1.304	2260.499	0.05%	98.81%
58.0	13.029	1.241	2261.74	0.05%	98.87%
59.0	12.346	1.186	2262.926	0.05%	98.92%
60.0	11.827	1.142	2264.068	0.05%	98.97%
61.0	11.833	1.129	2265.197	0.04%	99.02%
62.0	11.984	1.148	2266.345	0.05%	99.07%
63.0	12.135	1.173	2267.518	0.05%	99.12%
64.0	12.372	1.203	2268.721	0.05%	99.17%
65.0	12.424	1.227	2269.948	0.05%	99.23%
66.0	12.530	1.245	2271.193	0.05%	99.28%
67.0	12.602	1.264	2272.456	0.05%	99.34%
68.0	12.549	1.274	2273.73	0.05%	99.39%
69.0	12.378	1.272	2275.002	0.05%	99.45%
70.0	12.149	1.260	2276.262	0.05%	99.50%
71.0	11.656	1.230	2277.492	0.05%	99.56%
72.0	10.841	1.170	2278.662	0.05%	99.61%
73.0	9.816	1.080	2279.742	0.04%	99.65%
74.0	8.344	0.955	2280.697	0.04%	99.70%
75.0	7.760	0.851	2281.548	0.03%	99.73%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.728	0.769	2282.317	0.03%	99.77%
77.0	5.808	0.668	2282.985	0.03%	99.80%
78.0	5.164	0.587	2283.573	0.02%	99.82%
79.0	4.685	0.529	2284.102	0.02%	99.84%
80.0	4.297	0.484	2284.586	0.02%	99.87%
81.0	3.936	0.445	2285.031	0.02%	99.89%
82.0	3.607	0.409	2285.44	0.02%	99.90%
83.0	3.298	0.375	2285.816	0.01%	99.92%
84.0	3.009	0.344	2286.159	0.01%	99.93%
85.0	2.766	0.315	2286.474	0.01%	99.95%
86.0	2.477	0.287	2286.761	0.01%	99.96%
87.0	2.254	0.259	2287.02	0.01%	99.97%
88.0	2.017	0.234	2287.254	0.01%	99.98%
89.0	1.827	0.211	2287.464	0.01%	99.99%
90.0	1.702	0.193	2287.658	0.01%	100.00%

Zonal flux distribution table

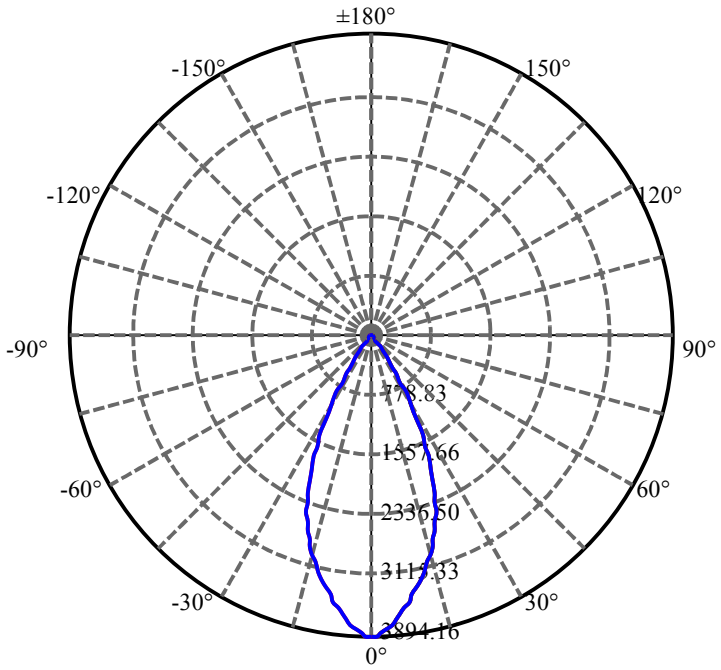
ZONAL LUMEN SUMMARY

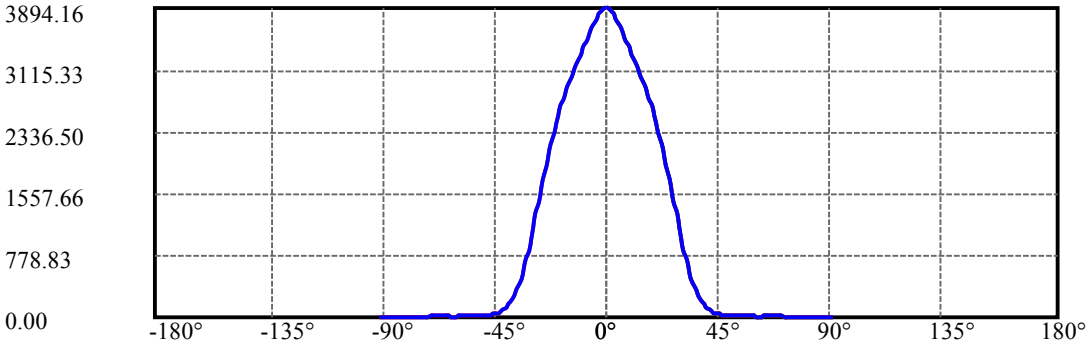
Zone	Lumens	%Lamp	%Fixt
0-30	1937.26	76.42%	84.68%
0-40	2212.09	87.26%	96.70%
0-60	2264.07	89.31%	98.97%
0-90	2287.46	90.24%	99.99%
0-120	2287.46	90.24%	99.99%
0-180	2287.66	90.24%	100.00%
60-90	23.40	0.92%	1.02%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.21	1830.13	72.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	340.18
10-20	812.92
20-30	784.16
30-40	274.83
40-50	37.51
50-60	14.47
60-70	12.19
70-80	8.32
80-90	2.88
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:35.1 Right:35.1
:C90/270Left:35.1 Right:35.1

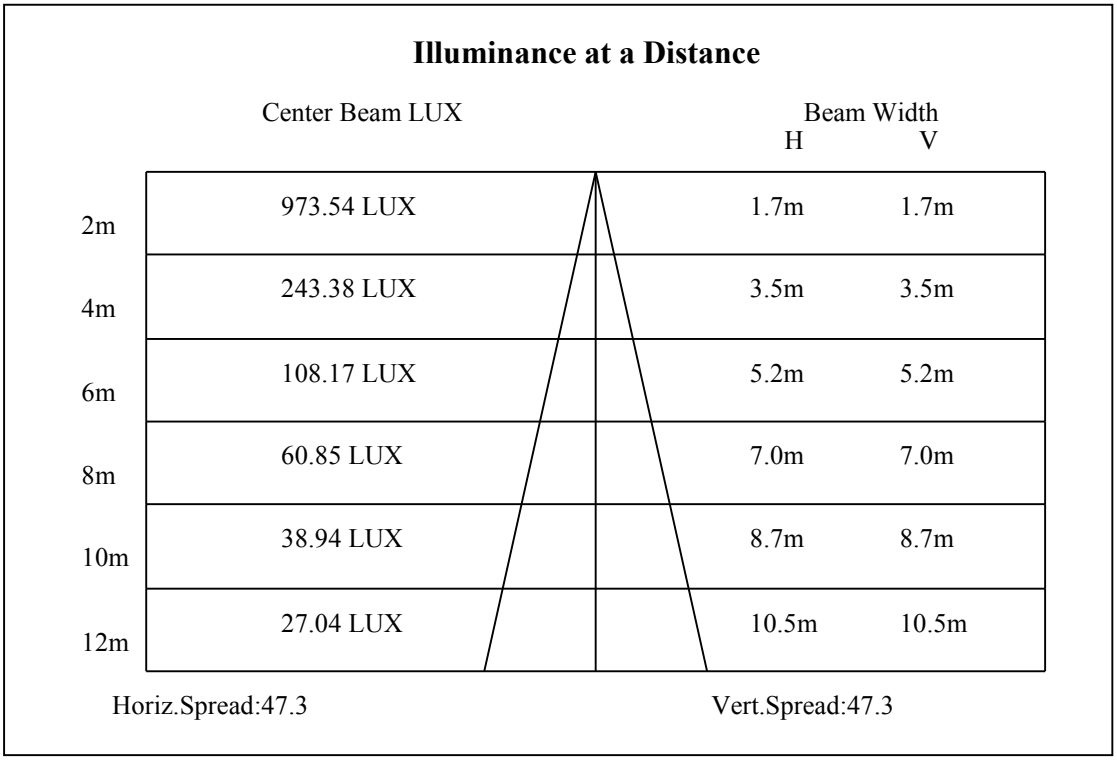
Beam Angle(50%Imax):C0/180Left:23.8 Right:23.8
:C90/270Left:23.8 Right:23.8

Equipment: GMS 1800
Temperature(°C): 25.0

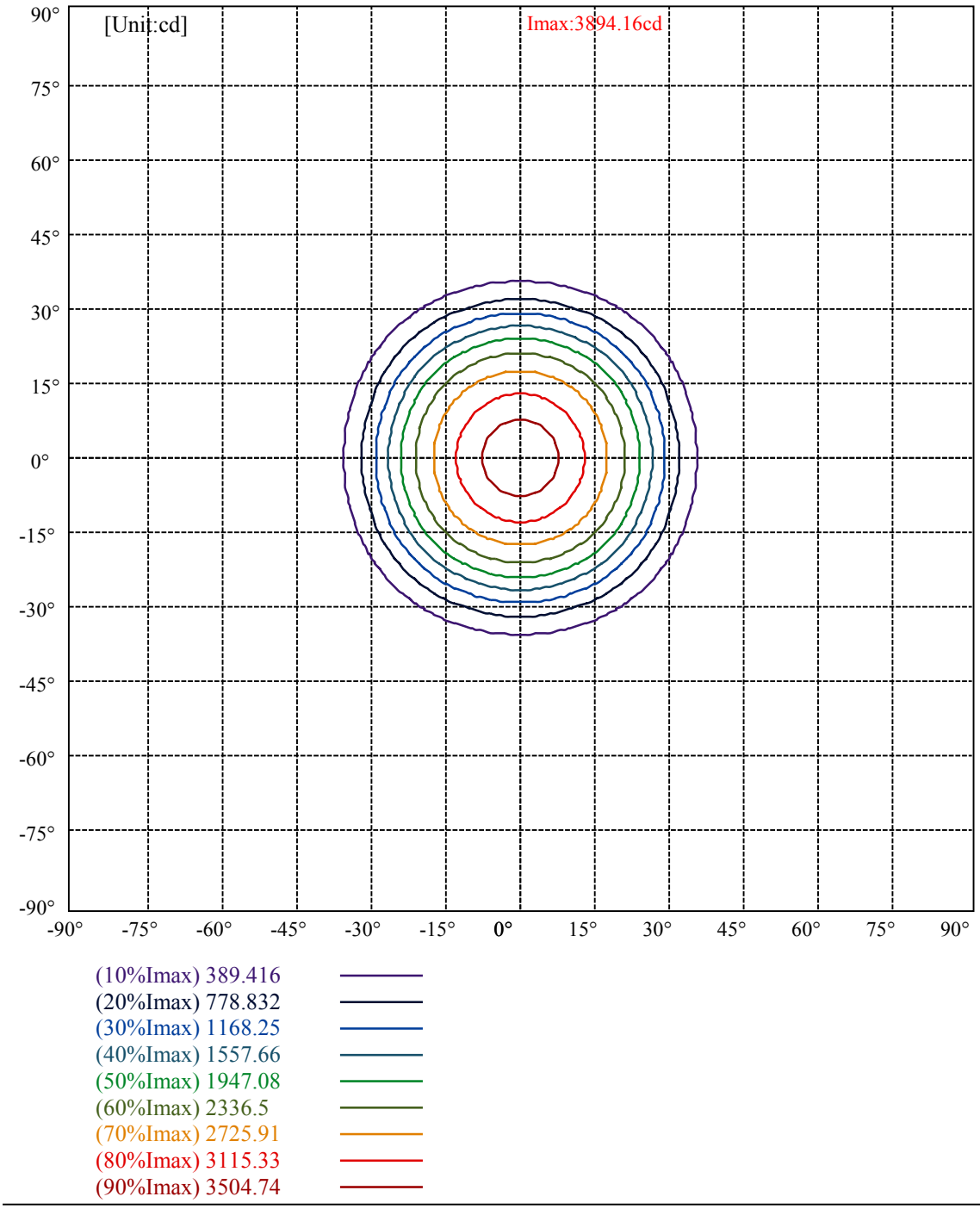
Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve



ISO-Intensity(V-H)



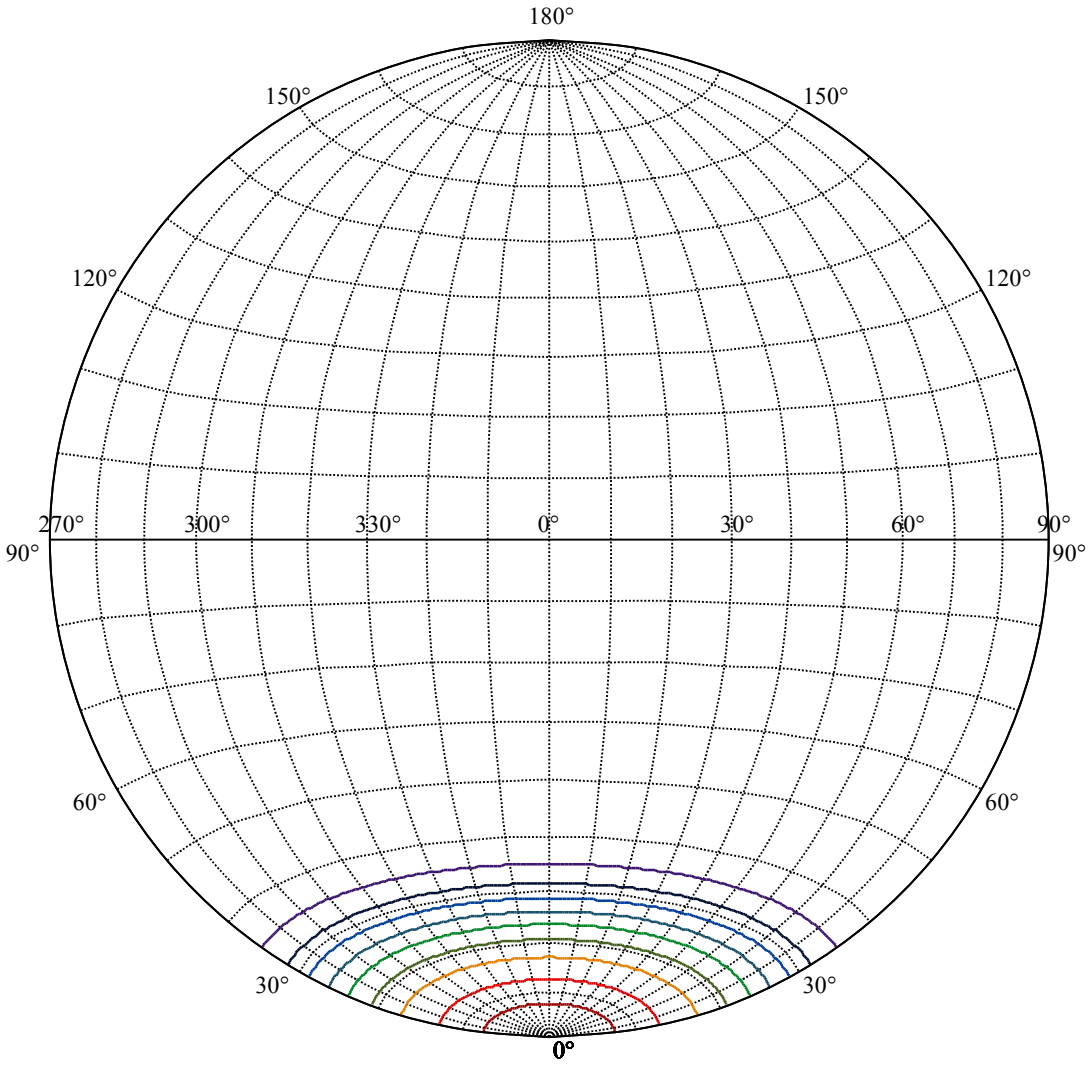
(10%Imax) 389.416
(20%Imax) 778.832
(30%Imax) 1168.25
(40%Imax) 1557.66
(50%Imax) 1947.08
(60%Imax) 2336.5
(70%Imax) 2725.91
(80%Imax) 3115.33
(90%Imax) 3504.74

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:3894.16

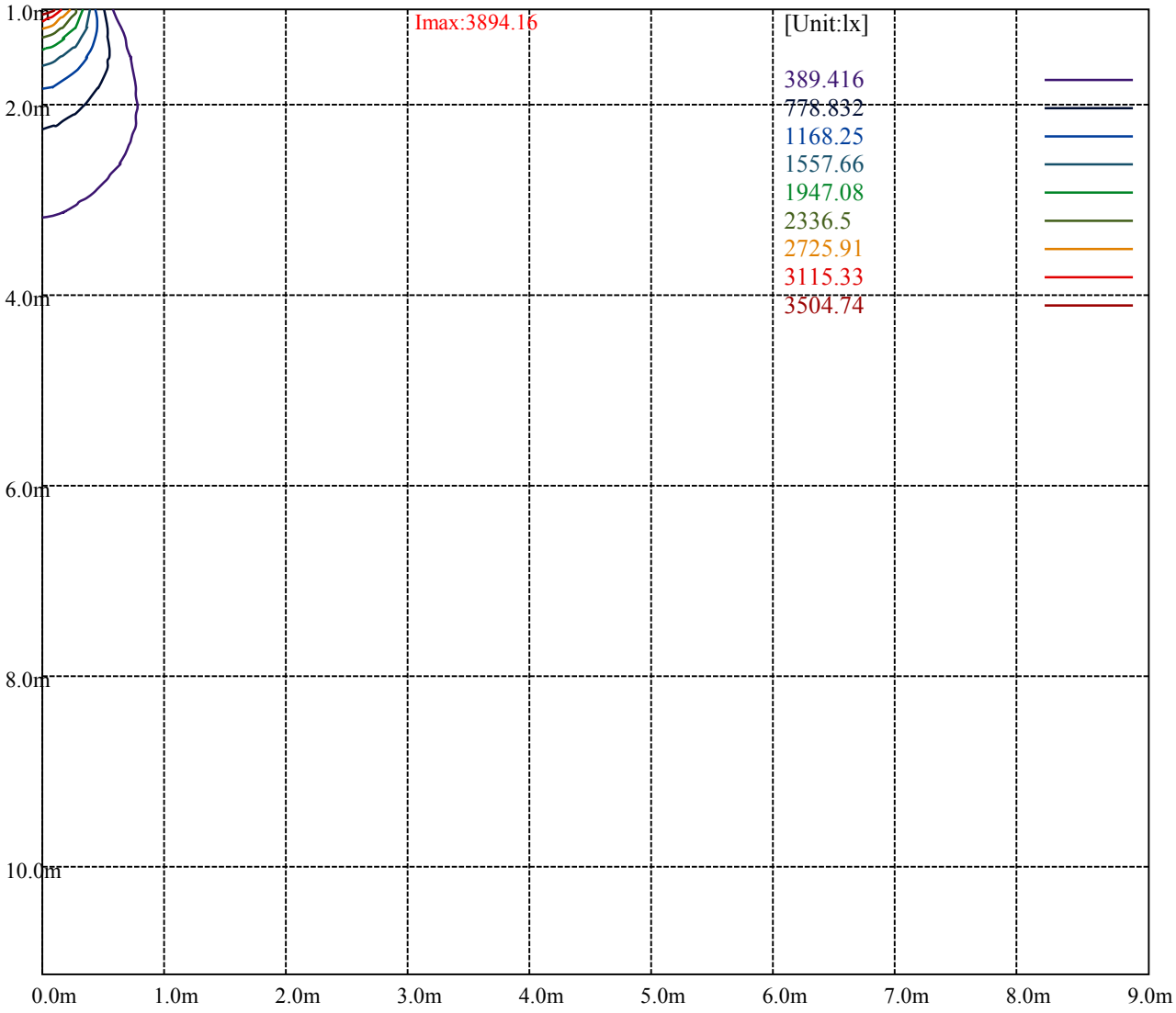
(10%Imax) 389.416
(20%Imax) 778.832
(30%Imax) 1168.25
(40%Imax) 1557.66
(50%Imax) 1947.08
(60%Imax) 2336.5
(70%Imax) 2725.91
(80%Imax) 3115.33
(90%Imax) 3504.74

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2521-L

Luminance Limitting Curve(no luminous side)

Luminance Table

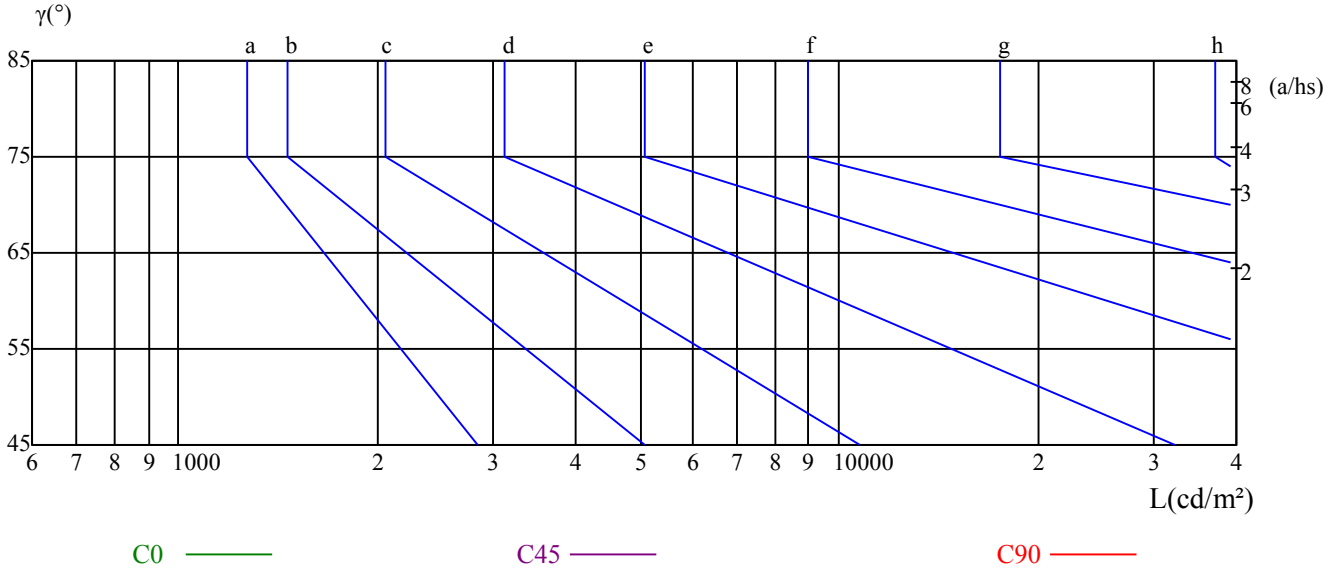
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

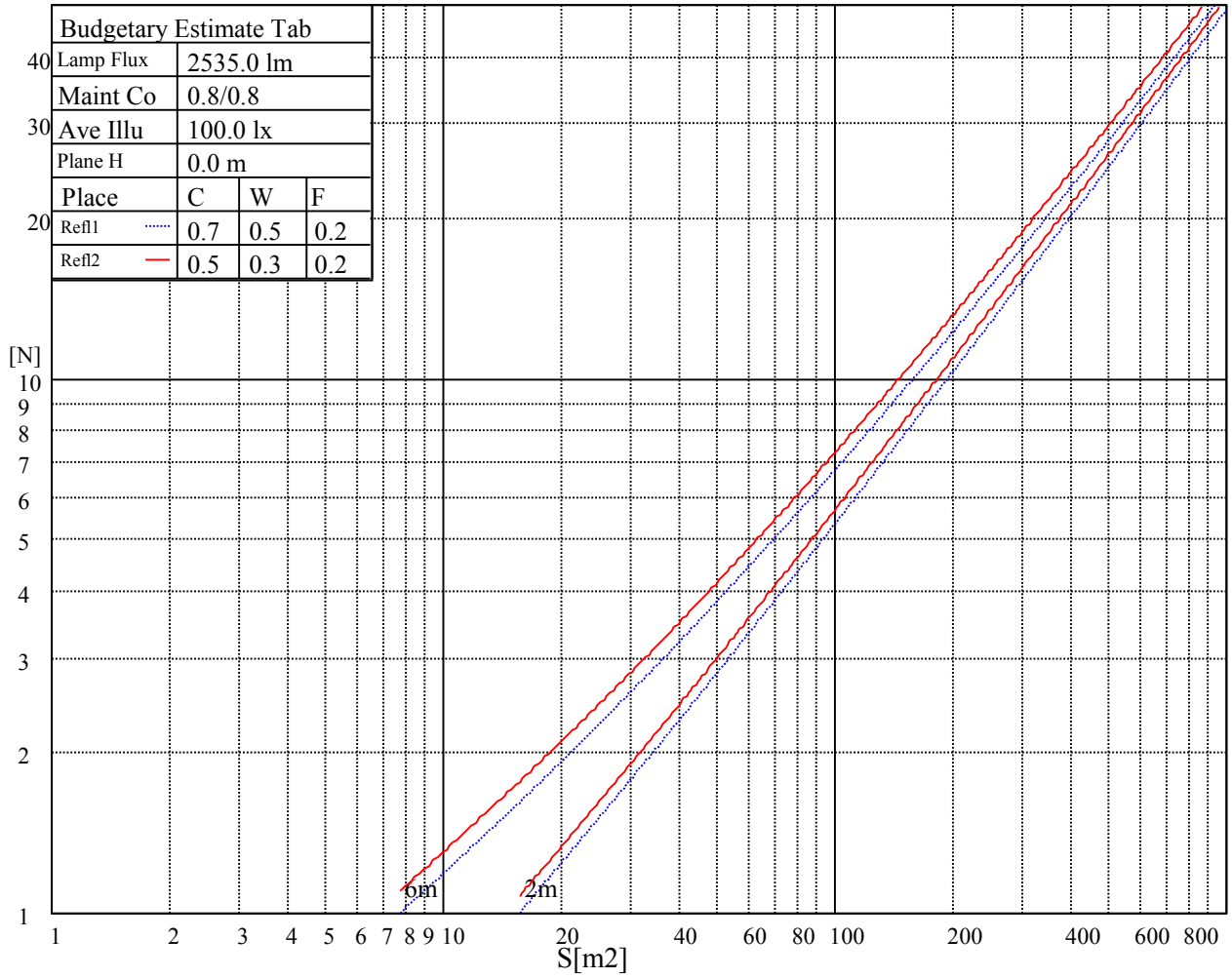
Date: 2024/8/16
Humidity(%): 60.0%

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

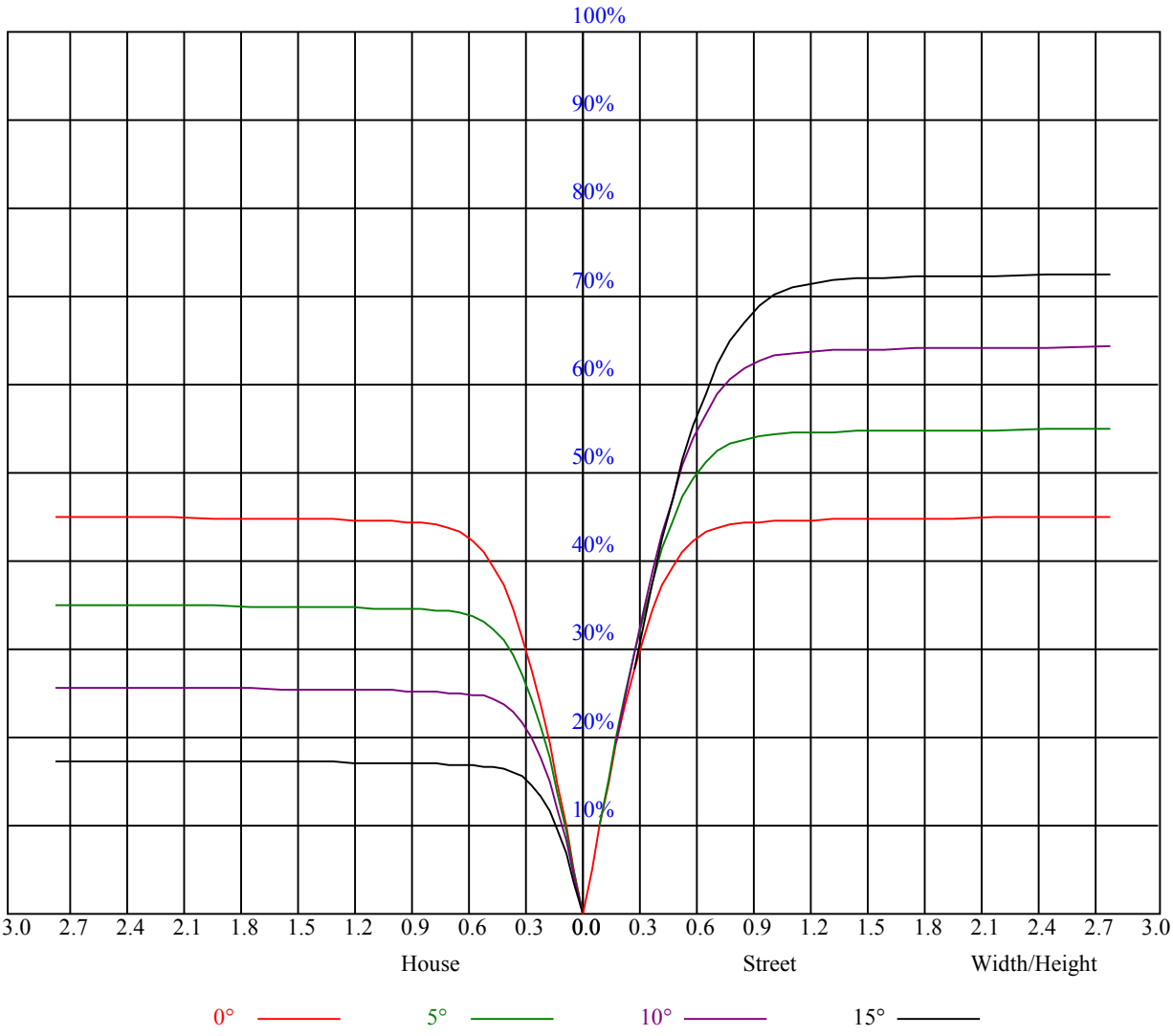
Date: 2024/8/16
Humidity(%): 60.0%

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	1.05	1.05	1.05	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	0.99	0.97	0.95	0.95	0.93	0.92	0.92	0.90	0.89	0.88	0.88	0.87	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.81	0.87	0.84	0.81	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
7	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.57	0.63	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	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.52

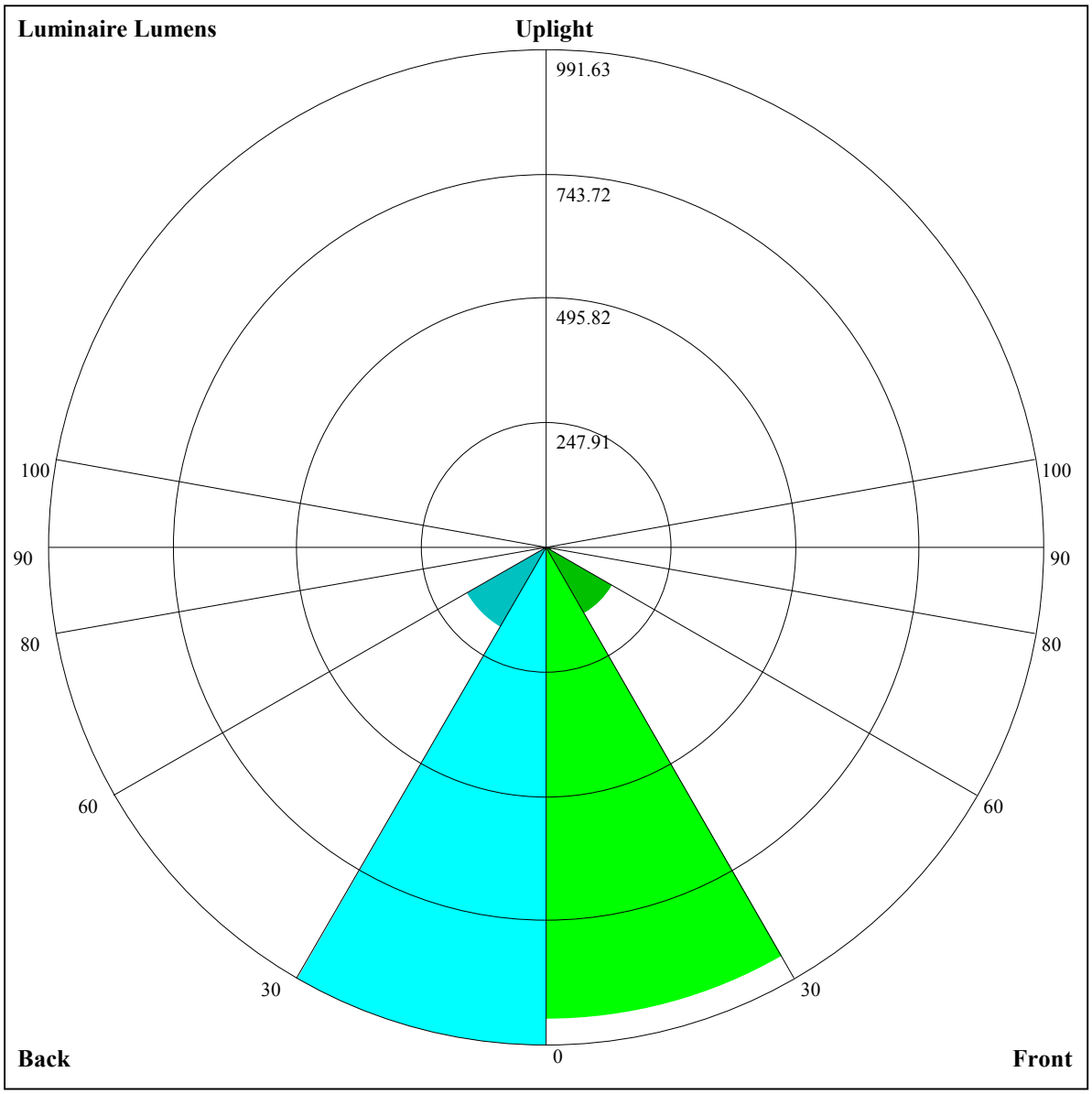
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/16
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=942.06,FM=153.98,FH=11.32,FVH=1.59
BL=991.63,BM=183.87,BH=9.62,BVH=1.5
UL=0,UH=0

BUG Rating:B2-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	3865.34	3828.02	3766.73	3677.59	3594.54	3521.00	3447.47	3383.40	3298.72
45.0	3913.23	3874.80	3819.09	3741.08	3642.48	3534.93	3493.15	3407.89	3362.79
90.0	3874.22	3813.51	3742.77	3653.04	3563.90	3510.96	3442.42	3372.25	3294.78
135.0	3923.84	3921.06	3890.94	3836.90	3757.22	3691.52	3614.62	3556.12	3478.64
180.0	3865.34	3898.19	3913.23	3906.02	3857.51	3807.94	3766.16	3672.02	3603.47
225.0	3913.23	3915.49	3908.81	3903.24	3864.76	3812.41	3748.34	3665.29	3573.93
270.0	3874.22	3913.80	3927.73	3928.31	3908.23	3887.05	3862.56	3782.87	3723.79
315.0	3923.84	3900.98	3881.48	3840.79	3767.84	3681.48	3601.79	3554.43	3479.80
360.0	3865.34	3828.02	3766.73	3677.59	3594.54	3521.00	3447.47	3383.40	3298.72

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3237.96	3157.74	3094.77	3006.73	2934.30	2878.06	2764.37	2708.65	2600.58
45.0	3306.50	3235.17	3197.27	3103.13	3006.73	2908.70	2822.34	2730.41	2616.72
90.0	3219.56	3145.50	3058.56	2986.71	2880.85	2815.62	2713.70	2605.05	2497.51
135.0	3403.42	3319.85	3245.21	3163.32	3102.03	3006.21	2929.83	2837.90	2736.51
180.0	3555.54	3479.80	3407.36	3308.18	3216.77	3132.09	3055.20	2962.16	2873.59
225.0	3480.32	3420.14	3344.92	3270.28	3181.71	3127.10	2970.52	2912.59	2821.19
270.0	3594.01	3500.40	3455.83	3398.43	3319.32	3249.68	3192.28	3117.64	3044.05
315.0	3402.90	3343.82	3257.46	3182.24	3114.85	3046.84	2979.98	2894.77	2816.77
360.0	3237.96	3157.74	3094.77	3006.73	2934.30	2878.06	2764.37	2708.65	2600.58

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2475.75	2357.11	2236.17	2116.95	1981.55	1833.91	1677.90	1513.54	1277.85
45.0	2503.08	2387.18	2260.71	2134.25	1988.81	1841.74	1687.94	1516.90	1346.97
90.0	2376.61	2246.21	2120.84	1978.77	1825.55	1667.86	1502.97	1100.24	1065.18
135.0	2654.04	2533.72	2420.03	2293.04	2171.57	2037.85	1889.62	1735.30	1575.40
180.0	2771.04	2679.69	2579.40	2480.79	2363.79	2242.32	2120.84	1988.23	1857.30
225.0	2738.19	2637.32	2534.83	2421.19	2304.71	2172.67	2045.63	1920.84	1789.91
270.0	2953.28	2866.34	2783.34	2704.18	2591.65	2471.86	2351.54	2226.71	2089.10
315.0	2744.34	2658.51	2533.14	2409.47	2277.43	2162.63	2031.17	1895.77	1735.30
360.0	2475.75	2357.11	2236.17	2116.95	1981.55	1833.91	1677.90	1513.54	1277.85

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1062.76	1062.76	871.59	725.10	619.61	501.71	402.26	319.58	249.88
45.0	1213.77	1019.92	861.13	745.23	613.19	496.72	398.69	316.74	302.29
90.0	996.11	830.49	739.97	550.70	440.16	382.08	299.97	234.06	180.39
135.0	1412.14	1242.21	1070.59	902.34	746.33	606.47	485.57	422.60	300.03
180.0	1718.01	1563.68	1398.79	1298.50	1063.92	896.19	802.05	656.61	525.68
225.0	1658.98	1505.76	1269.49	1061.55	1061.55	898.71	696.14	617.98	498.29
270.0	1944.81	1799.95	1711.33	1486.78	1318.00	1214.93	1039.95	874.48	721.26
315.0	1577.61	1486.26	1084.78	1084.78	945.81	786.49	644.10	519.74	413.40
360.0	1062.76	1062.76	871.59	725.10	619.61	501.71	402.26	319.58	249.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	194.01	148.80	113.11	86.83	68.17	55.93	47.46	41.26	36.37
45.0	276.11	150.54	115.37	88.62	68.96	55.40	45.89	38.63	35.32
90.0	138.45	106.18	82.73	65.91	54.03	45.52	38.95	33.75	29.65
135.0	300.03	285.57	151.01	116.01	90.51	71.91	58.82	49.78	43.21
180.0	416.51	326.26	295.61	281.10	149.38	116.11	91.30	73.11	60.18
225.0	393.43	308.02	238.84	183.92	141.18	108.91	85.10	67.33	54.61
270.0	583.08	463.86	364.10	300.03	300.03	158.48	121.26	93.67	73.01
315.0	323.84	251.72	194.01	148.65	114.17	88.41	69.59	61.24	47.46
360.0	194.01	148.80	113.11	86.83	68.17	55.93	47.46	41.26	36.37

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	32.48	29.22	26.44	24.02	21.76	19.92	18.40	17.40	16.03
45.0	30.70	25.55	23.71	21.29	19.34	17.71	16.35	15.24	14.24
90.0	26.44	23.81	21.55	19.82	17.98	16.82	15.40	14.14	13.61
135.0	37.95	33.75	30.59	27.91	25.44	23.50	21.97	20.50	18.82
180.0	50.78	44.15	39.89	35.37	31.59	28.38	25.70	23.50	21.66
225.0	45.78	39.47	34.69	30.80	27.75	26.18	22.86	21.66	19.87
270.0	58.24	48.30	43.78	35.64	33.11	29.38	26.39	24.02	21.81
315.0	40.84	37.74	31.43	29.28	26.18	23.65	21.60	19.71	18.40
360.0	32.48	29.22	26.44	24.02	21.76	19.92	18.40	17.40	16.03

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	14.45	13.93	12.98	12.14	11.51	11.14	10.72	10.67	11.09
45.0	13.35	12.56	11.98	11.51	11.04	10.67	10.51	11.20	13.40
90.0	13.04	12.56	12.14	11.62	11.35	11.04	11.46	14.40	16.14
135.0	17.77	16.71	15.66	14.72	13.88	12.98	12.25	11.62	11.14
180.0	20.13	18.71	17.50	16.29	15.35	14.51	13.67	12.88	12.09
225.0	17.82	17.03	15.82	14.77	13.67	12.83	12.04	11.25	10.57
270.0	19.87	18.19	16.93	15.72	14.56	13.51	12.62	11.83	11.14
315.0	16.98	15.77	14.77	13.67	12.88	12.09	11.35	10.83	10.30
360.0	14.45	13.93	12.98	12.14	11.51	11.14	10.72	10.67	11.09

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.51	11.98	12.51	13.19	13.82	14.24	14.40	13.82	12.46
45.0	15.14	17.03	17.77	18.82	19.66	20.08	20.39	20.81	21.50
90.0	17.50	18.76	19.76	20.50	20.76	20.71	20.55	20.55	19.61
135.0	11.41	11.56	11.56	11.72	11.72	11.72	11.56	11.14	10.04
180.0	11.41	10.78	10.30	9.83	9.46	9.20	8.88	8.57	8.25
225.0	9.88	9.41	8.94	8.46	8.25	7.83	7.52	7.10	6.83
270.0	10.35	9.72	9.25	8.78	8.36	8.20	7.67	7.46	7.15
315.0	9.88	9.72	9.30	8.94	8.78	8.41	8.04	7.73	7.41
360.0	11.51	11.98	12.51	13.19	13.82	14.24	14.40	13.82	12.46

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.25	10.35	9.04	7.41	6.62	5.83	5.15	4.78	4.36
45.0	21.34	19.50	12.98	14.56	11.20	8.52	6.94	5.57	4.63
90.0	16.93	13.30	11.25	9.25	7.36	5.68	4.78	4.26	3.94
135.0	9.04	8.67	8.04	6.83	6.25	5.57	4.94	4.52	4.21
180.0	7.94	7.36	6.94	6.52	5.89	5.41	4.99	4.73	4.36
225.0	6.47	6.10	5.83	5.52	5.15	4.84	4.52	4.15	3.94
270.0	6.73	6.52	6.20	5.89	5.62	5.31	4.99	4.73	4.47
315.0	7.04	6.73	6.47	6.10	5.73	5.31	4.99	4.73	4.47
360.0	11.25	10.35	9.04	7.41	6.62	5.83	5.15	4.78	4.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.99	3.68	3.31	3.00	2.79	2.52	2.37	2.10	1.79
45.0	4.05	3.78	3.42	3.15	2.94	2.73	2.52	2.31	2.16
90.0	3.63	3.26	3.05	2.94	2.73	2.47	2.21	2.05	2.05
135.0	3.94	3.47	3.21	2.89	2.73	2.47	2.21	1.94	1.68
180.0	3.99	3.68	3.36	3.10	2.73	2.37	2.16	1.94	1.73
225.0	3.68	3.31	3.10	2.73	2.42	2.16	1.89	1.68	1.47
270.0	4.10	3.84	3.47	3.10	2.89	2.47	2.31	2.00	1.79
315.0	4.10	3.84	3.47	3.15	2.89	2.63	2.37	2.10	1.94
360.0	3.99	3.68	3.31	3.00	2.79	2.52	2.37	2.10	1.79

Intensity data(cd)

C/γ(°)	90.0
0.0	1.79
45.0	2.05
90.0	2.05
135.0	1.58
180.0	1.47
225.0	1.31
270.0	1.52
315.0	1.84
360.0	1.79