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Nata

Client:
LumCAT: 2-2759-L
Luminaire: 92.70.412.00
Report No: 2024819-B014
Ballast type: AC

Test No: 2024819-C014	Voltage(V): 36.800
LampCAT: CREE CXA1830 LES14	Current(A): 0.795
Lamp flux(lm): 3681.0	Power (W): 29.250
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3430.57, Efficiency(%): 93.20% , Luminous Efficacy(lm/W): 117.28
Central intensity(cd): 7203.152, Maximum intensity(cd): 7203.152
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=37.6
[C90/270]Total=37.6
Field angle(10%Imax): [C0/180]Total=68.6
[C90/270]Total=68.6
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
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(%): 93.20%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.178%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7203.152	0.000	0	0.00%	0.00%
1.0	7190.202	6.887	6.887	0.19%	0.20%
2.0	7132.600	20.557	27.444	0.56%	0.80%
3.0	7061.430	33.947	61.392	0.92%	1.79%
4.0	6967.409	46.959	108.351	1.28%	3.16%
5.0	6834.866	59.377	167.728	1.61%	4.89%
6.0	6681.502	71.032	238.76	1.93%	6.96%
7.0	6499.320	81.813	320.573	2.22%	9.34%
8.0	6296.094	91.574	412.147	2.49%	12.01%
9.0	6071.337	100.231	512.378	2.72%	14.94%
10.0	5834.411	107.743	620.121	2.93%	18.08%
11.0	5592.532	114.179	734.3	3.10%	21.40%
12.0	5346.756	119.582	853.882	3.25%	24.89%
13.0	5089.699	123.854	977.736	3.36%	28.50%
14.0	4830.067	126.972	1104.708	3.45%	32.20%
15.0	4567.359	129.012	1233.72	3.50%	35.96%
16.0	4332.431	130.407	1364.127	3.54%	39.76%
17.0	4041.951	130.412	1494.539	3.54%	43.57%
18.0	3790.111	129.134	1623.673	3.51%	47.33%
19.0	3553.396	127.762	1751.435	3.47%	51.05%
20.0	3315.971	125.728	1877.163	3.42%	54.72%
21.0	3053.612	122.309	1999.472	3.32%	58.28%
22.0	2832.495	118.284	2117.756	3.21%	61.73%
23.0	2634.557	114.714	2232.469	3.12%	65.08%
24.0	2422.980	110.576	2343.045	3.00%	68.30%
25.0	2266.961	106.639	2449.684	2.90%	71.41%
26.0	2074.123	102.472	2552.156	2.78%	74.39%
27.0	1907.243	97.405	2649.561	2.65%	77.23%
28.0	1739.825	92.336	2741.897	2.51%	79.93%
29.0	1559.280	86.314	2828.211	2.34%	82.44%
30.0	1370.258	79.097	2907.308	2.15%	84.75%
31.0	1235.330	72.510	2979.818	1.97%	86.86%
32.0	1057.262	65.680	3045.498	1.78%	88.78%
33.0	915.350	58.114	3103.612	1.58%	90.47%
34.0	763.641	50.811	3154.423	1.38%	91.95%
35.0	630.100	43.284	3197.707	1.18%	93.21%
36.0	499.889	35.979	3233.686	0.98%	94.26%
37.0	395.697	29.209	3262.895	0.79%	95.11%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	306.623	23.443	3286.338	0.64%	95.80%
39.0	225.151	18.151	3304.489	0.49%	96.32%
40.0	188.193	14.416	3318.905	0.39%	96.74%
41.0	140.697	11.712	3330.616	0.32%	97.09%
42.0	99.816	8.738	3339.355	0.24%	97.34%
43.0	85.460	6.863	3346.218	0.19%	97.54%
44.0	74.514	6.038	3352.256	0.16%	97.72%
45.0	66.130	5.405	3357.661	0.15%	97.87%
46.0	58.955	4.892	3362.553	0.13%	98.02%
47.0	52.786	4.444	3366.997	0.12%	98.15%
48.0	47.398	4.050	3371.047	0.11%	98.26%
49.0	42.753	3.702	3374.749	0.10%	98.37%
50.0	38.745	3.398	3378.147	0.09%	98.47%
51.0	35.368	3.136	3381.282	0.09%	98.56%
52.0	32.622	2.917	3384.2	0.08%	98.65%
53.0	30.085	2.728	3386.928	0.07%	98.73%
54.0	27.963	2.559	3389.486	0.07%	98.80%
55.0	26.163	2.416	3391.902	0.07%	98.87%
56.0	24.488	2.289	3394.191	0.06%	98.94%
57.0	23.173	2.179	3396.37	0.06%	99.00%
58.0	21.886	2.084	3398.454	0.06%	99.06%
59.0	20.762	1.994	3400.448	0.05%	99.12%
60.0	19.895	1.921	3402.368	0.05%	99.18%
61.0	19.106	1.861	3404.23	0.05%	99.23%
62.0	18.160	1.796	3406.025	0.05%	99.28%
63.0	17.365	1.728	3407.753	0.05%	99.33%
64.0	16.544	1.664	3409.417	0.05%	99.38%
65.0	15.591	1.590	3411.008	0.04%	99.43%
66.0	14.849	1.519	3412.526	0.04%	99.47%
67.0	14.014	1.451	3413.978	0.04%	99.52%
68.0	13.246	1.381	3415.359	0.04%	99.56%
69.0	12.484	1.313	3416.671	0.04%	99.59%
70.0	11.721	1.243	3417.914	0.03%	99.63%
71.0	10.953	1.172	3419.086	0.03%	99.67%
72.0	10.276	1.104	3420.19	0.03%	99.70%
73.0	9.652	1.042	3421.232	0.03%	99.73%
74.0	9.054	0.983	3422.215	0.03%	99.76%
75.0	8.528	0.929	3423.144	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.924	0.873	3424.018	0.02%	99.81%
77.0	7.306	0.812	3424.83	0.02%	99.83%
78.0	6.807	0.755	3425.585	0.02%	99.85%
79.0	6.216	0.700	3426.285	0.02%	99.88%
80.0	5.637	0.639	3426.924	0.02%	99.89%
81.0	5.125	0.582	3427.506	0.02%	99.91%
82.0	4.593	0.527	3428.033	0.01%	99.93%
83.0	4.126	0.474	3428.507	0.01%	99.94%
84.0	3.633	0.423	3428.93	0.01%	99.95%
85.0	3.206	0.373	3429.303	0.01%	99.96%
86.0	2.832	0.330	3429.633	0.01%	99.97%
87.0	2.510	0.292	3429.925	0.01%	99.98%
88.0	2.129	0.254	3430.179	0.01%	99.99%
89.0	1.754	0.213	3430.392	0.01%	99.99%
90.0	1.485	0.178	3430.57	0.00%	100.00%

Zonal flux distribution table

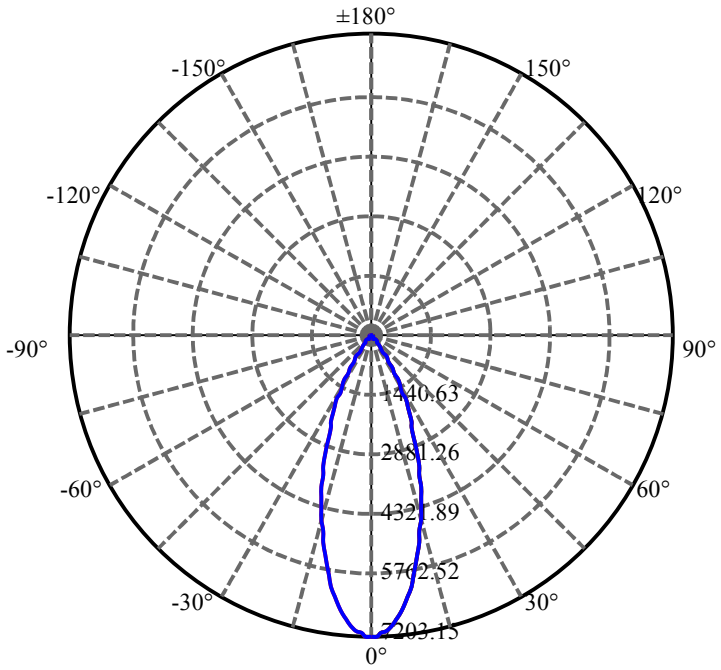
ZONAL LUMEN SUMMARY

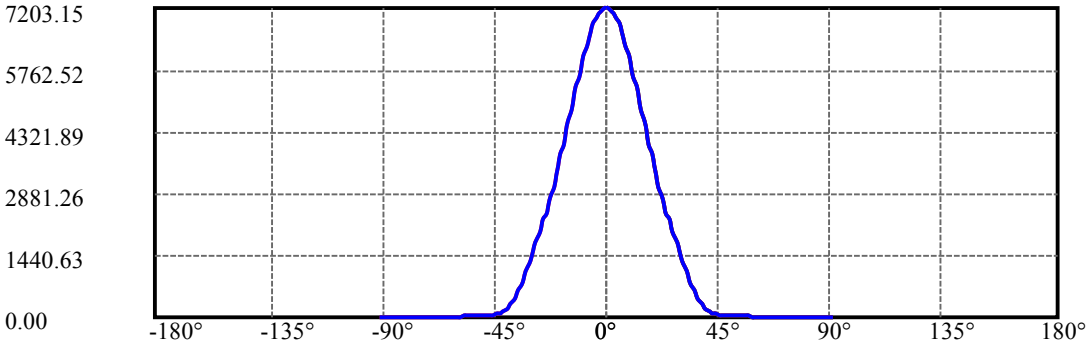
Zone	Lumens	%Lamp	%Fixt
0-30	2907.31	78.98%	84.75%
0-40	3318.90	90.16%	96.74%
0-60	3402.37	92.43%	99.18%
0-90	3430.39	93.19%	99.99%
0-120	3430.39	93.19%	99.99%
0-180	3430.57	93.20%	100.00%
60-90	28.02	0.76%	0.82%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.03	2744.46	74.56%	80.00%

ZONAL LUMEN SUMMARY

0-10	620.12
10-20	1257.04
20-30	1030.14
30-40	411.60
40-50	59.24
50-60	24.22
60-70	15.55
70-80	9.01
80-90	3.47
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):

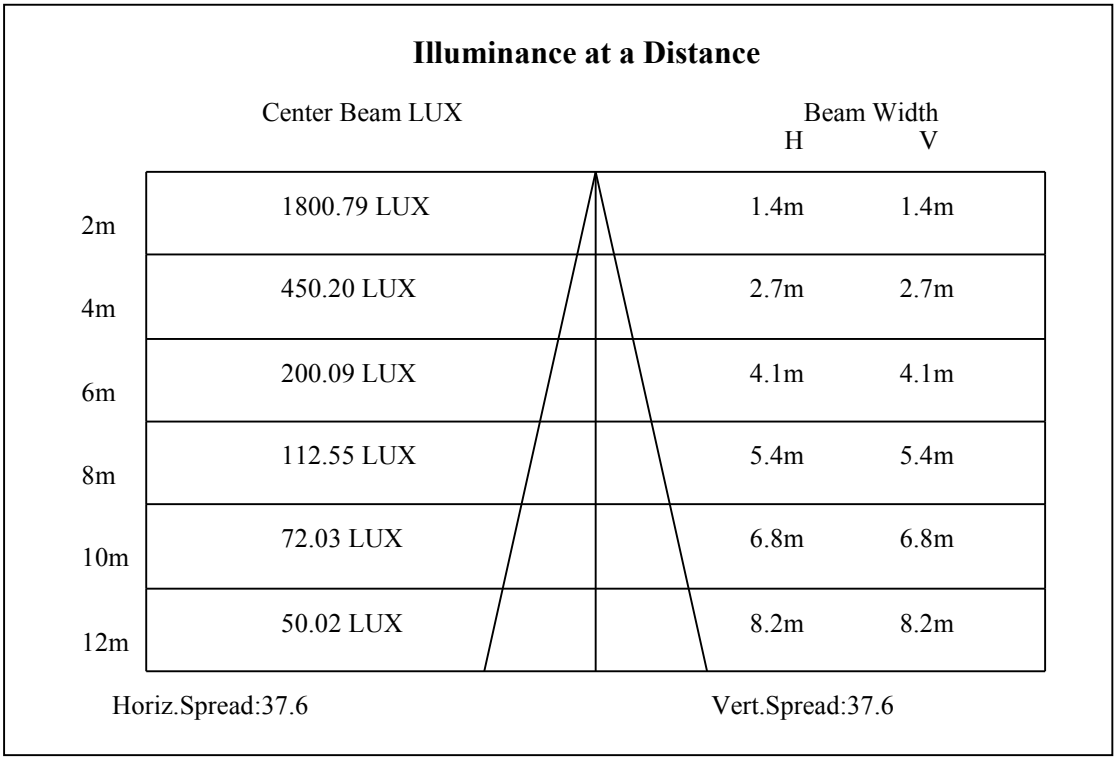
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:34.3 Right:34.3
:C90/270Left:34.3 Right:34.3

Beam Angle(50%Imax):C0/180Left:18.8 Right:18.8
:C90/270Left:18.8 Right:18.8

Lux distance Curve

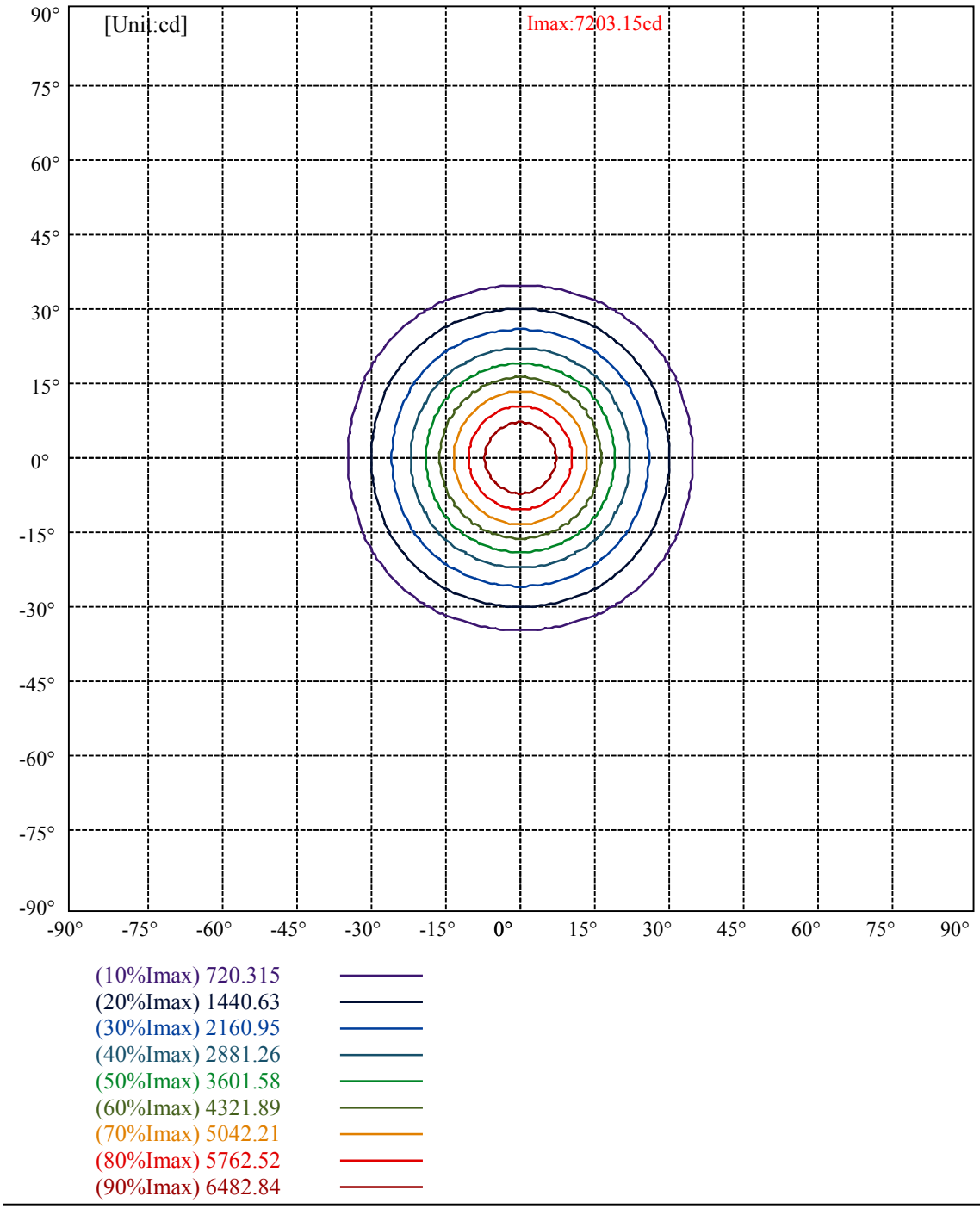


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)

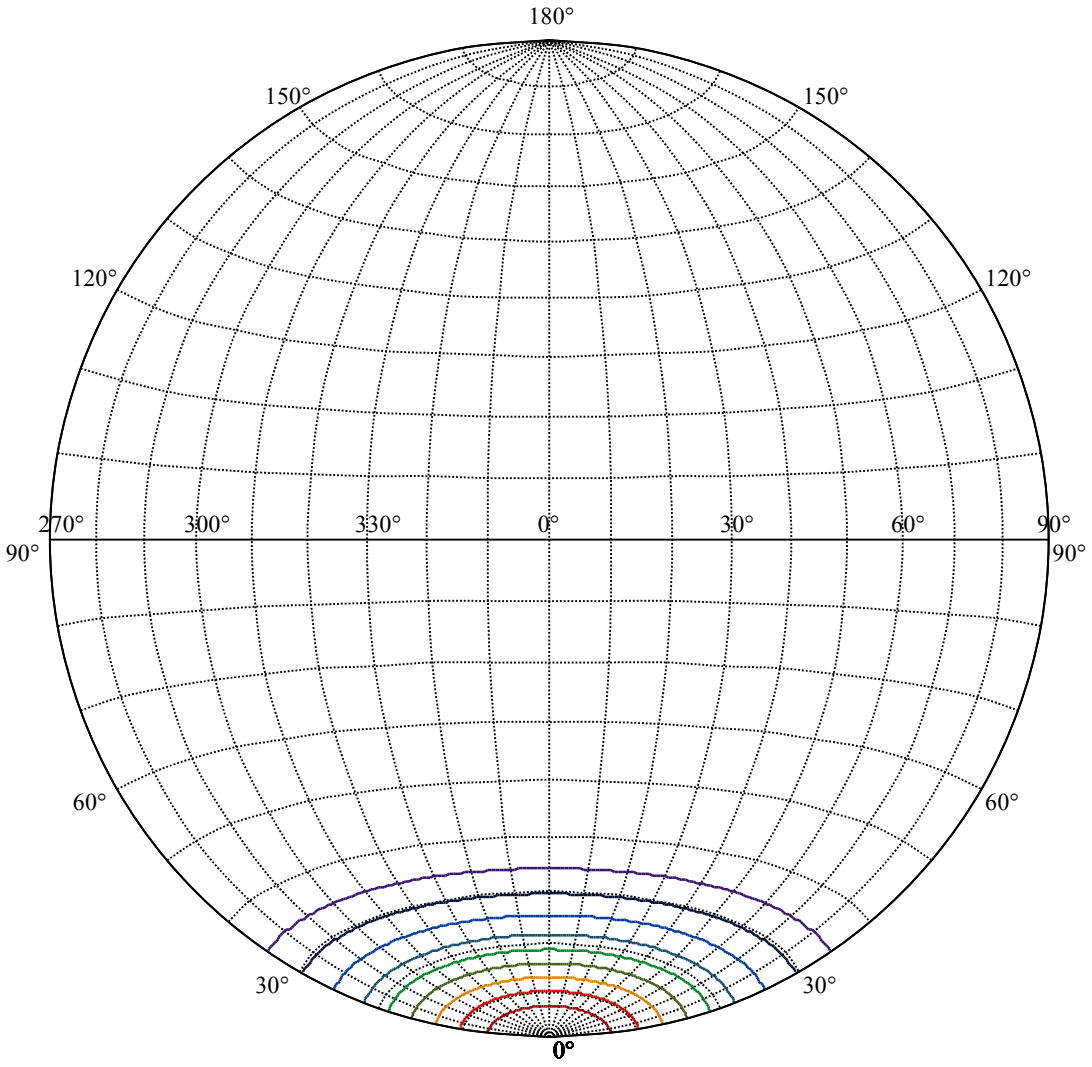


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:7203.15

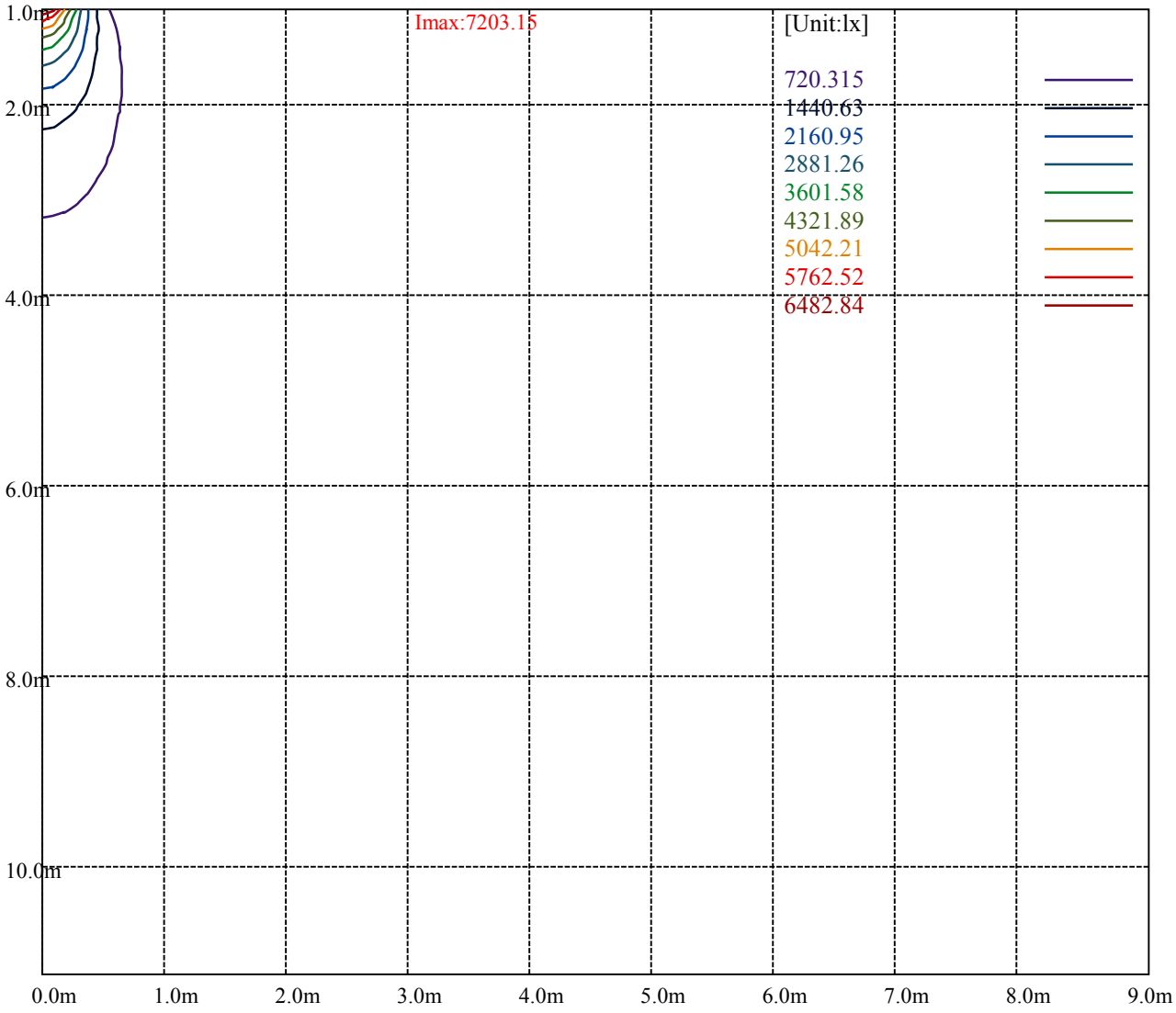
(10%Imax) 720.315
(20%Imax) 1440.63
(30%Imax) 2160.95
(40%Imax) 2881.26
(50%Imax) 3601.58
(60%Imax) 4321.89
(70%Imax) 5042.21
(80%Imax) 5762.52
(90%Imax) 6482.84

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

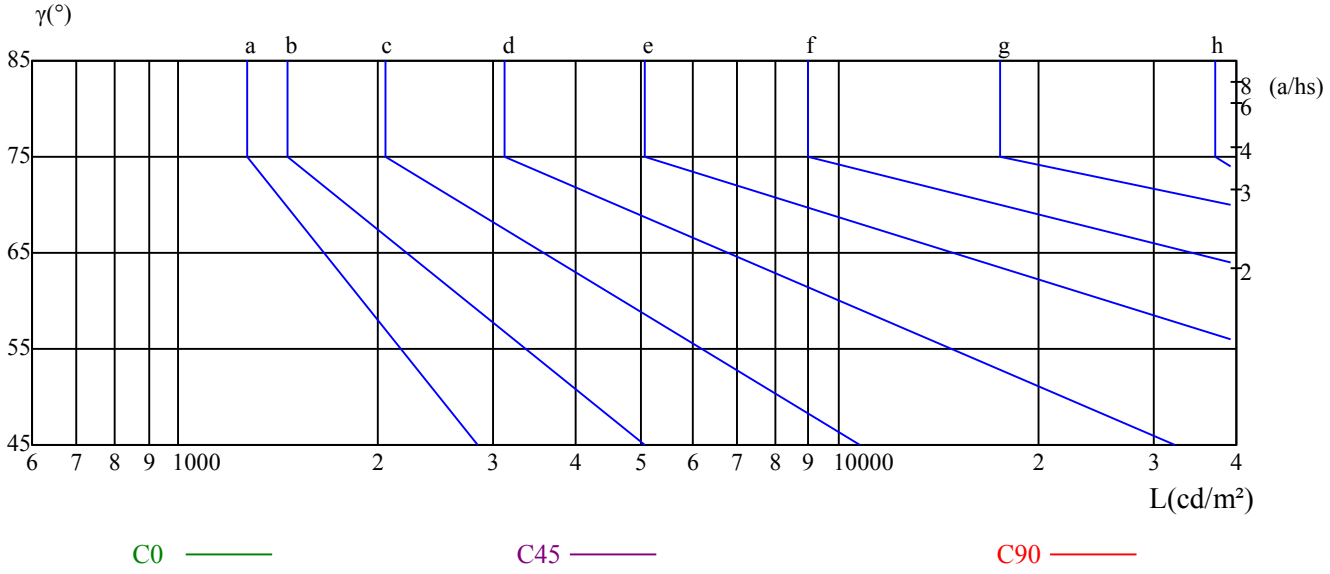
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

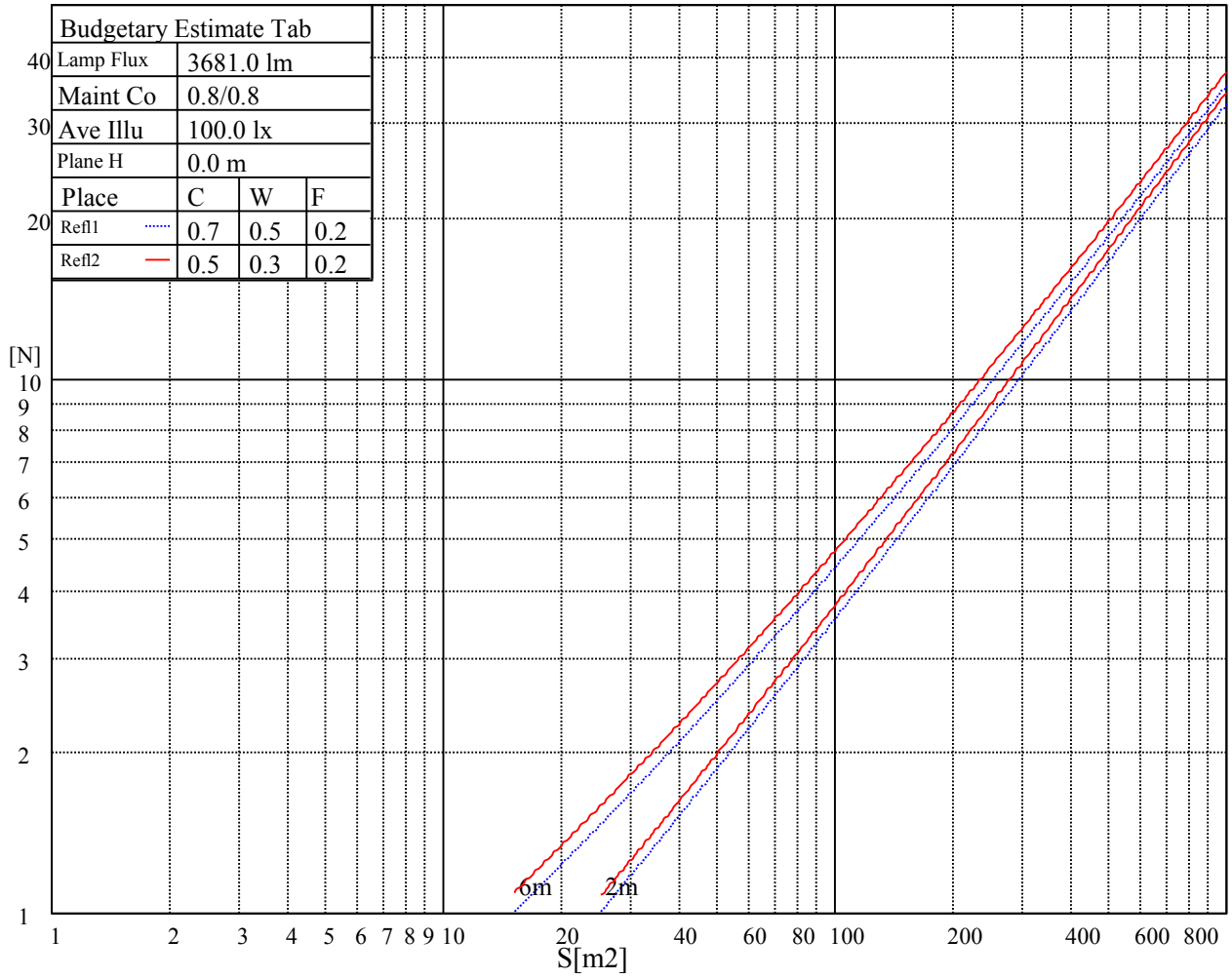
Luminance Limitting Curve



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

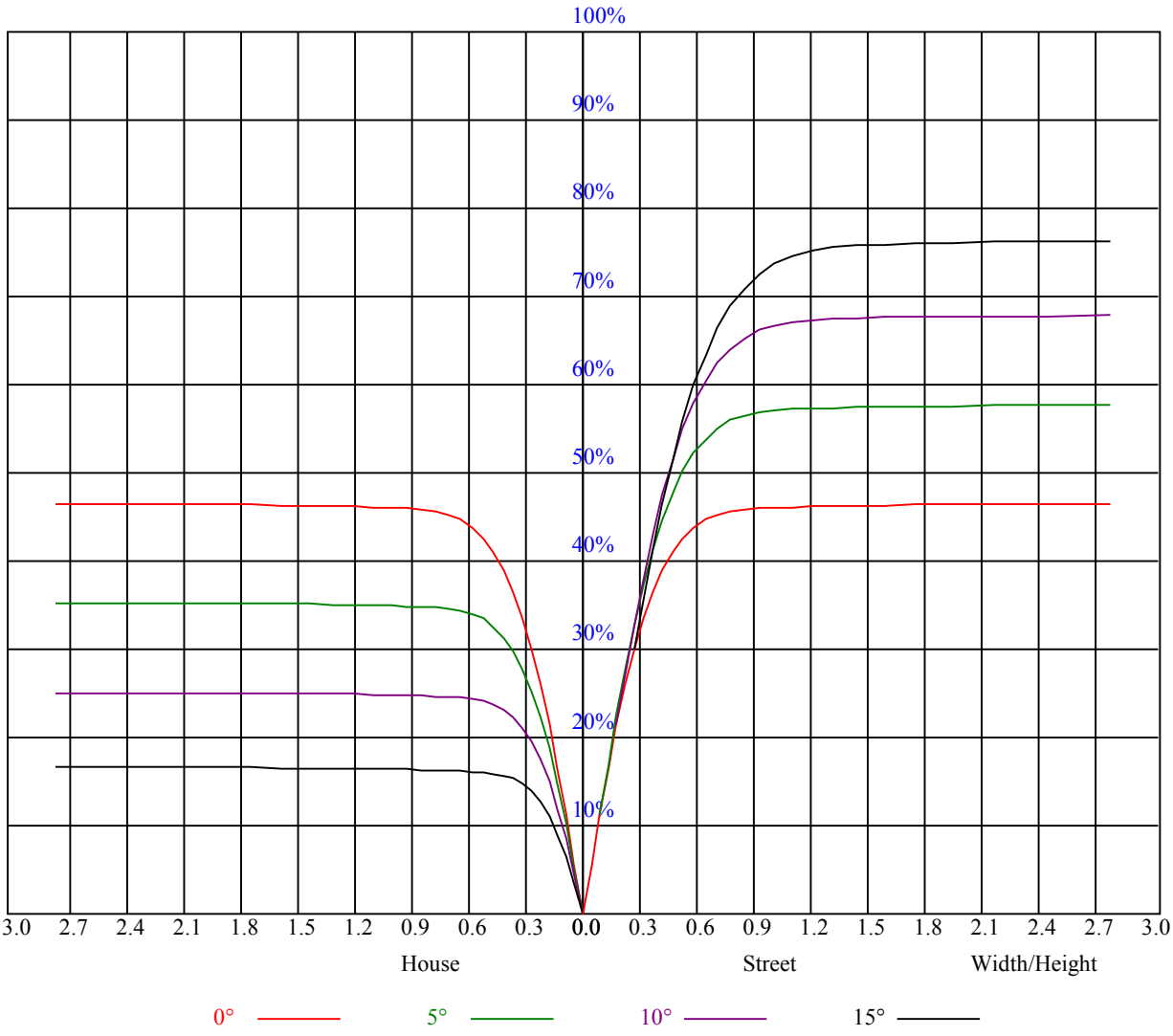


Equipment: GMS 1800	Date: 2024/8/19	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	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	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.79
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.75	0.72	0.71
6	0.79	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.67
7	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
8	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.60	0.58
10	0.65	0.61	0.58	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56

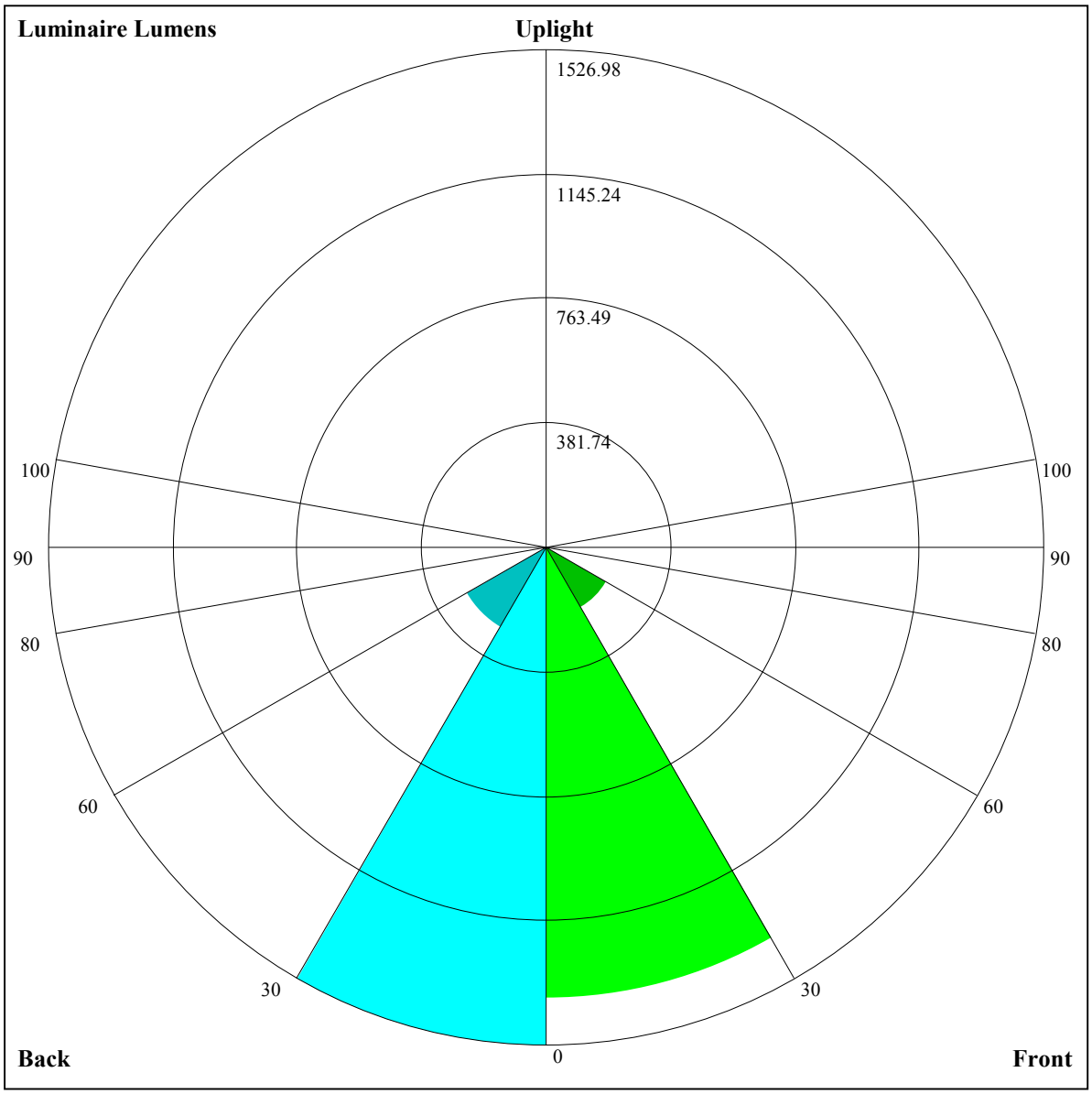
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/19
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1381.35,FM=214.99,FH=12.04,FVH=1.76
BL=1526.98,BM=282.8,BH=12.51,BVH=1.89
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	7143.66	7093.52	6896.83	6782.09	6581.51	6378.67	6171.99	5946.34	5702.87
45.0	7242.85	7190.50	7091.31	6977.09	6818.30	6616.04	6405.42	6170.89	5915.70
90.0	7188.24	7099.67	6975.41	6840.01	6752.02	6567.00	6358.07	6124.64	5888.94
135.0	7237.86	7240.64	7218.88	7147.61	7101.35	6992.13	6855.62	6697.41	6520.22
180.0	7143.66	7216.10	7247.90	7251.79	7231.71	7185.45	7102.46	6997.12	6857.83
225.0	7242.85	7264.03	7263.45	7244.53	7183.77	7098.57	7007.16	6850.05	6655.04
270.0	7188.24	7236.17	7238.38	7223.35	7170.42	7096.88	6977.62	6846.69	6692.36
315.0	7237.86	7180.98	7128.63	7024.98	6900.19	6744.19	6573.68	6361.43	6135.78
360.0	7143.66	7093.52	6896.83	6782.09	6581.51	6378.67	6171.99	5946.34	5702.87

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5454.36	5194.17	4921.16	4656.51	4400.22	4137.77	3883.74	3636.33	3395.64
45.0	5659.40	5409.79	5177.46	4940.09	4673.23	4416.93	4176.25	4030.81	3690.94
90.0	5657.14	5423.14	5175.20	4931.20	4669.34	4414.15	4166.73	3926.05	3675.91
135.0	6292.31	6064.45	5831.02	5599.22	5355.75	5091.10	4824.19	4566.79	4314.38
180.0	6705.19	6497.36	6263.93	6000.38	5726.26	5468.87	5190.28	5022.56	4637.54
225.0	6419.35	6183.14	5927.37	5668.87	5408.10	5138.46	4844.27	4544.50	4231.96
270.0	6486.21	6259.46	6034.91	5799.80	5548.50	5307.29	5043.74	4774.04	4494.93
315.0	5896.72	5643.79	5409.21	5177.98	4936.20	4665.97	4409.68	4158.38	3894.30
360.0	5454.36	5194.17	4921.16	4656.51	4400.22	4137.77	3883.74	3636.33	3395.64

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3154.96	2927.63	2713.70	2518.11	2334.25	2166.52	2004.42	1871.80	1664.55
45.0	3445.79	3302.61	3075.27	2874.12	2676.90	2494.72	2320.32	2169.31	2014.98
90.0	3435.22	3203.42	2986.13	2781.08	2586.65	2394.43	2214.46	2110.80	1934.19
135.0	4046.42	3786.23	3629.07	3254.67	3011.20	2876.38	2582.19	2456.25	2271.86
180.0	4347.81	4189.60	3909.91	3524.37	3361.63	3098.14	2861.34	2637.32	2444.00
225.0	3929.94	3643.58	3366.68	3100.35	2839.06	2601.11	2381.03	2263.50	2020.03
270.0	4274.28	3997.38	3671.44	3447.47	3181.71	2938.77	2702.55	2486.89	2289.10
315.0	3686.47	3376.72	3175.56	2928.73	2668.55	2506.39	2317.53	2139.82	1954.27
360.0	3154.96	2927.63	2713.70	2518.11	2334.25	2166.52	2004.42	1871.80	1664.55

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1521.89	1279.00	1099.98	1034.64	873.17	715.43	567.62	436.64	329.41
45.0	1874.01	1711.33	1524.15	1327.99	1135.77	951.91	785.91	631.01	490.04
90.0	1681.26	1567.57	1278.43	1039.53	969.04	799.06	645.63	504.55	380.61
135.0	2102.45	1939.24	1778.19	1609.36	1422.71	1238.85	1057.24	883.94	727.41
180.0	2270.75	2094.09	1932.51	1781.55	1636.11	1474.01	1300.71	1130.78	970.88
225.0	1924.16	1780.45	1645.57	1508.54	1355.85	1053.35	1053.35	909.17	769.30
270.0	2106.92	1945.92	1787.65	1628.86	1458.40	1290.15	1127.41	969.20	813.77
315.0	1776.51	1601.00	1427.76	1031.59	1031.59	935.35	784.92	643.84	559.37
360.0	1521.89	1279.00	1099.98	1034.64	873.17	715.43	567.62	436.64	329.41

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	250.46	194.38	154.90	126.68	105.76	90.67	83.26	69.49	64.60
45.0	361.31	314.53	314.53	134.61	110.33	94.67	82.52	72.38	64.91
90.0	278.16	198.74	147.75	118.84	107.33	87.36	80.63	71.49	60.66
135.0	577.50	447.67	329.57	329.57	284.99	123.47	97.14	88.83	76.37
180.0	813.19	663.86	525.15	399.21	311.17	311.17	149.38	117.63	99.08
225.0	630.64	495.24	364.99	250.04	178.19	116.43	100.39	86.62	74.80
270.0	667.23	581.97	394.22	278.32	278.32	193.48	112.48	96.40	84.05
315.0	420.61	269.17	221.87	163.94	129.46	108.33	92.72	80.84	71.64
360.0	250.46	194.38	154.90	126.68	105.76	90.67	83.26	69.49	64.60

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	57.24	51.20	46.10	41.68	37.95	34.80	32.38	30.12	28.12
45.0	58.08	52.14	46.68	42.10	38.06	34.74	31.96	30.70	27.86
90.0	56.77	51.20	46.36	42.10	38.48	35.22	32.43	30.17	28.44
135.0	67.54	59.92	53.51	47.67	42.63	38.27	34.59	31.33	28.49
180.0	83.94	73.59	64.76	57.19	50.78	44.99	40.16	36.06	32.54
225.0	67.02	59.87	53.77	47.99	43.26	39.32	35.95	33.17	30.80
270.0	74.85	67.02	60.29	54.51	49.36	44.84	40.79	37.37	34.59
315.0	63.60	56.71	50.83	45.94	41.52	37.79	34.69	32.06	29.86
360.0	57.24	51.20	46.10	41.68	37.95	34.80	32.38	30.12	28.12

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	26.23	24.49	23.07	21.92	20.92	20.13	19.34	18.45	17.35
45.0	25.97	24.97	22.76	21.92	20.60	19.24	18.82	17.92	17.35
90.0	26.86	25.18	23.55	22.02	20.76	19.71	18.82	18.29	17.14
135.0	26.12	24.13	22.55	21.34	20.18	19.66	18.55	18.13	17.35
180.0	29.70	27.23	25.23	23.65	22.97	21.45	20.87	20.08	19.34
225.0	28.80	27.07	25.49	24.07	22.76	21.50	20.34	19.66	18.45
270.0	32.12	30.01	28.33	27.07	25.12	23.50	22.44	21.18	20.03
315.0	27.91	26.23	24.91	23.39	21.76	20.92	19.97	19.13	18.29
360.0	26.23	24.49	23.07	21.92	20.92	20.13	19.34	18.45	17.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.61	15.51	14.45	13.82	13.04	12.35	11.72	11.09	10.35
45.0	16.66	15.72	14.72	13.82	13.04	12.51	11.98	11.35	10.72
90.0	16.61	15.51	14.09	13.46	12.62	11.93	11.35	10.83	10.20
135.0	16.40	15.98	15.45	14.88	14.19	13.46	12.67	11.93	11.14
180.0	18.61	17.87	17.14	16.35	15.66	14.82	13.88	12.83	11.83
225.0	17.56	17.08	15.87	15.30	14.35	13.51	12.56	11.62	10.72
270.0	18.98	18.13	17.29	16.35	15.30	14.19	13.19	12.35	11.46
315.0	17.50	16.56	15.72	14.82	13.93	13.19	12.51	11.77	11.20
360.0	16.61	15.51	14.45	13.82	13.04	12.35	11.72	11.09	10.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.67	8.99	8.46	7.78	7.10	6.52	5.83	5.26	4.78
45.0	10.25	9.51	8.83	8.25	7.88	6.99	6.62	5.99	5.47
90.0	9.30	8.73	8.09	7.62	6.99	6.52	5.94	5.41	4.84
135.0	10.62	10.14	9.57	9.04	8.52	7.88	7.31	6.73	6.25
180.0	11.09	10.41	9.78	9.20	8.67	8.04	7.46	6.94	6.20
225.0	10.04	9.41	8.83	8.36	7.73	7.10	6.57	6.04	5.47
270.0	10.67	10.14	9.57	9.25	8.41	7.88	7.57	6.99	6.15
315.0	10.57	9.88	9.30	8.73	8.09	7.52	7.15	6.36	5.94
360.0	9.67	8.99	8.46	7.78	7.10	6.52	5.83	5.26	4.78

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.31	3.94	3.42	3.05	2.68	2.37	2.05	1.68	1.58
45.0	4.89	4.21	3.78	3.31	2.94	2.52	2.26	1.89	1.47
90.0	4.47	3.99	3.47	3.05	2.84	2.52	2.21	1.79	1.42
135.0	5.62	5.05	4.63	4.05	3.57	3.21	2.89	2.47	2.10
180.0	5.78	5.15	4.68	4.10	3.57	3.15	2.84	2.42	2.00
225.0	4.89	4.47	3.89	3.47	3.05	2.68	2.26	2.00	1.52
270.0	5.83	5.15	4.68	4.10	3.57	3.15	2.79	2.42	2.05
315.0	5.20	4.78	4.47	3.94	3.42	3.05	2.79	2.37	1.89
360.0	4.31	3.94	3.42	3.05	2.68	2.37	2.05	1.68	1.58

Intensity data(cd)

C/γ(°)	90.0
0.0	1.52
45.0	1.47
90.0	1.37
135.0	1.37
180.0	1.73
225.0	1.37
270.0	1.58
315.0	1.47
360.0	1.52