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Nata

Client:
LumCAT: 2-2760-L
Luminaire: 92.70.412.00
Report No: 2024819-B008
Ballast type: AC

Test No: 2024819-C008	Voltage(V): 36.610
LampCAT: CREE CXA1830 LES14	Current(A): 0.795
Lamp flux(lm): 3681.0	Power (W): 29.100
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3412.84, Efficiency(%): 92.72% , Luminous Efficacy(lm/W): 117.28
Central intensity(cd): 5099.863, Maximum intensity(cd): 5101.460
Angle of maximum intensity: C=0.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=50.0
[C90/270]Total=50.0
Field angle(10%Imax): [C0/180]Total=73.2
[C90/270]Total=73.2
Maximum s/h(1/2): C0_180=0.79 C90_270=0.79
Maximum s/h(1/4): C0_180=0.78 C90_270=0.78
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.72%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.374%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5099.863	0.000	0	0.00%	0.00%
1.0	5098.122	4.880	4.88	0.13%	0.14%
2.0	5101.460	14.639	19.519	0.40%	0.57%
3.0	5098.884	24.396	43.915	0.66%	1.29%
4.0	5088.792	34.101	78.016	0.93%	2.29%
5.0	5070.901	43.706	121.723	1.19%	3.57%
6.0	5042.813	53.150	174.873	1.44%	5.12%
7.0	5006.118	62.374	237.247	1.69%	6.95%
8.0	4959.738	71.324	308.57	1.94%	9.04%
9.0	4898.661	79.897	388.467	2.17%	11.38%
10.0	4833.542	88.073	476.54	2.39%	13.96%
11.0	4759.028	95.849	572.39	2.60%	16.77%
12.0	4673.562	103.112	675.501	2.80%	19.79%
13.0	4577.662	109.789	785.29	2.98%	23.01%
14.0	4465.743	115.755	901.045	3.14%	26.40%
15.0	4337.602	120.856	1021.901	3.28%	29.94%
16.0	4202.339	125.134	1147.035	3.40%	33.61%
17.0	4025.584	128.131	1275.166	3.48%	37.36%
18.0	3851.130	129.870	1405.036	3.53%	41.17%
19.0	3674.145	130.924	1535.96	3.56%	45.01%
20.0	3462.298	130.617	1666.577	3.55%	48.83%
21.0	3275.439	129.378	1795.955	3.51%	52.62%
22.0	3089.900	127.914	1923.869	3.47%	56.37%
23.0	2896.982	125.621	2049.49	3.41%	60.05%
24.0	2716.049	122.721	2172.211	3.33%	63.65%
25.0	2554.051	119.831	2292.042	3.26%	67.16%
26.0	2378.407	116.431	2408.473	3.16%	70.57%
27.0	2223.026	112.575	2521.048	3.06%	73.87%
28.0	2055.660	108.327	2629.375	2.94%	77.04%
29.0	1883.367	103.056	2732.431	2.80%	80.06%
30.0	1666.356	95.842	2828.273	2.60%	82.87%
31.0	1446.270	86.620	2914.893	2.35%	85.41%
32.0	1275.291	77.970	2992.863	2.12%	87.69%
33.0	1096.887	69.885	3062.748	1.90%	89.74%
34.0	927.354	61.260	3124.007	1.66%	91.54%
35.0	756.624	52.298	3176.306	1.42%	93.07%
36.0	592.353	42.952	3219.257	1.17%	94.33%
37.0	453.069	34.096	3253.353	0.93%	95.33%

Nata 2-2760-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	330.888	26.167	3279.52	0.71%	96.09%
39.0	256.065	20.034	3299.555	0.54%	96.68%
40.0	189.041	15.524	3315.078	0.42%	97.14%
41.0	158.758	12.385	3327.463	0.34%	97.50%
42.0	103.252	9.519	3336.983	0.26%	97.78%
43.0	85.434	6.989	3343.972	0.19%	97.98%
44.0	71.012	5.905	3349.877	0.16%	98.16%
45.0	60.710	5.062	3354.939	0.14%	98.30%
46.0	52.234	4.417	3359.356	0.12%	98.43%
47.0	45.335	3.881	3363.237	0.11%	98.55%
48.0	39.652	3.436	3366.672	0.09%	98.65%
49.0	35.066	3.068	3369.741	0.08%	98.74%
50.0	31.354	2.769	3372.51	0.08%	98.82%
51.0	28.305	2.524	3375.034	0.07%	98.89%
52.0	25.815	2.322	3377.356	0.06%	98.96%
53.0	23.712	2.154	3379.511	0.06%	99.02%
54.0	21.978	2.014	3381.525	0.05%	99.08%
55.0	20.532	1.898	3383.422	0.05%	99.14%
56.0	19.001	1.786	3385.208	0.05%	99.19%
57.0	17.976	1.691	3386.899	0.05%	99.24%
58.0	16.827	1.609	3388.509	0.04%	99.29%
59.0	15.854	1.528	3390.036	0.04%	99.33%
60.0	14.967	1.456	3391.493	0.04%	99.37%
61.0	14.192	1.392	3392.884	0.04%	99.42%
62.0	13.377	1.328	3394.213	0.04%	99.45%
63.0	12.799	1.273	3395.486	0.03%	99.49%
64.0	12.149	1.224	3396.71	0.03%	99.53%
65.0	11.472	1.169	3397.879	0.03%	99.56%
66.0	10.959	1.119	3398.998	0.03%	99.59%
67.0	10.427	1.075	3400.073	0.03%	99.63%
68.0	9.921	1.031	3401.104	0.03%	99.66%
69.0	9.415	0.986	3402.09	0.03%	99.69%
70.0	8.962	0.944	3403.034	0.03%	99.71%
71.0	8.489	0.902	3403.936	0.02%	99.74%
72.0	8.068	0.861	3404.797	0.02%	99.76%
73.0	7.595	0.819	3405.616	0.02%	99.79%
74.0	7.175	0.776	3406.393	0.02%	99.81%
75.0	6.735	0.735	3407.128	0.02%	99.83%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.288	0.691	3407.819	0.02%	99.85%
77.0	5.788	0.644	3408.463	0.02%	99.87%
78.0	5.342	0.596	3409.059	0.02%	99.89%
79.0	4.882	0.549	3409.608	0.01%	99.91%
80.0	4.409	0.501	3410.109	0.01%	99.92%
81.0	3.995	0.454	3410.563	0.01%	99.93%
82.0	3.561	0.410	3410.973	0.01%	99.95%
83.0	3.160	0.365	3411.338	0.01%	99.96%
84.0	2.773	0.323	3411.662	0.01%	99.97%
85.0	2.411	0.283	3411.945	0.01%	99.97%
86.0	2.096	0.246	3412.191	0.01%	99.98%
87.0	1.794	0.213	3412.404	0.01%	99.99%
88.0	1.459	0.178	3412.582	0.00%	99.99%
89.0	1.143	0.143	3412.725	0.00%	100.00%
90.0	0.966	0.116	3412.84	0.00%	100.00%

Zonal flux distribution table

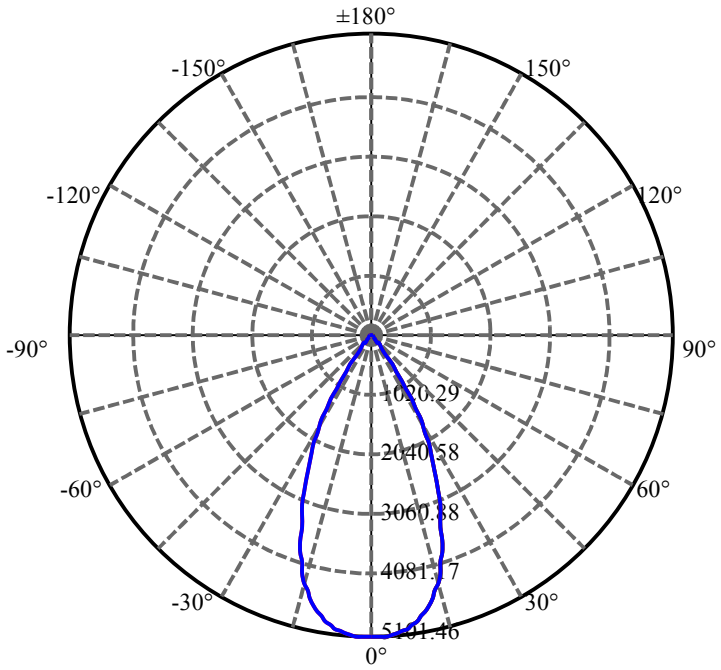
ZONAL LUMEN SUMMARY

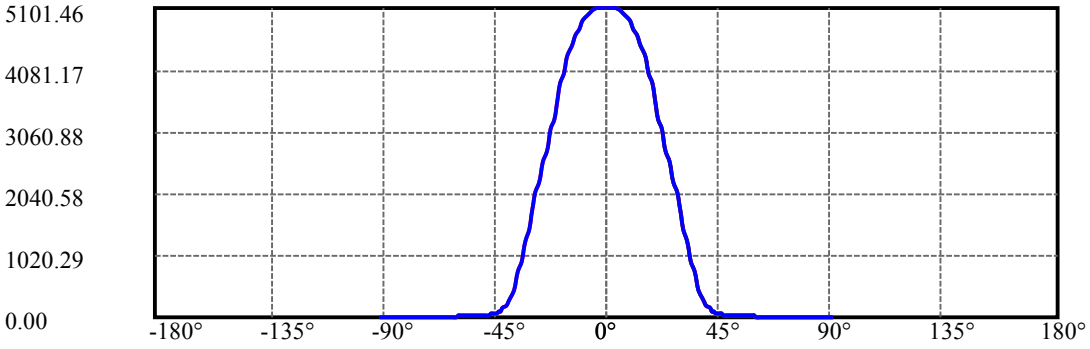
Zone	Lumens	%Lamp	%Fixt
0-30	2828.27	76.83%	82.87%
0-40	3315.08	90.06%	97.14%
0-60	3391.49	92.14%	99.37%
0-90	3412.72	92.71%	100.00%
0-120	3412.72	92.71%	100.00%
0-180	3412.84	92.72%	100.00%
60-90	21.23	0.58%	0.62%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.98	2730.27	74.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	476.54
10-20	1190.04
20-30	1161.70
30-40	486.81
40-50	57.43
50-60	18.98
60-70	11.54
70-80	7.07
80-90	2.62
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):

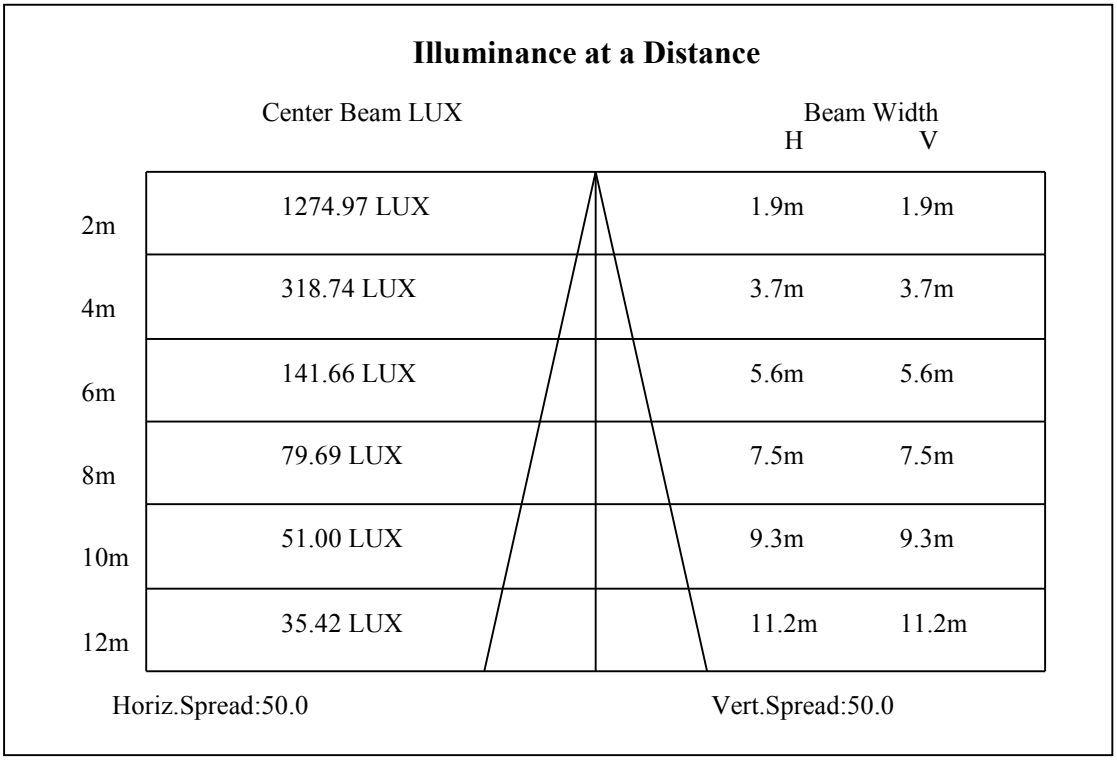
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:38.6 Right:34.6
:C90/270Left:38.6 Right:34.6

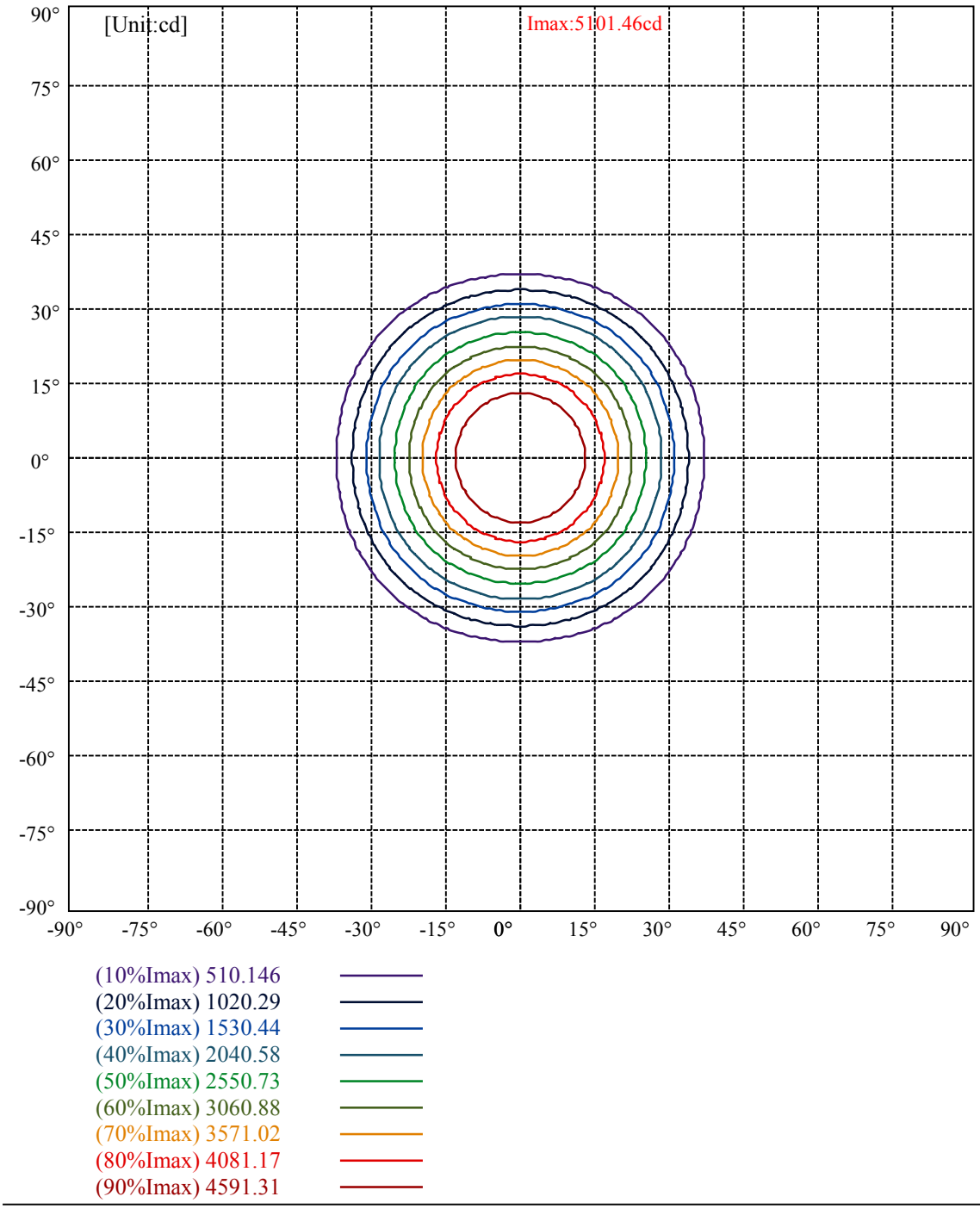
Beam Angle(50%Imax):C0/180Left:27.0 Right:23.0
:C90/270Left:27.0 Right:23.0

Lux distance Curve



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

ISO-Intensity(V-H)

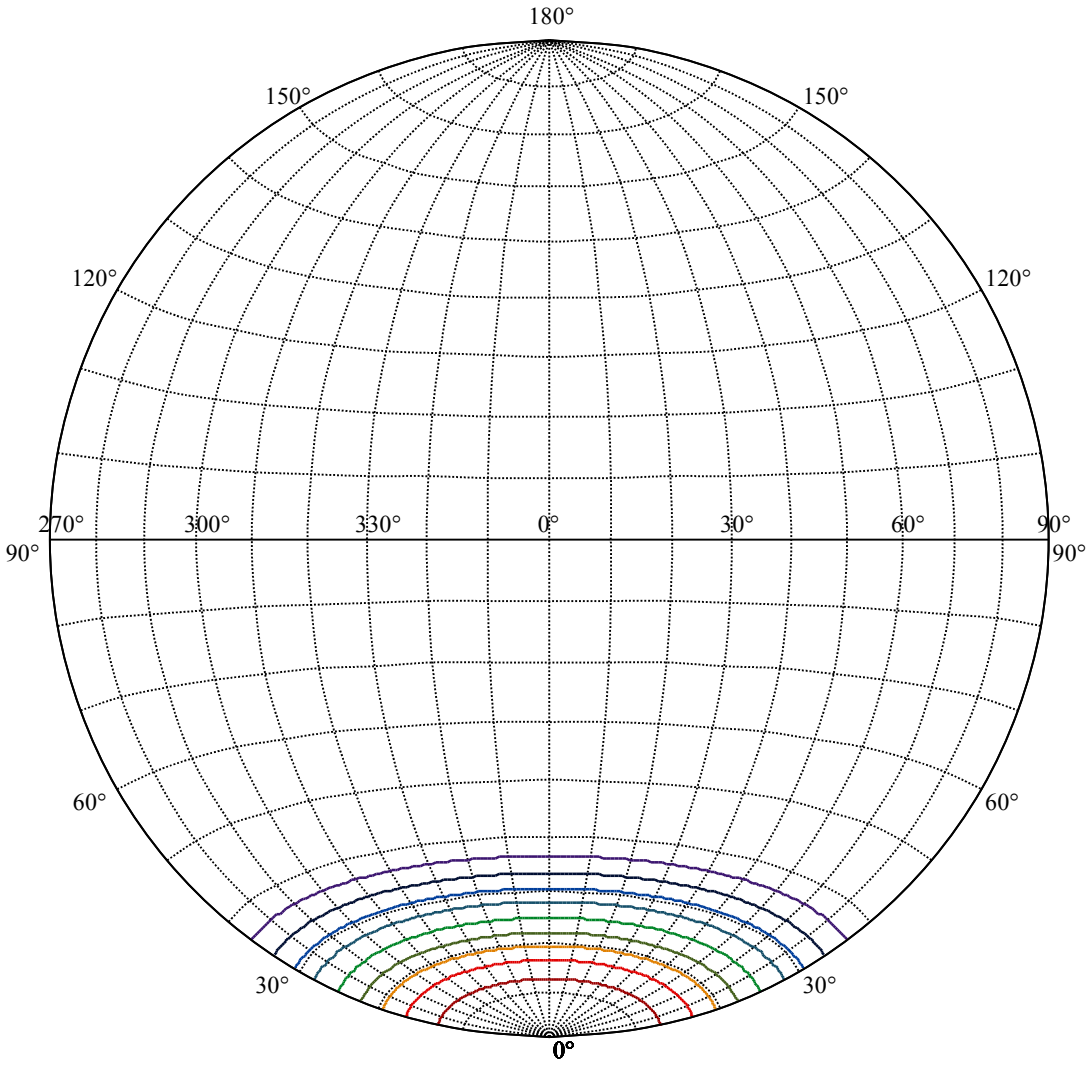


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



[Unit:cd]

Imax:5101.46

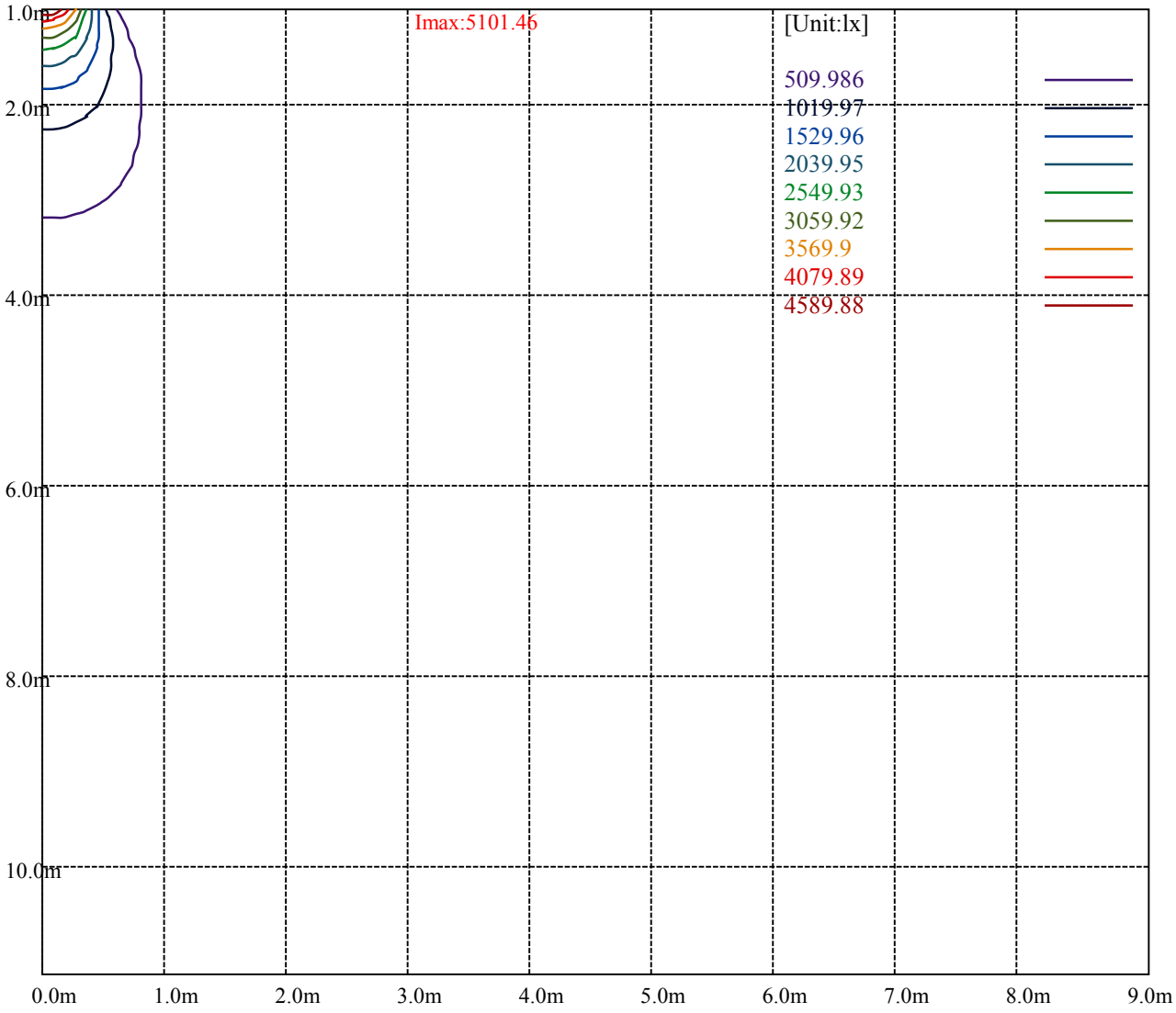
(10%Imax) 510.146
(20%Imax) 1020.29
(30%Imax) 1530.44
(40%Imax) 2040.58
(50%Imax) 2550.73
(60%Imax) 3060.88
(70%Imax) 3571.02
(80%Imax) 4081.17
(90%Imax) 4591.31

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

Nata 2-2760-L

Luminance Limitting Curve(no luminous side)

Luminance Table

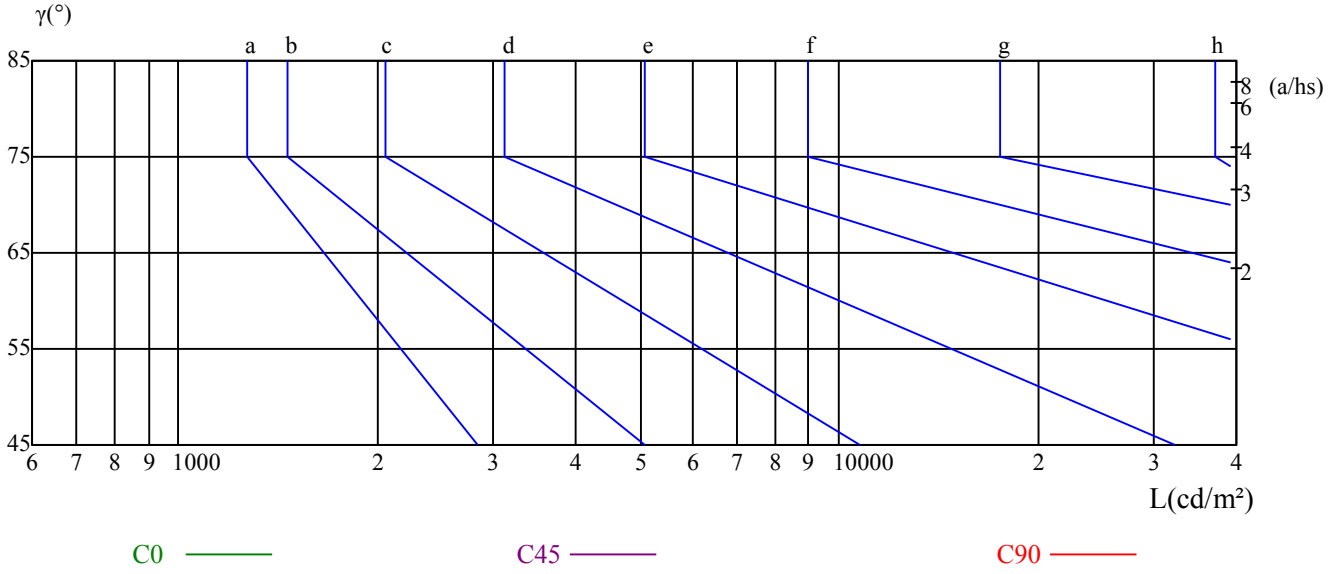
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

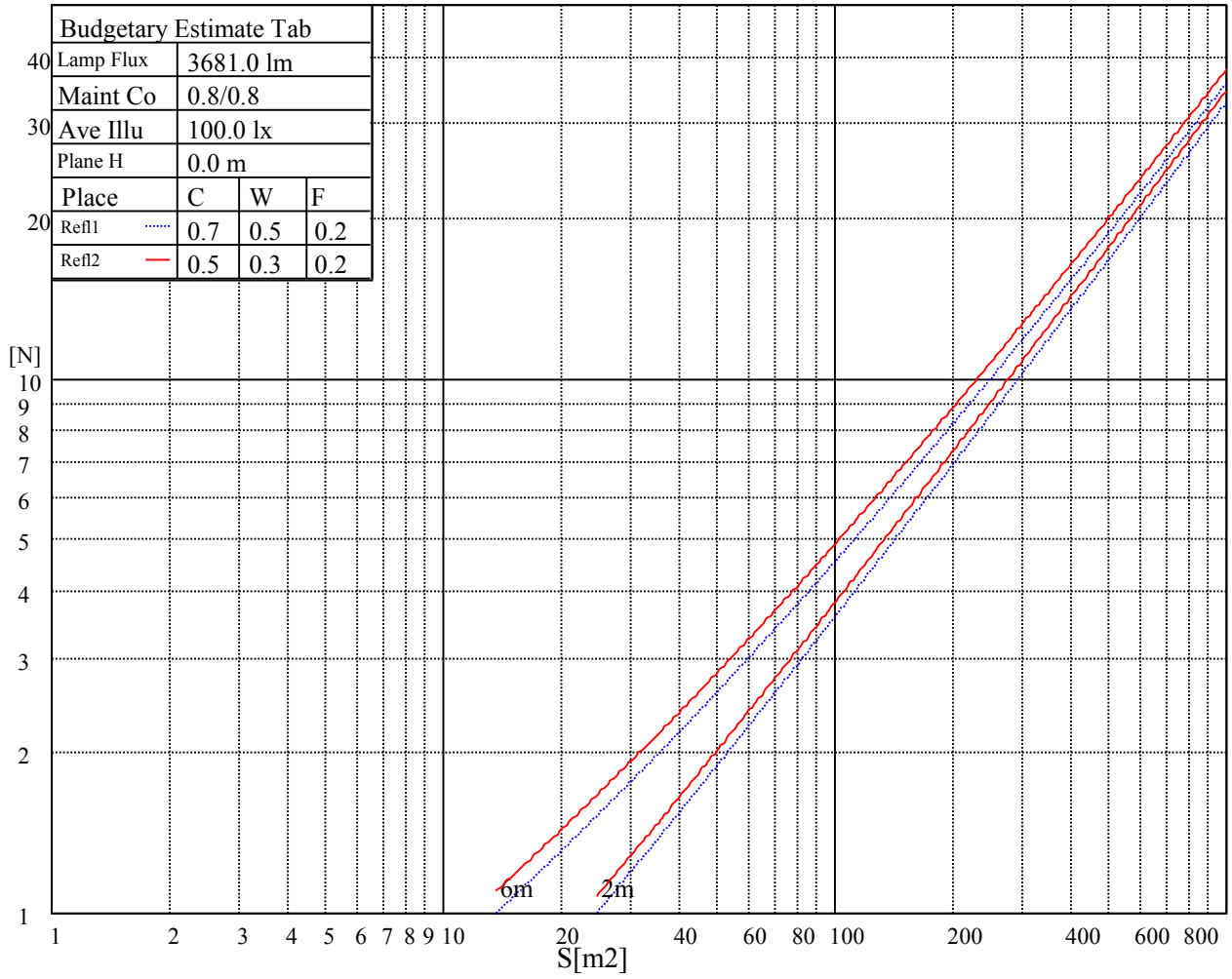
Date: 2024/8/19
Humidity(%): 60.0%

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

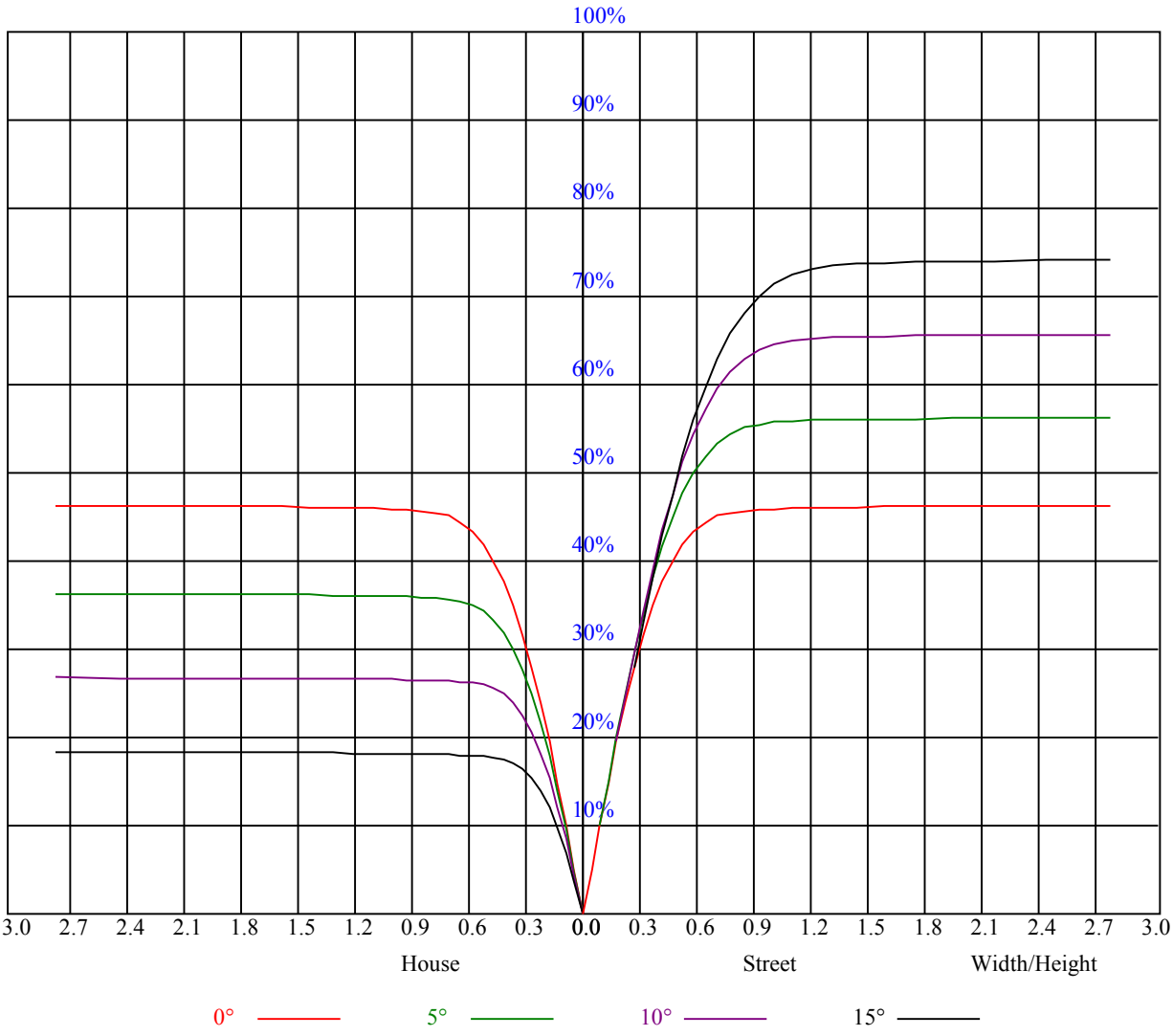


Equipment: GMS 1800	Date: 2024/8/19	Operator: NT
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.25

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.87	0.90	0.87	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.81	0.78	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.57	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53

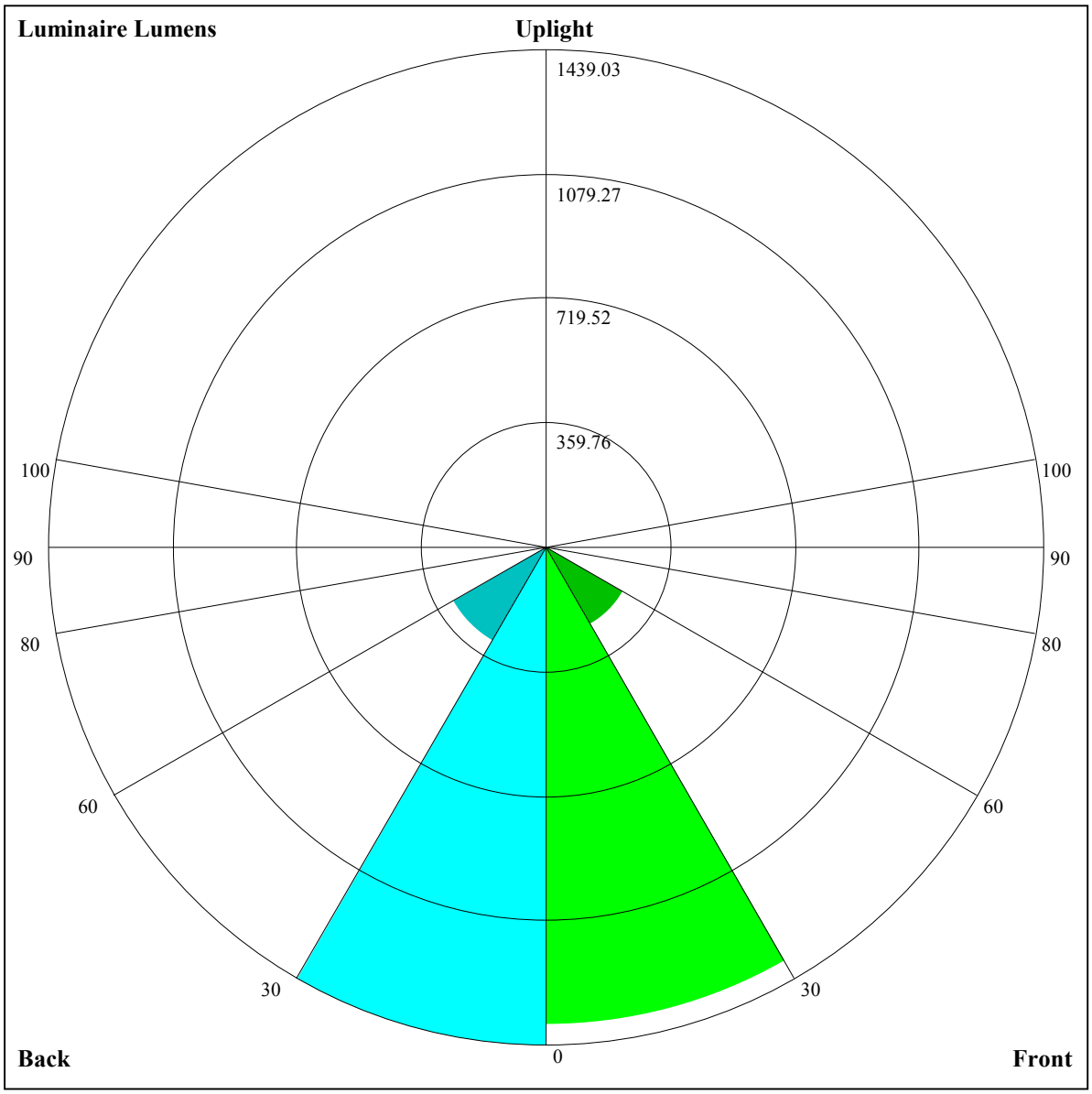
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1382.92,FM=257.52,FH=9.1,FVH=1.28
BL=1439.03,BM=312,BH=9.5,BVH=1.46
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	5112.81	5124.53	5136.20	5140.67	5132.89	5110.60	5072.12	5032.02	4972.99
45.0	5087.21	5098.88	5143.45	5168.52	5169.10	5170.78	5147.92	5111.12	5060.45
90.0	5108.92	5129.00	5151.28	5140.67	5130.10	5112.28	5057.09	4998.59	4941.77
135.0	5090.52	5089.42	5091.62	5103.92	5107.24	5092.20	5080.48	5067.71	5023.66
180.0	5112.81	5093.31	5082.16	5081.06	5063.24	5042.64	5034.80	5003.63	4982.98
225.0	5087.21	5066.55	5038.17	5038.69	5016.41	4981.35	4966.26	4922.27	4854.30
270.0	5108.92	5087.73	5083.27	5048.21	5034.80	5014.20	4985.24	4965.16	4934.51
315.0	5090.52	5095.57	5085.53	5069.34	5056.57	5043.16	4998.59	4948.44	4907.24
360.0	5112.81	5124.53	5136.20	5140.67	5132.89	5110.60	5072.12	5032.02	4972.99

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4883.27	4804.69	4722.27	4628.08	4522.79	4387.97	4228.02	4053.67	3856.41
45.0	4998.06	4924.48	4838.69	4733.41	4615.83	4481.01	4332.25	4233.59	3981.24
90.0	4878.27	4795.80	4699.98	4592.96	4471.54	4321.11	4158.96	3981.77	3791.23
135.0	4956.28	4894.99	4821.40	4733.41	4628.65	4515.54	4393.54	4253.67	4102.66
180.0	4938.98	4881.06	4814.20	4739.51	4675.43	4573.46	4457.62	4387.39	4220.82
225.0	4793.54	4742.87	4670.44	4585.18	4503.82	4418.04	4291.57	4157.85	4016.88
270.0	4878.80	4816.41	4764.05	4703.29	4626.39	4565.11	4471.54	4347.81	4208.52
315.0	4862.08	4808.05	4741.19	4672.65	4576.83	4463.71	4367.31	4202.95	4026.92
360.0	4883.27	4804.69	4722.27	4628.08	4522.79	4387.97	4228.02	4053.67	3856.41

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3636.90	3416.25	3191.70	2981.13	2781.08	2596.11	2451.25	2259.61	2037.27
45.0	3785.66	3653.04	3429.65	3202.32	2985.55	2788.34	2601.69	2426.76	2260.71
90.0	3583.97	3369.99	3165.00	2965.52	2850.73	2602.79	2444.00	2347.60	2199.95
135.0	3934.41	3750.54	3557.22	3361.63	3170.57	3054.67	2798.37	2627.86	2529.25
180.0	4068.71	3967.84	3702.66	3591.75	3408.99	3214.56	3031.28	2843.47	2671.91
225.0	3855.30	3672.02	3478.11	3293.67	3110.39	2939.87	2767.73	2667.44	2423.97
270.0	4065.92	3934.41	3714.33	3563.37	3371.15	3136.56	2981.13	2785.55	2603.37
315.0	3878.17	3629.07	3459.72	3244.10	3040.74	2842.95	2652.93	2474.12	2300.82
360.0	3636.90	3416.25	3191.70	2981.13	2781.08	2596.11	2451.25	2259.61	2037.27

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1887.94	1719.69	1544.76	1097.98	1061.76	990.01	820.71	650.41	485.99
45.0	2085.21	1891.30	1706.86	1534.72	1360.90	1184.81	1009.88	833.27	666.12
90.0	2052.88	1888.52	1710.80	1512.43	1047.68	1047.68	898.14	714.43	542.71
135.0	2360.42	2194.38	2015.56	1820.55	1617.72	1413.83	1212.14	1014.35	827.12
180.0	2515.90	2362.11	2206.10	2041.16	1855.67	1657.30	1455.04	1247.20	1046.62
225.0	2318.11	2157.06	1994.38	1805.52	1596.01	1286.78	1037.22	997.69	815.30
270.0	2428.97	2267.39	2106.92	1929.73	1736.40	1533.62	1329.67	1131.88	943.55
315.0	2134.77	1964.84	1781.55	1588.75	1294.04	1088.31	1012.30	829.59	725.57
360.0	1887.94	1719.69	1544.76	1097.98	1061.76	990.01	820.71	650.41	485.99

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	351.17	250.36	181.76	154.27	111.64	92.35	83.00	70.91	60.76
45.0	511.22	428.17	316.22	316.22	168.94	131.41	105.39	86.41	72.27
90.0	390.07	265.07	178.55	131.25	113.96	85.68	76.37	65.44	53.35
135.0	652.20	495.03	356.32	307.86	204.78	138.24	99.24	87.46	72.90
180.0	862.24	686.73	532.93	395.32	297.24	297.24	146.54	115.48	93.46
225.0	646.52	496.35	364.57	254.61	179.08	136.72	114.27	93.19	77.16
270.0	768.62	600.89	446.57	311.75	311.75	288.88	119.53	95.87	78.84
315.0	556.79	401.95	270.17	177.24	124.94	99.55	81.68	68.70	59.34
360.0	351.17	250.36	181.76	154.27	111.64	92.35	83.00	70.91	60.76

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	52.46	45.73	40.32	35.74	32.17	29.17	26.54	24.44	22.60
45.0	61.39	52.62	45.62	40.05	35.53	31.85	28.80	26.33	24.18
90.0	49.09	42.84	37.74	33.59	30.22	27.44	25.23	23.29	21.55
135.0	62.29	53.56	46.52	40.53	35.74	31.96	28.86	26.18	24.07
180.0	77.00	65.18	55.56	47.67	41.21	36.11	31.96	28.65	25.97
225.0	65.39	55.98	48.46	42.10	37.11	33.06	29.65	26.96	24.70
270.0	66.54	57.29	49.51	43.15	37.74	33.43	30.07	27.23	24.91
315.0	51.51	44.68	38.95	34.38	30.80	27.81	25.34	23.44	21.71
360.0	52.46	45.73	40.32	35.74	32.17	29.17	26.54	24.44	22.60

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.97	19.45	18.13	17.03	16.03	15.09	14.24	13.51	12.72
45.0	22.34	21.39	19.24	18.55	17.40	16.35	15.40	14.51	13.82
90.0	20.08	18.82	17.66	16.56	15.61	14.77	13.98	13.51	12.46
135.0	22.23	20.66	19.19	17.98	16.93	16.24	14.93	14.14	13.61
180.0	23.81	22.65	20.34	19.50	18.19	16.71	16.03	15.19	14.03
225.0	22.81	21.08	19.66	18.45	17.24	16.08	15.24	14.40	13.61
270.0	23.07	21.39	19.92	18.87	17.56	16.66	15.77	14.88	14.09
315.0	20.50	18.82	17.87	16.87	15.66	14.93	14.14	13.40	12.67
360.0	20.97	19.45	18.13	17.03	16.03	15.09	14.24	13.51	12.72

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.25	11.51	11.04	10.51	9.93	9.46	8.99	8.52	7.99
45.0	13.04	12.35	11.72	11.20	10.57	10.04	9.51	9.04	8.52
90.0	12.09	11.51	10.67	10.35	9.88	9.46	8.94	8.46	8.04
135.0	12.98	12.25	11.56	11.04	10.51	9.93	9.46	9.04	8.62
180.0	13.46	12.88	12.19	11.51	11.04	10.51	10.04	9.51	9.04
225.0	13.19	12.51	11.56	11.25	10.72	10.14	9.62	9.20	8.73
270.0	13.35	12.67	12.04	11.41	10.88	10.41	9.83	9.41	8.94
315.0	12.04	11.51	10.99	10.41	9.88	9.41	8.94	8.52	8.04
360.0	12.25	11.51	11.04	10.51	9.93	9.46	8.99	8.52	7.99

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.57	7.04	6.62	6.10	5.62	5.10	4.57	4.10	3.68
45.0	8.04	7.57	7.10	6.62	6.41	5.78	5.15	4.84	4.31
90.0	7.62	7.10	6.68	6.15	5.78	5.26	4.73	4.26	3.89
135.0	8.20	7.73	7.31	6.89	6.41	5.94	5.57	5.05	4.57
180.0	8.67	8.30	7.83	7.41	6.94	6.52	6.10	5.78	5.15
225.0	8.25	7.78	7.41	6.89	6.47	5.99	5.57	5.05	4.57
270.0	8.52	7.99	7.67	7.25	6.73	6.25	5.83	5.41	4.89
315.0	7.67	7.25	6.78	6.57	5.94	5.47	5.20	4.57	4.21
360.0	7.57	7.04	6.62	6.10	5.62	5.10	4.57	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	2.63	2.21	1.94	1.73	1.37	0.89	0.95
45.0	3.89	3.31	2.94	2.52	2.26	1.89	1.58	1.26	0.84
90.0	3.42	3.05	2.68	2.37	2.00	1.79	1.47	1.10	0.89
135.0	4.15	3.78	3.36	2.94	2.52	2.21	1.94	1.58	1.21
180.0	4.78	4.26	3.78	3.36	2.94	2.52	2.21	1.94	1.52
225.0	4.15	3.78	3.31	2.94	2.63	2.26	2.00	1.68	1.37
270.0	4.63	4.05	3.57	3.21	2.73	2.42	2.05	1.84	1.42
315.0	3.63	3.31	3.00	2.63	2.26	1.94	1.73	1.37	0.95
360.0	3.31	2.94	2.63	2.21	1.94	1.73	1.37	0.89	0.95

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	0.89
90.0	0.89
135.0	0.79
180.0	1.26
225.0	1.10
270.0	1.10
315.0	0.79
360.0	0.89