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

Nata

Client:
LumCAT: 2-2752-L
Luminaire: 92.70.412.00
Report No: 2024815-B011
Ballast type: AC

Test No: 2024817-C011	Voltage(V): 36.480
LampCAT: CREE CXA1830 LES14	Current(A): 0.795
Lamp flux(lm): 3731.0	Power (W): 29.000
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3435.71, Efficiency(%): 92.09% , Luminous Efficacy(lm/W): 118.47
Central intensity(cd): 12937.890, Maximum intensity(cd): 12937.890
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=53.6
[C90/270]Total=53.6
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.09%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.003%

Nata 2-2752-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12937.891	0.000	0	0.00%	0.00%
1.0	12866.157	12.347	12.347	0.33%	0.36%
2.0	12664.185	36.644	48.99	0.98%	1.43%
3.0	12135.853	59.314	108.304	1.59%	3.15%
4.0	11760.294	79.988	188.292	2.14%	5.48%
5.0	11241.962	98.955	287.246	2.65%	8.36%
6.0	10724.636	115.440	402.687	3.09%	11.72%
7.0	10083.340	129.155	531.841	3.46%	15.48%
8.0	9419.338	139.577	671.418	3.74%	19.54%
9.0	8660.618	146.528	817.947	3.93%	23.81%
10.0	7964.658	150.453	968.399	4.03%	28.19%
11.0	7324.959	152.775	1121.174	4.09%	32.63%
12.0	6592.303	152.136	1273.31	4.08%	37.06%
13.0	5882.677	148.047	1421.356	3.97%	41.37%
14.0	5263.602	142.671	1564.028	3.82%	45.52%
15.0	4639.928	135.960	1699.988	3.64%	49.48%
16.0	4103.239	128.112	1828.099	3.43%	53.21%
17.0	3631.819	120.456	1948.555	3.23%	56.71%
18.0	3210.458	112.814	2061.369	3.02%	60.00%
19.0	2856.240	105.548	2166.918	2.83%	63.07%
20.0	2609.005	100.029	2266.947	2.68%	65.98%
21.0	2393.407	96.056	2363.003	2.57%	68.78%
22.0	2177.724	91.859	2454.862	2.46%	71.45%
23.0	1914.353	85.863	2540.725	2.30%	73.95%
24.0	1746.166	80.032	2620.757	2.15%	76.28%
25.0	1593.702	75.941	2696.698	2.04%	78.49%
26.0	1437.768	71.558	2768.256	1.92%	80.57%
27.0	1261.750	66.044	2834.301	1.77%	82.50%
28.0	1151.388	61.096	2895.396	1.64%	84.27%
29.0	1053.142	57.677	2953.073	1.55%	85.95%
30.0	921.250	53.308	3006.381	1.43%	87.50%
31.0	808.720	48.143	3054.524	1.29%	88.91%
32.0	687.399	42.862	3097.386	1.15%	90.15%
33.0	585.816	37.509	3134.895	1.01%	91.24%
34.0	502.261	32.928	3167.823	0.88%	92.20%
35.0	428.325	28.901	3196.724	0.77%	93.04%
36.0	363.733	25.219	3221.943	0.68%	93.78%
37.0	308.667	21.930	3243.873	0.59%	94.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	271.223	19.356	3263.229	0.52%	94.98%
39.0	230.776	17.135	3280.364	0.46%	95.48%
40.0	199.573	15.009	3295.373	0.40%	95.92%
41.0	161.235	12.848	3308.221	0.34%	96.29%
42.0	130.966	10.616	3318.837	0.28%	96.60%
43.0	112.911	9.034	3327.871	0.24%	96.86%
44.0	95.217	7.855	3335.726	0.21%	97.09%
45.0	82.043	6.812	3342.539	0.18%	97.29%
46.0	72.103	6.028	3348.567	0.16%	97.46%
47.0	63.640	5.399	3353.966	0.14%	97.62%
48.0	57.471	4.896	3358.862	0.13%	97.76%
49.0	52.970	4.535	3363.397	0.12%	97.90%
50.0	49.146	4.258	3367.655	0.11%	98.02%
51.0	46.045	4.027	3371.682	0.11%	98.14%
52.0	43.410	3.839	3375.521	0.10%	98.25%
53.0	41.183	3.680	3379.2	0.10%	98.36%
54.0	39.212	3.543	3382.744	0.09%	98.46%
55.0	37.398	3.420	3386.164	0.09%	98.56%
56.0	35.670	3.302	3389.465	0.09%	98.65%
57.0	33.923	3.182	3392.647	0.09%	98.75%
58.0	32.306	3.063	3395.71	0.08%	98.84%
59.0	30.723	2.947	3398.657	0.08%	98.92%
60.0	28.844	2.814	3401.471	0.08%	99.00%
61.0	27.129	2.671	3404.142	0.07%	99.08%
62.0	25.467	2.534	3406.676	0.07%	99.15%
63.0	23.883	2.400	3409.076	0.06%	99.22%
64.0	22.516	2.277	3411.353	0.06%	99.29%
65.0	20.828	2.145	3413.498	0.06%	99.35%
66.0	19.310	2.003	3415.501	0.05%	99.41%
67.0	18.095	1.881	3417.382	0.05%	99.47%
68.0	16.715	1.763	3419.145	0.05%	99.52%
69.0	15.460	1.641	3420.786	0.04%	99.57%
70.0	14.212	1.524	3422.31	0.04%	99.61%
71.0	13.022	1.408	3423.718	0.04%	99.65%
72.0	11.978	1.300	3425.018	0.03%	99.69%
73.0	11.078	1.206	3426.223	0.03%	99.72%
74.0	10.138	1.115	3427.339	0.03%	99.76%
75.0	9.409	1.033	3428.371	0.03%	99.79%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.581	0.955	3429.326	0.03%	99.81%
77.0	7.891	0.878	3430.205	0.02%	99.84%
78.0	7.188	0.807	3431.012	0.02%	99.86%
79.0	6.491	0.735	3431.747	0.02%	99.88%
80.0	5.841	0.665	3432.412	0.02%	99.90%
81.0	5.171	0.596	3433.007	0.02%	99.92%
82.0	4.547	0.527	3433.534	0.01%	99.94%
83.0	3.909	0.460	3433.994	0.01%	99.95%
84.0	3.377	0.397	3434.391	0.01%	99.96%
85.0	2.838	0.339	3434.73	0.01%	99.97%
86.0	2.352	0.284	3435.014	0.01%	99.98%
87.0	1.919	0.234	3435.247	0.01%	99.99%
88.0	1.544	0.190	3435.437	0.01%	99.99%
89.0	1.229	0.152	3435.589	0.00%	100.00%
90.0	1.038	0.124	3435.713	0.00%	100.00%

Zonal flux distribution table

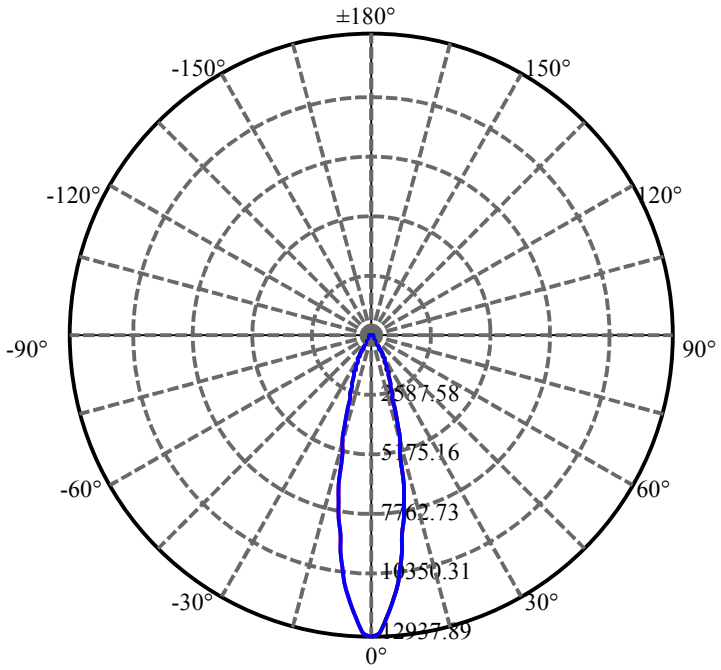
ZONAL LUMEN SUMMARY

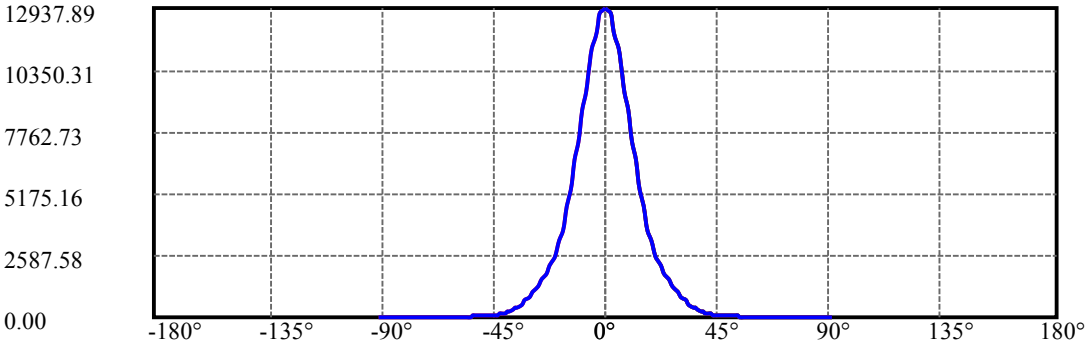
Zone	Lumens	%Lamp	%Fixt
0-30	3006.38	80.58%	87.50%
0-40	3295.37	88.32%	95.92%
0-60	3401.47	91.17%	99.00%
0-90	3435.59	92.08%	100.00%
0-120	3435.59	92.08%	100.00%
0-180	3435.71	92.09%	100.00%
60-90	34.12	0.91%	0.99%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.72	2748.57	73.67%	80.00%

ZONAL LUMEN SUMMARY

0-10	968.40
10-20	1298.55
20-30	739.43
30-40	288.99
40-50	72.28
50-60	33.82
60-70	20.84
70-80	10.10
80-90	3.18
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:26.8 Right:26.8
:C90/270Left:26.8 Right:26.8

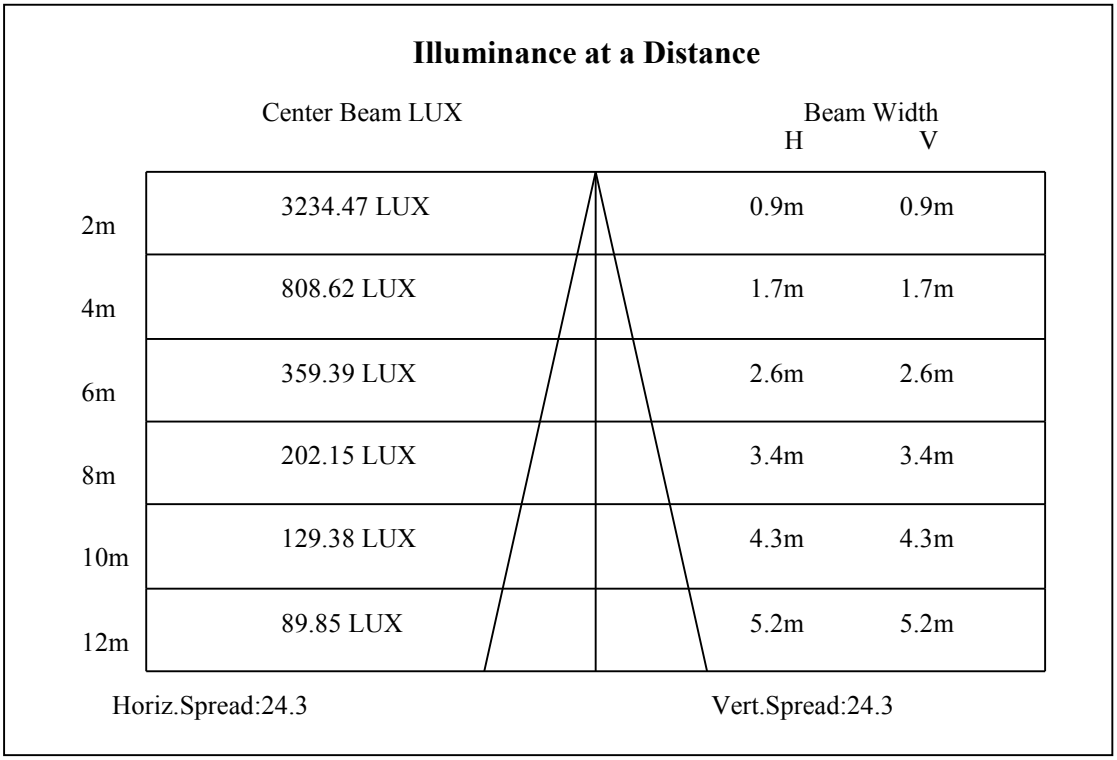
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

Lux distance Curve

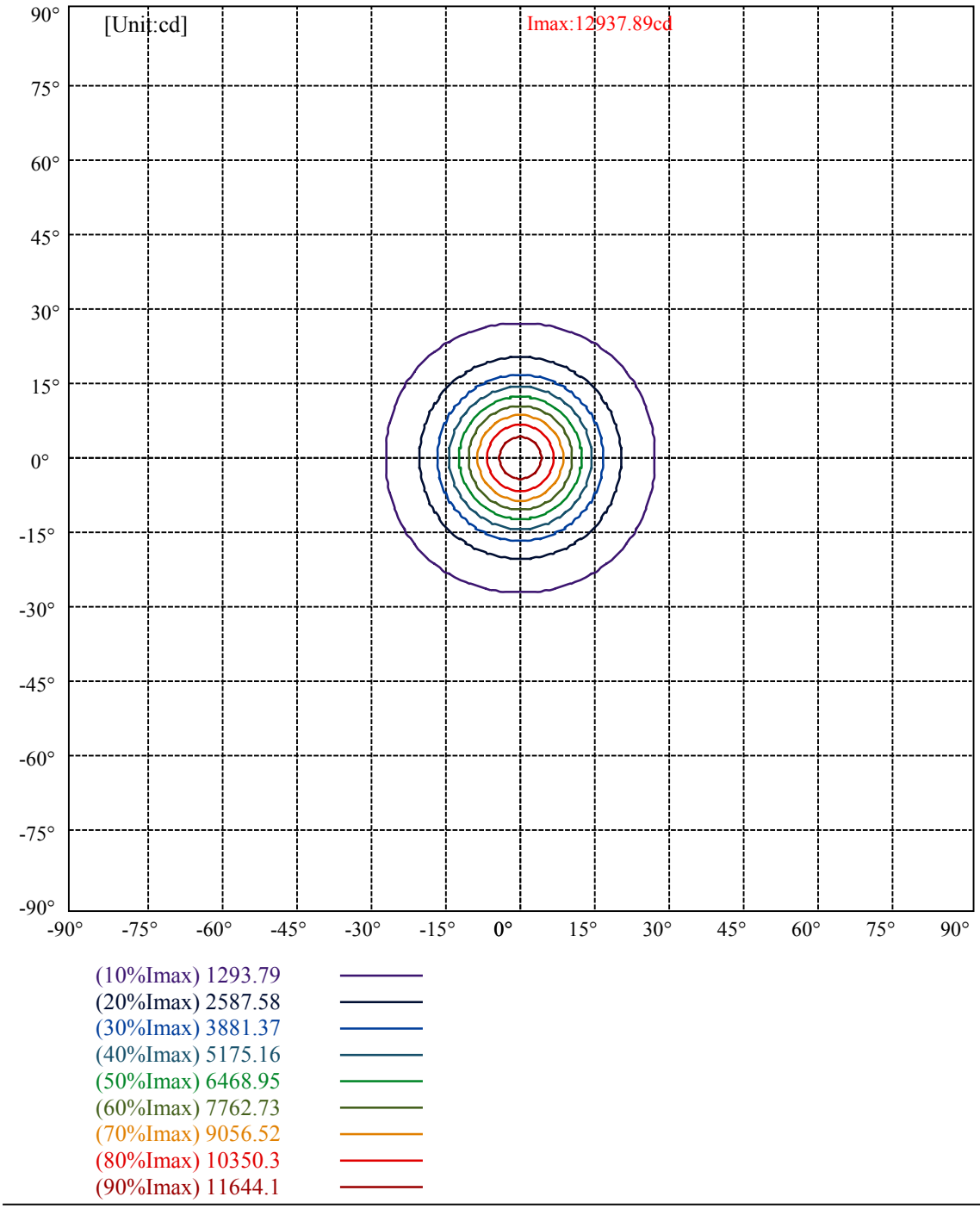


Equipment: GMS 1800
Temperature(°C): 25.0

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

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



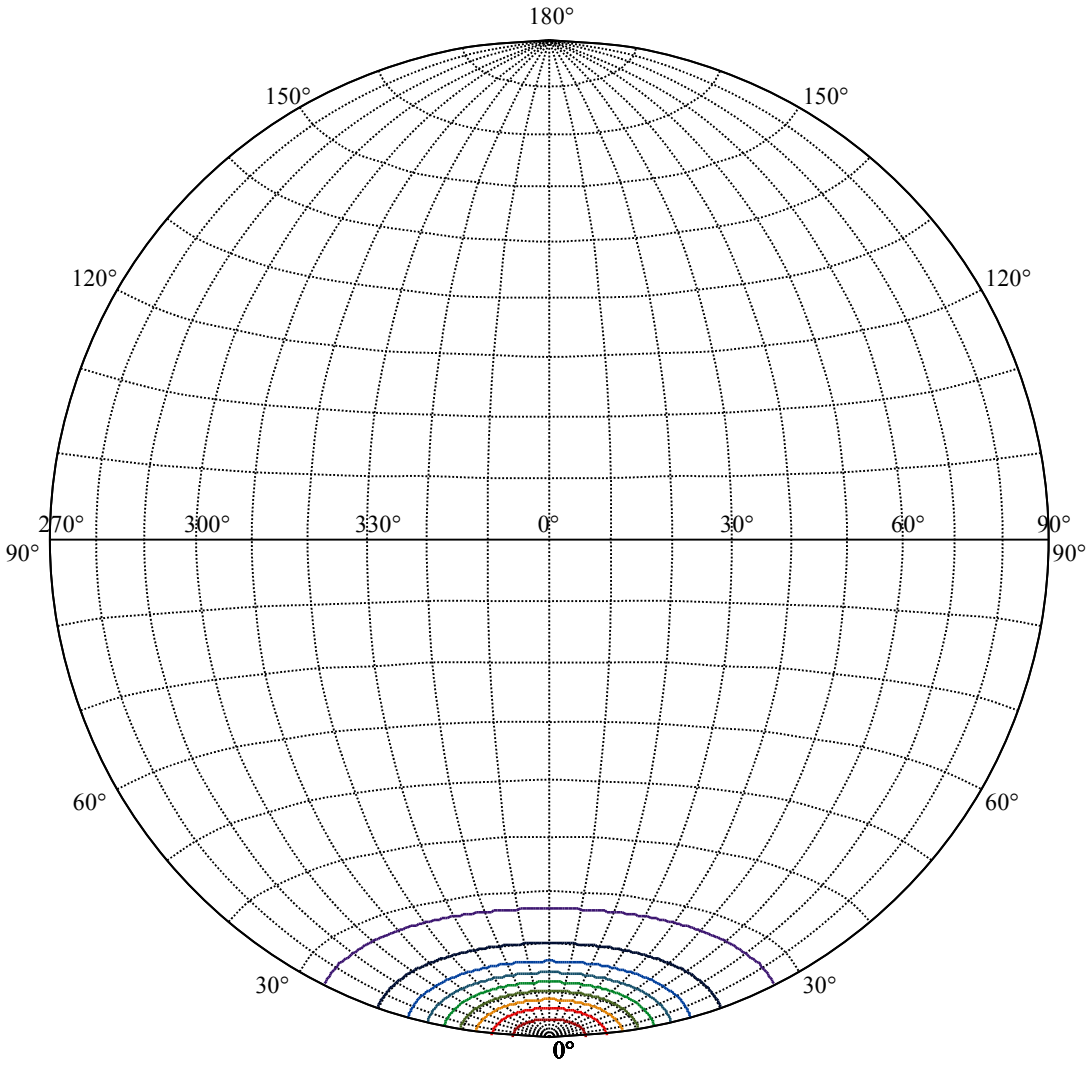
(10%Imax) 1293.79
(20%Imax) 2587.58
(30%Imax) 3881.37
(40%Imax) 5175.16
(50%Imax) 6468.95
(60%Imax) 7762.73
(70%Imax) 9056.52
(80%Imax) 10350.3
(90%Imax) 11644.1

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

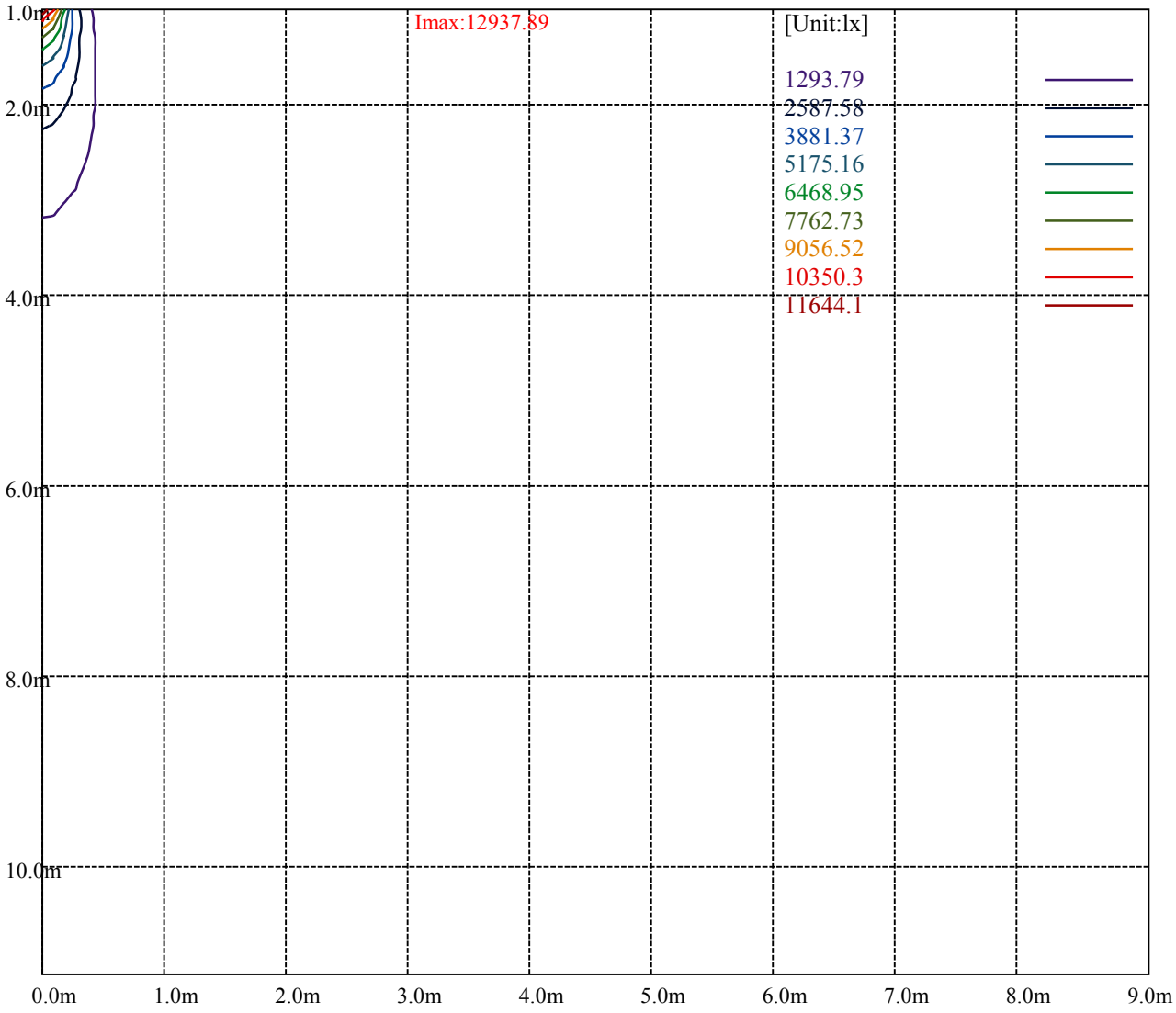


House [Unit:cd] Road

Imax:12937.89

(10%Imax) 1293.79
(20%Imax) 2587.58
(30%Imax) 3881.37
(40%Imax) 5175.16
(50%Imax) 6468.95
(60%Imax) 7762.73
(70%Imax) 9056.52
(80%Imax) 10350.3
(90%Imax) 11644.1

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 2-2752-L

Luminance Limitting Curve(no luminous side)

Luminance Table

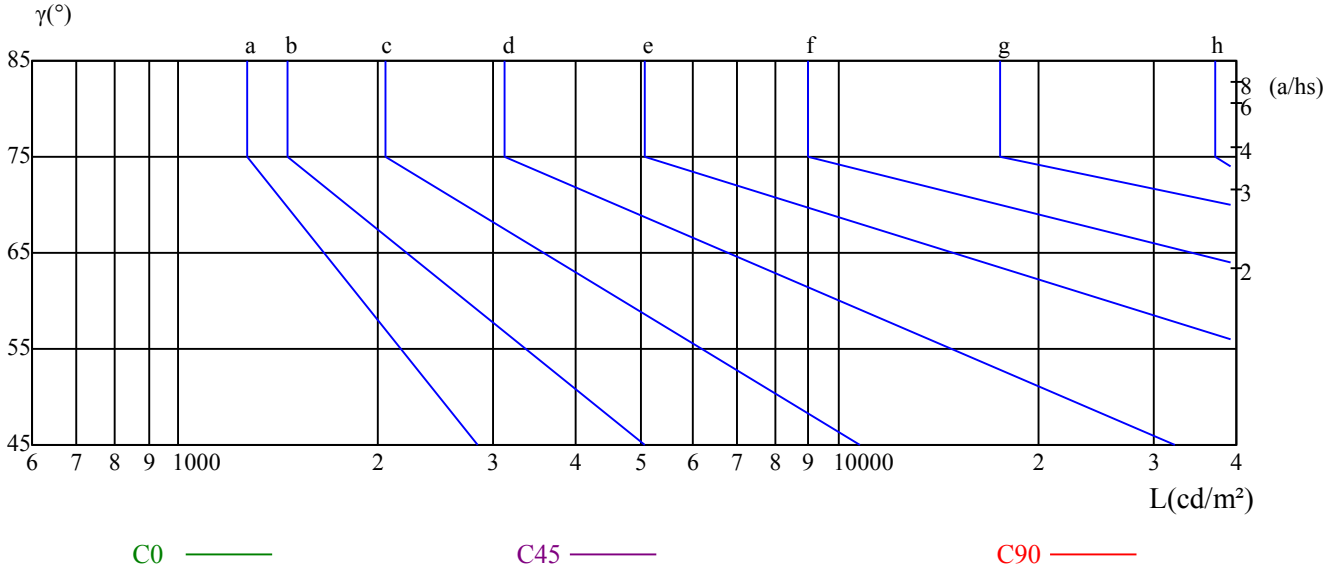
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

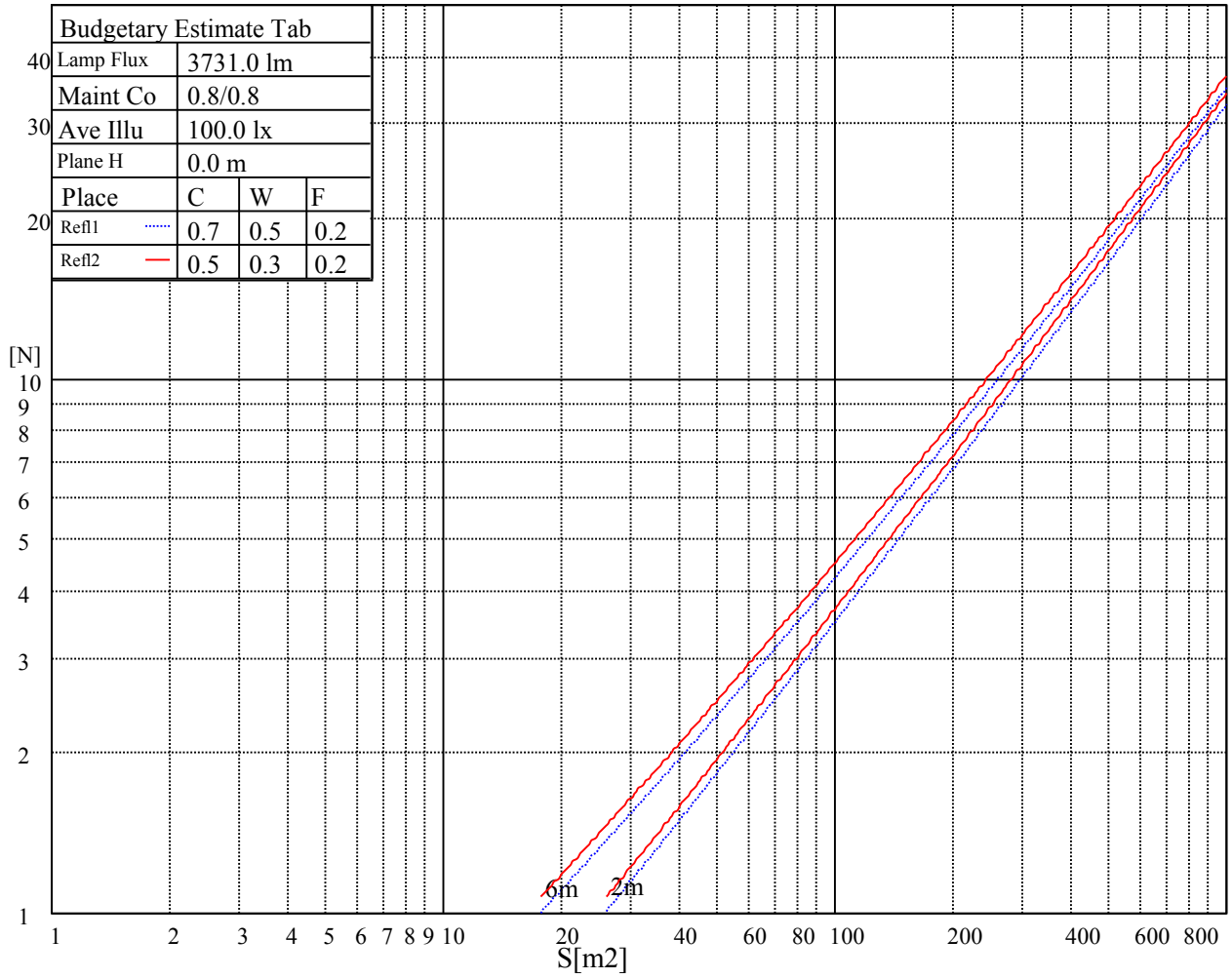
Operator: NT
Distance(m): 7.25

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

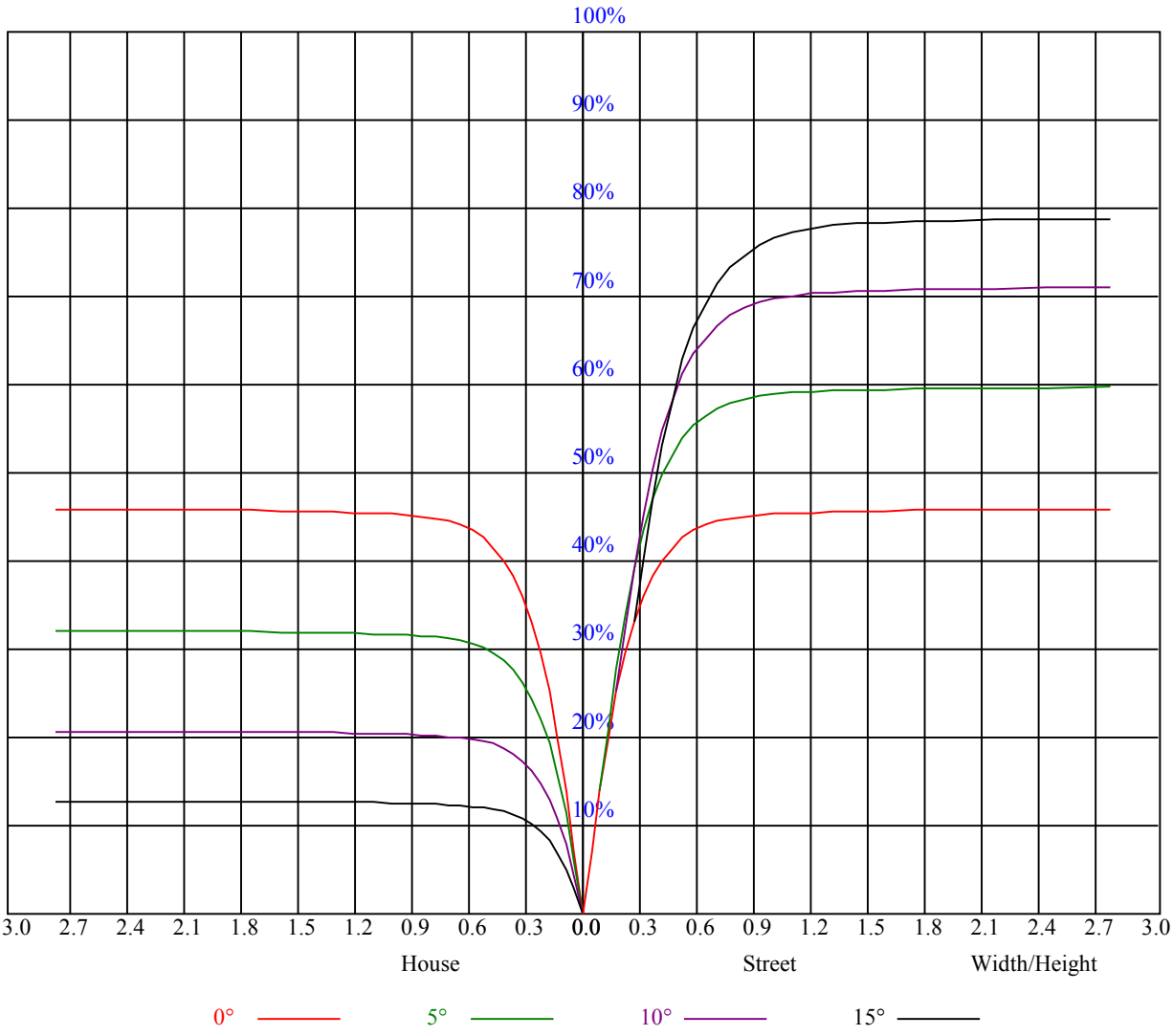
Date: 2024/8/17
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Utilization factor table for indoor luminaire

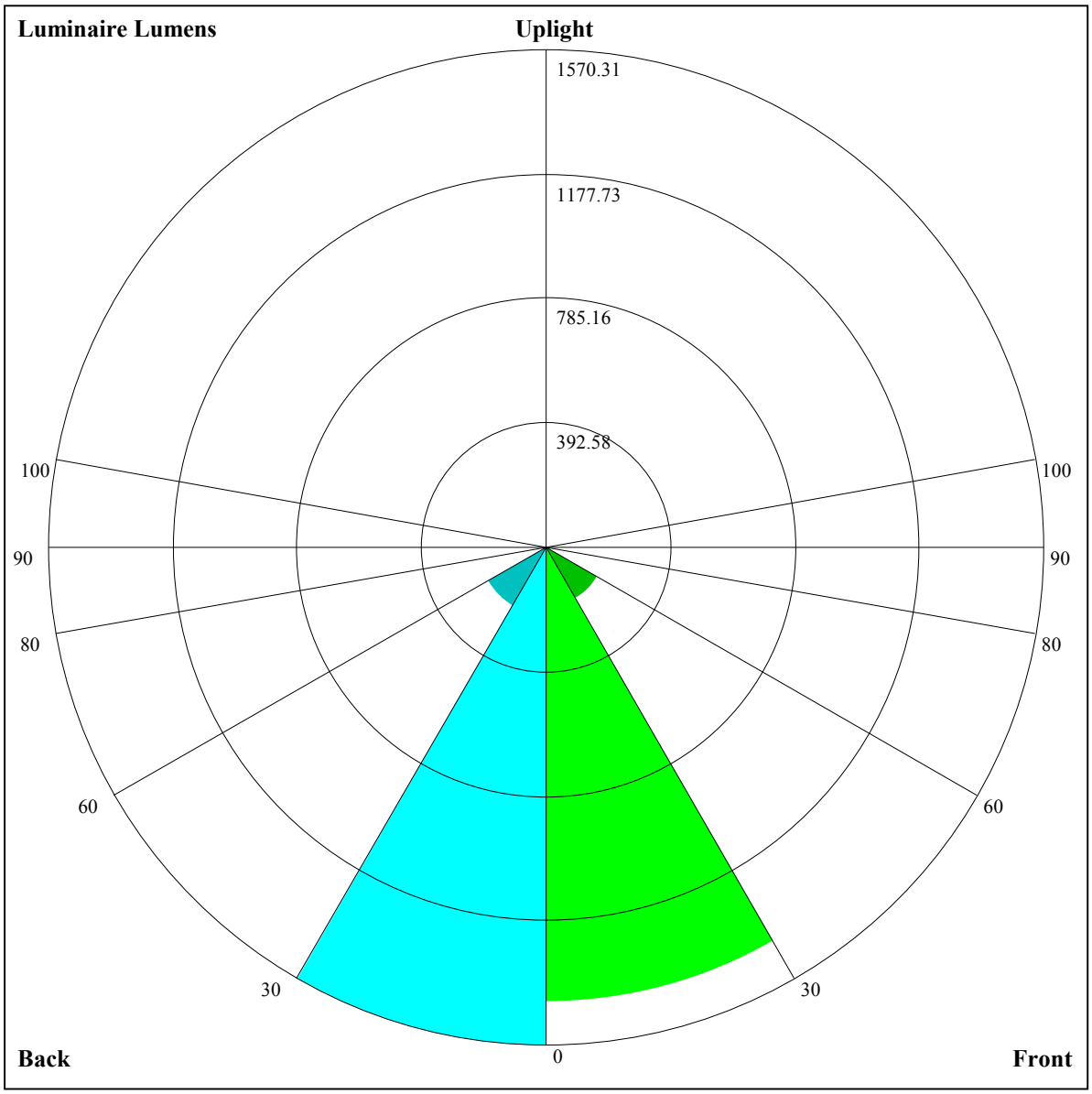
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.98	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.73	0.79	0.75	0.72	0.78	0.74	0.72	0.76	0.74	0.72	0.70
7	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
8	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.66	0.65
9	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.61

Coefficient Utilization Curve



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

LCS Graph



Luminaire Lumens:

FL=1435.84,FM=186.89,FH=14.91,FVH=1.53

BL=1570.31,BM=213.55,BH=16.11,BVH=1.8

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	12873.82	12589.66	12205.22	10977.52	10977.52	10267.72	9538.36	9118.28	8063.56
45.0	13013.11	12923.96	12706.67	12361.23	11893.21	11313.76	10678.60	9987.72	9268.98
90.0	12896.10	12662.10	12294.37	10939.04	10939.04	10420.88	9741.72	9045.85	8610.11
135.0	12968.54	12962.96	12884.96	12539.52	12121.65	11815.21	11230.19	10606.17	9926.43
180.0	12873.82	13013.11	12985.25	12834.82	12539.52	12099.36	11787.35	10996.18	10355.44
225.0	13013.11	12946.25	12740.10	12545.09	12132.79	11002.59	11002.59	10359.07	9670.40
270.0	12896.10	13001.97	12957.39	12767.96	12428.09	11965.64	11408.48	10806.74	10405.59
315.0	12968.54	12829.24	12539.52	12121.65	11050.53	11050.53	10409.79	9746.72	9054.21
360.0	12873.82	12589.66	12205.22	10977.52	10977.52	10267.72	9538.36	9118.28	8063.56

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7320.27	6863.40	6141.88	5469.97	4835.91	4250.31	3721.58	3269.70	2895.88
45.0	8500.09	7742.35	6995.75	6304.87	5630.71	5006.68	4416.09	3892.36	3524.63
90.0	7565.43	7127.53	6406.53	5712.33	5049.31	4435.85	3885.95	3422.40	3036.85
135.0	9202.12	8461.09	7714.49	6995.75	6288.16	5608.42	4989.97	4393.80	3875.64
180.0	9954.29	8962.54	8522.38	7781.35	6767.32	6349.44	5658.56	5012.25	4416.09
225.0	8975.63	8249.11	7531.47	6797.70	6090.63	5410.36	4764.58	4177.35	3673.12
270.0	9447.27	8722.96	8282.80	7541.77	6817.46	6115.44	5446.84	4833.96	4248.94
315.0	8319.86	7588.29	7004.37	6134.67	5581.93	4932.31	4235.85	3824.08	3383.40
360.0	7320.27	6863.40	6141.88	5469.97	4835.91	4250.31	3721.58	3269.70	2895.88

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2592.22	2345.39	2139.82	1970.41	1812.72	1676.22	1538.08	1403.21	1109.07
45.0	3023.18	2744.60	2744.60	2211.67	1996.06	1808.31	1639.48	1479.58	1329.67
90.0	2718.69	2460.71	2233.96	2046.73	1875.17	1724.16	1577.61	1436.11	1353.64
135.0	3407.63	3012.04	2750.18	2750.18	2222.82	2009.99	1826.13	1658.40	1499.61
180.0	3892.36	3429.91	3023.18	2811.46	2811.46	2164.31	1963.16	1784.86	1653.93
225.0	3327.10	2874.12	2631.23	2361.53	2126.42	1932.51	1768.15	1612.72	1474.54
270.0	3719.64	3285.05	2911.75	2783.60	2553.22	2144.23	1958.74	1818.29	1661.76
315.0	3002.84	2698.09	2437.32	2211.67	2023.92	1855.09	1697.98	1556.43	1419.92
360.0	2592.22	2345.39	2139.82	1970.41	1812.72	1676.22	1538.08	1403.21	1109.07

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1055.67	1055.67	921.53	782.50	659.50	551.54	465.91	395.85	335.35
45.0	1184.81	1048.31	920.16	805.94	741.87	601.47	515.11	469.44	379.71
90.0	1065.02	1065.02	925.26	787.12	660.87	551.33	464.86	394.85	334.51
135.0	1347.49	1196.53	1054.98	920.74	797.06	687.25	590.91	508.96	437.69
180.0	1501.87	1331.36	1223.81	1090.09	962.52	836.58	721.84	620.40	532.41
225.0	1341.40	1051.20	1051.20	978.66	851.67	729.73	620.24	526.73	478.06
270.0	1488.46	1380.40	1245.57	1115.17	990.38	866.70	744.13	628.75	529.04
315.0	1109.28	1082.63	1082.63	889.78	805.89	674.59	563.52	473.12	399.84
360.0	1055.67	1055.67	921.53	782.50	659.50	551.54	465.91	395.85	335.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	283.73	238.27	199.00	165.68	137.87	114.85	96.50	81.79	70.80
45.0	346.28	296.14	296.14	206.94	176.03	149.49	127.46	109.01	93.72
90.0	283.10	238.37	200.47	167.99	141.60	119.63	101.55	86.94	79.74
135.0	375.24	321.21	292.25	292.25	201.42	169.88	143.23	120.84	102.60
180.0	455.51	389.17	331.25	280.53	280.53	240.37	165.57	149.17	124.68
225.0	379.92	320.74	289.62	243.31	203.31	169.83	142.29	119.21	100.24
270.0	448.83	381.97	324.00	292.25	292.25	190.22	158.74	142.44	110.75
315.0	337.24	283.47	237.06	197.27	163.57	135.61	112.38	93.88	79.21
360.0	283.73	238.27	199.00	165.68	137.87	114.85	96.50	81.79	70.80

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	62.50	58.66	51.93	49.83	46.89	44.15	41.79	39.84	38.11
45.0	81.58	72.12	64.60	58.66	53.98	50.04	47.99	45.15	42.58
90.0	66.86	62.55	56.66	50.93	49.04	46.15	43.52	41.21	39.42
135.0	88.09	76.48	67.44	60.50	55.14	50.83	47.10	43.99	41.47
180.0	104.55	88.99	76.79	67.49	60.24	54.93	50.83	47.41	44.52
225.0	84.84	73.22	64.44	57.92	53.04	49.30	46.26	43.57	41.37
270.0	99.61	84.36	72.80	64.34	57.87	52.77	48.94	45.94	43.52
315.0	68.33	60.45	54.45	50.09	47.57	44.99	41.94	40.16	38.48
360.0	62.50	58.66	51.93	49.83	46.89	44.15	41.79	39.84	38.11

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	36.37	34.64	32.75	31.17	29.65	27.91	25.86	24.23	22.76
45.0	40.16	38.11	36.22	34.32	32.38	30.38	28.49	26.65	25.07
90.0	37.95	36.27	34.32	32.59	31.06	29.38	27.17	25.02	23.65
135.0	39.37	37.48	35.69	33.90	32.96	31.59	29.33	28.23	26.33
180.0	42.00	40.11	38.37	36.64	34.95	33.32	31.64	30.01	28.23
225.0	39.42	37.69	36.43	34.74	32.54	31.12	29.44	27.81	26.12
270.0	41.21	39.05	37.37	35.64	33.96	32.33	30.91	29.33	27.44
315.0	37.21	35.85	34.22	32.38	30.96	29.75	27.91	25.76	24.13
360.0	36.37	34.64	32.75	31.17	29.65	27.91	25.86	24.23	22.76

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.55	20.60	18.13	16.93	16.19	14.61	13.88	12.51	11.14
45.0	23.55	21.92	20.34	18.82	17.61	16.40	15.14	13.88	12.67
90.0	22.34	20.81	18.98	17.56	16.87	15.61	13.82	12.98	11.98
135.0	24.65	23.23	21.81	20.08	18.61	17.24	15.98	14.77	13.30
180.0	26.44	24.91	23.65	21.81	20.45	18.92	17.61	16.29	15.03
225.0	24.44	23.07	21.60	20.03	18.50	17.14	15.93	14.61	13.35
270.0	25.39	24.18	22.39	21.24	19.71	18.19	16.93	15.72	14.51
315.0	22.71	21.39	19.71	18.03	16.82	15.61	14.40	12.93	12.19
360.0	21.55	20.60	18.13	16.93	16.19	14.61	13.88	12.51	11.14

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.57	9.72	8.88	8.20	7.46	6.78	6.04	5.41	4.73
45.0	12.14	11.14	9.88	9.46	8.67	7.94	7.31	6.57	5.83
90.0	10.99	10.14	9.36	8.57	7.83	7.10	6.47	5.78	5.15
135.0	12.14	11.25	10.35	9.51	8.67	8.25	7.31	6.83	6.20
180.0	13.67	12.56	11.56	10.62	9.72	8.94	8.25	7.52	6.78
225.0	12.35	11.41	10.46	9.93	8.88	8.20	7.73	6.73	6.25
270.0	13.14	12.04	11.09	10.25	9.41	8.62	7.83	7.15	6.52
315.0	10.83	10.35	9.51	8.73	7.99	7.31	6.57	5.94	5.26
360.0	10.57	9.72	8.88	8.20	7.46	6.78	6.04	5.41	4.73

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.15	3.68	3.00	2.42	2.10	1.73	1.42	0.89	1.00
45.0	5.10	4.52	3.68	3.05	2.68	2.10	1.73	1.37	0.95
90.0	4.52	3.94	3.26	2.79	2.31	2.00	1.58	1.16	1.00
135.0	5.57	4.73	4.21	3.63	3.10	2.47	2.05	1.73	1.37
180.0	6.04	5.52	4.78	4.31	3.57	3.10	2.47	2.10	1.73
225.0	5.47	4.84	4.31	3.78	3.21	2.63	2.16	1.79	1.37
270.0	5.83	5.20	4.63	4.05	3.31	2.79	2.37	2.00	1.58
315.0	4.68	3.94	3.42	3.00	2.42	2.00	1.58	1.31	0.84
360.0	4.15	3.68	3.00	2.42	2.10	1.73	1.42	0.89	1.00

Intensity data(cd)

C/γ(°)	90.0
0.0	0.95
45.0	0.95
90.0	1.05
135.0	0.95
180.0	1.26
225.0	1.16
270.0	1.21
315.0	0.79
360.0	0.95