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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: 2024809-B009
Ballast type: AC
Test No: 2024809-C009
LampCAT: P2141-036-1206-P3090-1
Lamp flux(lm): 3120.0
Number of Lamps: 1
Length(mm): 0
Phm Type: C

Voltage(V): 36.610
Current(A): 0.695
Power (W): 25.440
PF: 0.000
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 2917.48, Efficiency(%): 93.51% , Luminous Efficacy(lm/W): 114.68
Central intensity(cd): 10262.250, Maximum intensity(cd): 10262.250
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Field angle(10%Imax): [C0/180]Total=56.8
[C90/270]Total=56.8
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.51%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.184%

Nata 2-2752-L

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10262.250	0.000	0	0.00%	0.00%
1.0	10212.519	9.797	9.797	0.31%	0.34%
2.0	10036.185	29.063	38.86	0.93%	1.33%
3.0	9832.479	47.519	86.379	1.52%	2.96%
4.0	9521.999	64.786	151.165	2.08%	5.18%
5.0	9116.926	80.184	231.348	2.57%	7.93%
6.0	8651.071	93.376	324.724	2.99%	11.13%
7.0	8207.240	104.639	429.363	3.35%	14.72%
8.0	7704.881	113.880	543.243	3.65%	18.62%
9.0	7154.400	120.426	663.669	3.86%	22.75%
10.0	6615.976	124.617	788.286	3.99%	27.02%
11.0	6068.426	126.743	915.03	4.06%	31.36%
12.0	5512.019	126.591	1041.62	4.06%	35.70%
13.0	5000.349	124.755	1166.376	4.00%	39.98%
14.0	4464.146	121.145	1287.52	3.88%	44.13%
15.0	4029.494	116.604	1404.125	3.74%	48.13%
16.0	3554.782	111.131	1515.256	3.56%	51.94%
17.0	3138.310	104.229	1619.485	3.34%	55.51%
18.0	2833.322	98.459	1717.944	3.16%	58.88%
19.0	2561.423	93.858	1811.802	3.01%	62.10%
20.0	2296.357	88.911	1900.713	2.85%	65.15%
21.0	2067.710	83.799	1984.512	2.69%	68.02%
22.0	1904.399	79.821	2064.333	2.56%	70.76%
23.0	1724.576	76.146	2140.479	2.44%	73.37%
24.0	1583.399	72.324	2212.803	2.32%	75.85%
25.0	1443.005	68.814	2281.617	2.21%	78.20%
26.0	1272.334	64.096	2345.713	2.05%	80.40%
27.0	1165.823	59.650	2405.363	1.91%	82.45%
28.0	1073.911	56.705	2462.068	1.82%	84.39%
29.0	956.322	53.117	2515.185	1.70%	86.21%
30.0	840.087	48.503	2563.687	1.55%	87.87%
31.0	725.119	43.557	2607.245	1.40%	89.37%
32.0	613.825	38.359	2645.604	1.23%	90.68%
33.0	514.074	33.228	2678.832	1.07%	91.82%
34.0	430.520	28.586	2707.418	0.92%	92.80%
35.0	358.227	24.496	2731.914	0.79%	93.64%
36.0	303.601	21.073	2752.987	0.68%	94.36%
37.0	267.188	18.616	2771.603	0.60%	95.00%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	238.463	16.878	2788.481	0.54%	95.58%
39.0	189.790	14.617	2803.098	0.47%	96.08%
40.0	150.164	11.856	2814.954	0.38%	96.49%
41.0	121.781	9.684	2824.638	0.31%	96.82%
42.0	102.490	8.148	2832.786	0.26%	97.10%
43.0	86.189	6.989	2839.776	0.22%	97.34%
44.0	70.874	5.928	2845.704	0.19%	97.54%
45.0	60.197	5.037	2850.741	0.16%	97.71%
46.0	52.050	4.390	2855.131	0.14%	97.86%
47.0	45.887	3.895	2859.026	0.12%	98.00%
48.0	41.183	3.520	2862.546	0.11%	98.12%
49.0	37.760	3.242	2865.787	0.10%	98.23%
50.0	35.276	3.045	2868.833	0.10%	98.33%
51.0	33.344	2.903	2871.736	0.09%	98.43%
52.0	31.511	2.783	2874.519	0.09%	98.53%
53.0	29.934	2.673	2877.192	0.09%	98.62%
54.0	28.732	2.586	2879.777	0.08%	98.71%
55.0	27.615	2.515	2882.293	0.08%	98.79%
56.0	26.492	2.445	2884.738	0.08%	98.88%
57.0	25.256	2.366	2887.104	0.08%	98.96%
58.0	24.060	2.281	2889.384	0.07%	99.04%
59.0	22.852	2.193	2891.577	0.07%	99.11%
60.0	21.748	2.107	2893.684	0.07%	99.18%
61.0	20.283	2.006	2895.69	0.06%	99.25%
62.0	18.765	1.882	2897.572	0.06%	99.32%
63.0	17.438	1.761	2899.332	0.06%	99.38%
64.0	16.327	1.657	2900.989	0.05%	99.43%
65.0	15.105	1.556	2902.545	0.05%	99.49%
66.0	13.752	1.440	2903.985	0.05%	99.54%
67.0	12.628	1.326	2905.311	0.04%	99.58%
68.0	11.689	1.232	2906.543	0.04%	99.62%
69.0	10.769	1.146	2907.689	0.04%	99.66%
70.0	9.731	1.053	2908.741	0.03%	99.70%
71.0	8.706	0.953	2909.694	0.03%	99.73%
72.0	7.865	0.862	2910.556	0.03%	99.76%
73.0	7.221	0.789	2911.345	0.03%	99.79%
74.0	6.603	0.727	2912.071	0.02%	99.81%
75.0	6.078	0.670	2912.741	0.02%	99.84%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.486	0.614	2913.355	0.02%	99.86%
77.0	4.993	0.559	2913.914	0.02%	99.88%
78.0	4.560	0.511	2914.425	0.02%	99.90%
79.0	4.172	0.469	2914.895	0.02%	99.91%
80.0	3.706	0.425	2915.319	0.01%	99.93%
81.0	3.331	0.381	2915.7	0.01%	99.94%
82.0	2.904	0.338	2916.038	0.01%	99.95%
83.0	2.523	0.295	2916.333	0.01%	99.96%
84.0	2.142	0.254	2916.587	0.01%	99.97%
85.0	1.846	0.218	2916.805	0.01%	99.98%
86.0	1.583	0.187	2916.992	0.01%	99.98%
87.0	1.321	0.159	2917.151	0.01%	99.99%
88.0	1.091	0.132	2917.283	0.00%	99.99%
89.0	0.894	0.109	2917.392	0.00%	100.00%
90.0	0.802	0.093	2917.485	0.00%	100.00%

Zonal flux distribution table

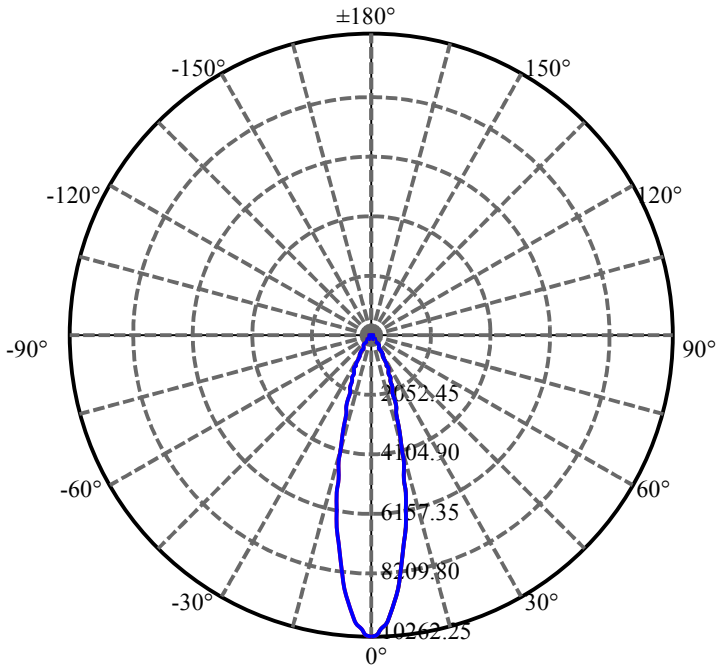
ZONAL LUMEN SUMMARY

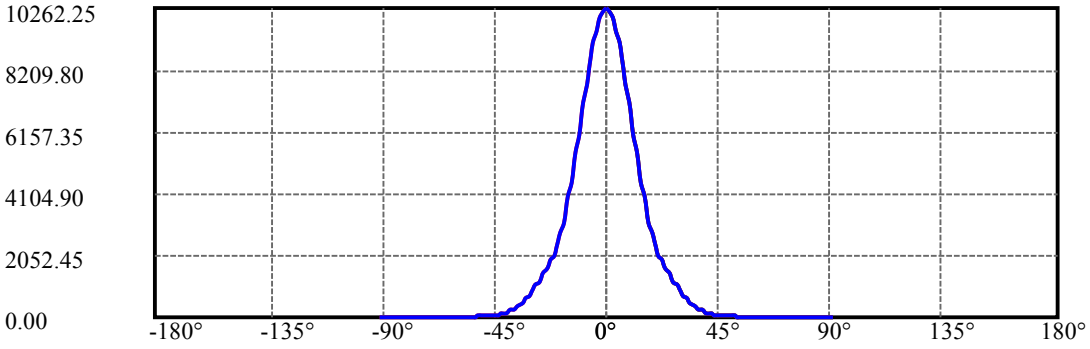
Zone	Lumens	%Lamp	%Fixt
0-30	2563.69	82.17%	87.87%
0-40	2814.95	90.22%	96.49%
0-60	2893.68	92.75%	99.18%
0-90	2917.39	93.51%	100.00%
0-120	2917.39	93.51%	100.00%
0-180	2917.48	93.51%	100.00%
60-90	23.71	0.76%	0.81%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.82	2333.99	74.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	788.29
10-20	1112.43
20-30	662.97
30-40	251.27
40-50	53.88
50-60	24.85
60-70	15.06
70-80	6.58
80-90	2.07
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):

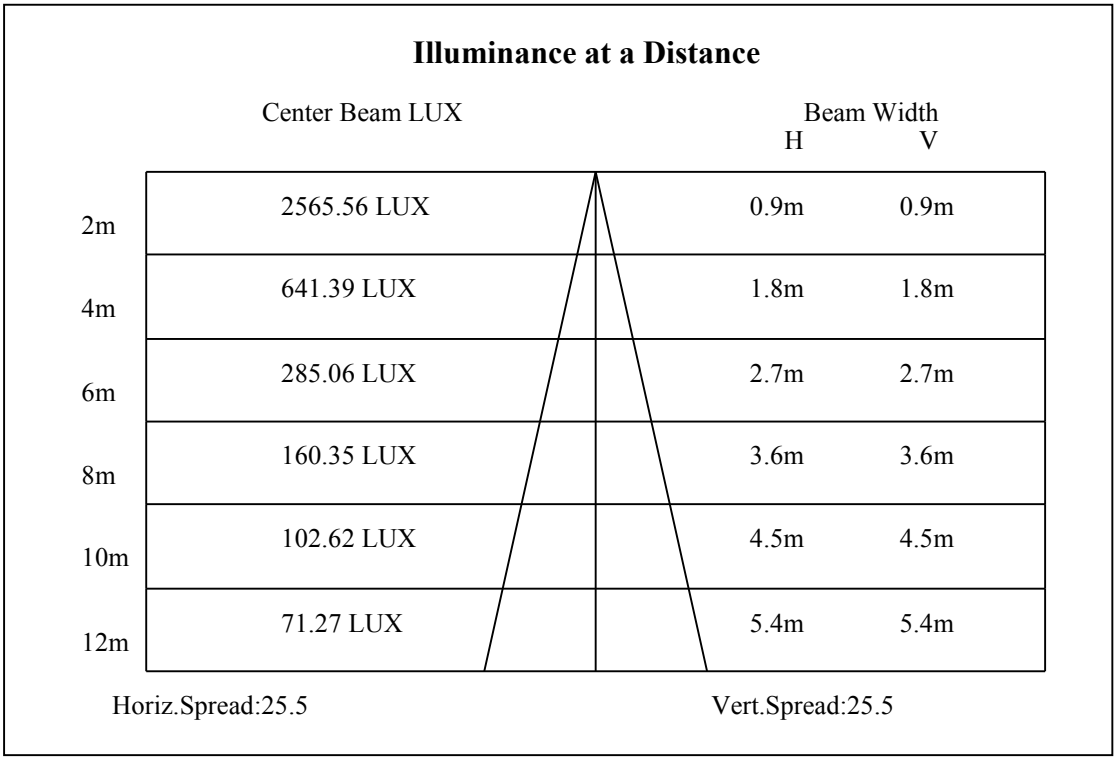
C0/C180:

C90/C270:

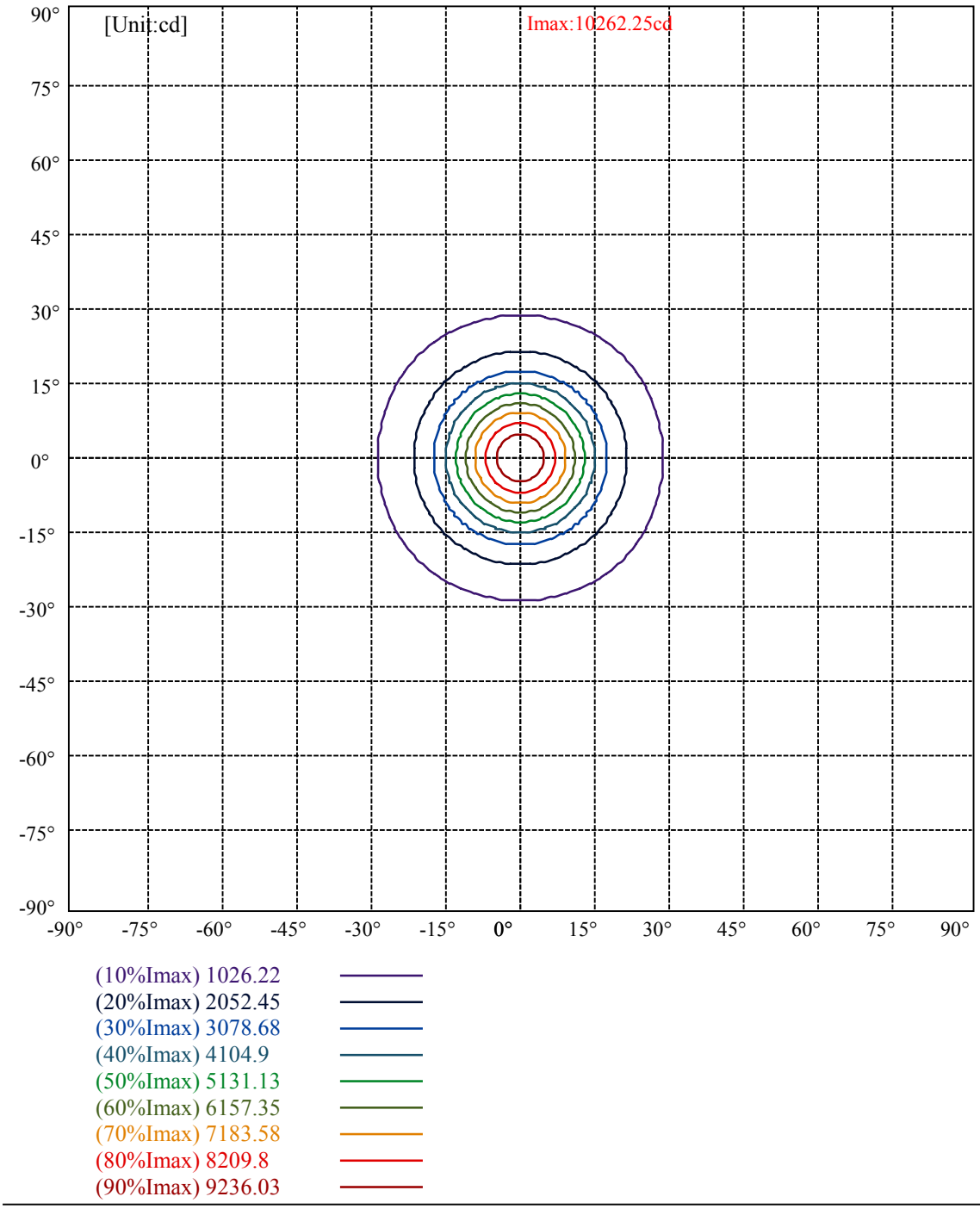
Field angle(10%Imax):C0/180Left:28.4 Right:28.4
:C90/270Left:28.4 Right:28.4

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

Lux distance Curve



ISO-Intensity(V-H)



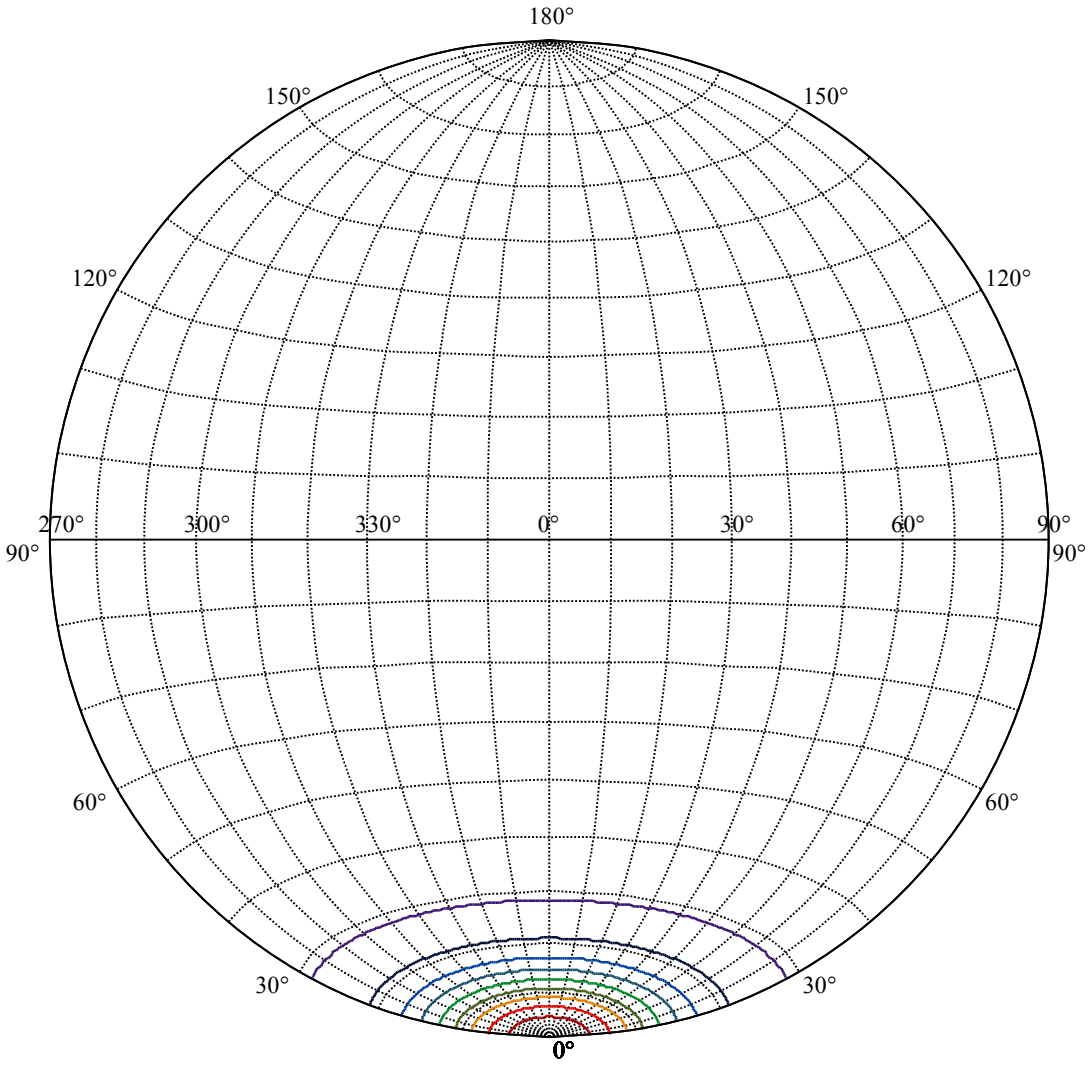
(10%Imax) 1026.22
(20%Imax) 2052.45
(30%Imax) 3078.68
(40%Imax) 4104.9
(50%Imax) 5131.13
(60%Imax) 6157.35
(70%Imax) 7183.58
(80%Imax) 8209.8
(90%Imax) 9236.03

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:10262.25

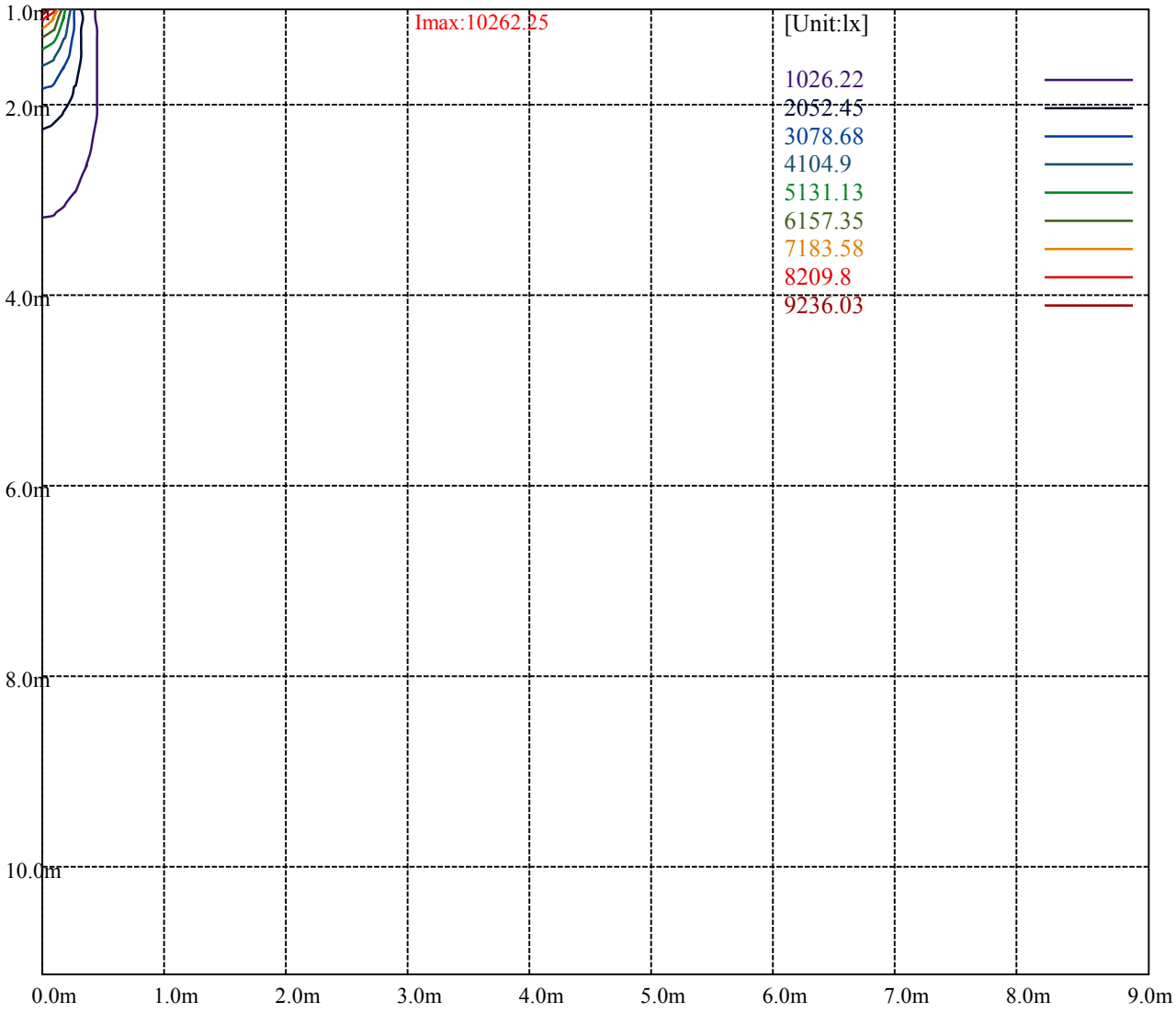
(10%Imax) 1026.22
(20%Imax) 2052.45
(30%Imax) 3078.68
(40%Imax) 4104.9
(50%Imax) 5131.13
(60%Imax) 6157.35
(70%Imax) 7183.58
(80%Imax) 8209.8
(90%Imax) 9236.03

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2752-L

Luminance Limitting Curve(no luminous side)

Luminance Table

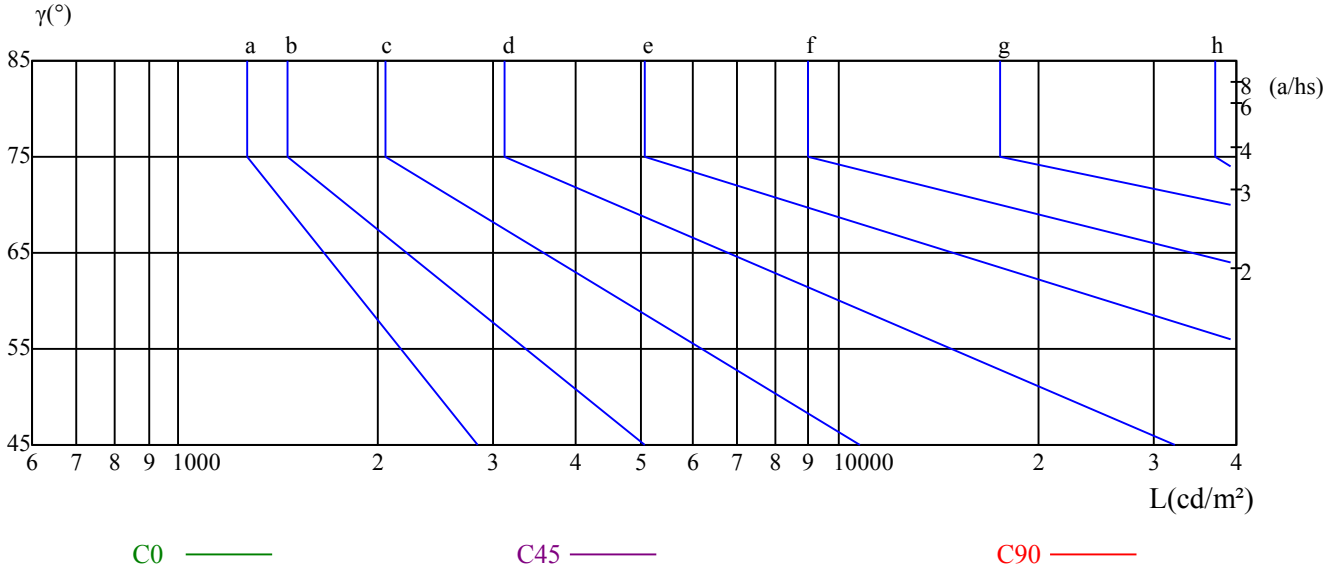
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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: 2024/8/9
Humidity(%): 60.0%

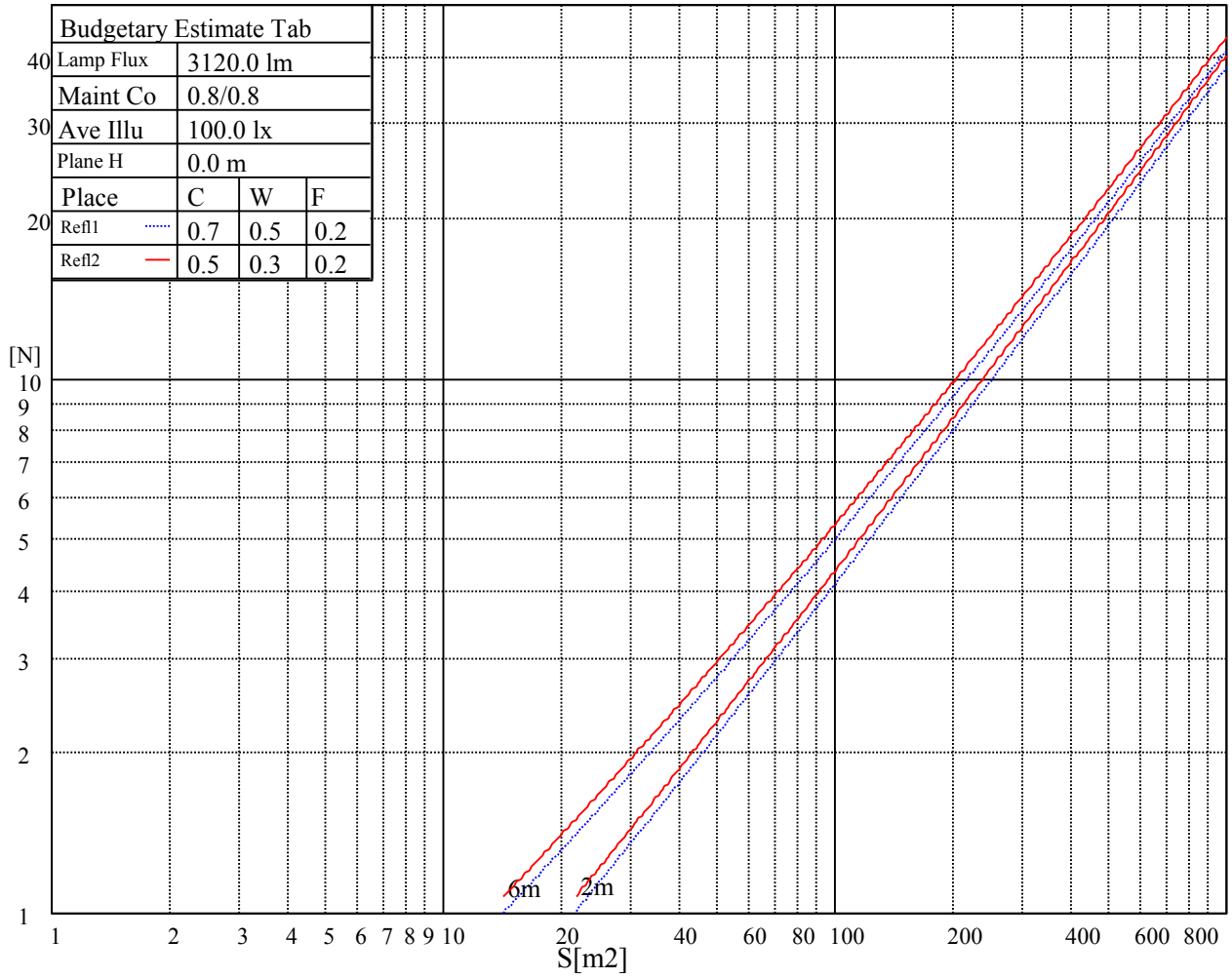
Operator: NT
Distance(m): 7.25

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

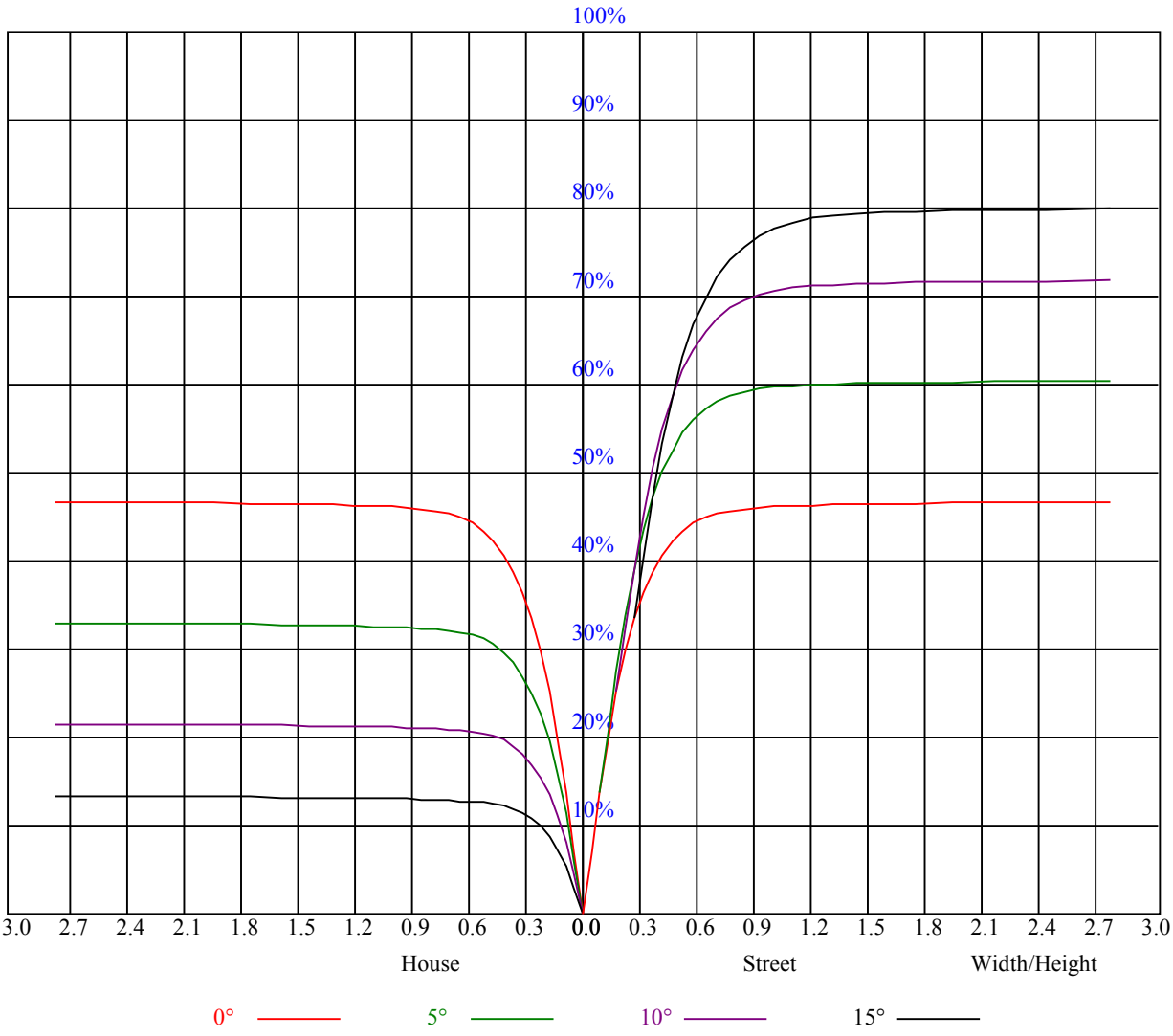
Date: 2024/8/9
Humidity(%): 60.0%

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.94	0.92	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.81
4	0.90	0.85	0.82	0.88	0.85	0.82	0.87	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.85	0.81	0.78	0.85	0.81	0.77	0.83	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.76	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.71
7	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.73	0.68	0.65	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
10	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.68	0.65	0.62	0.61

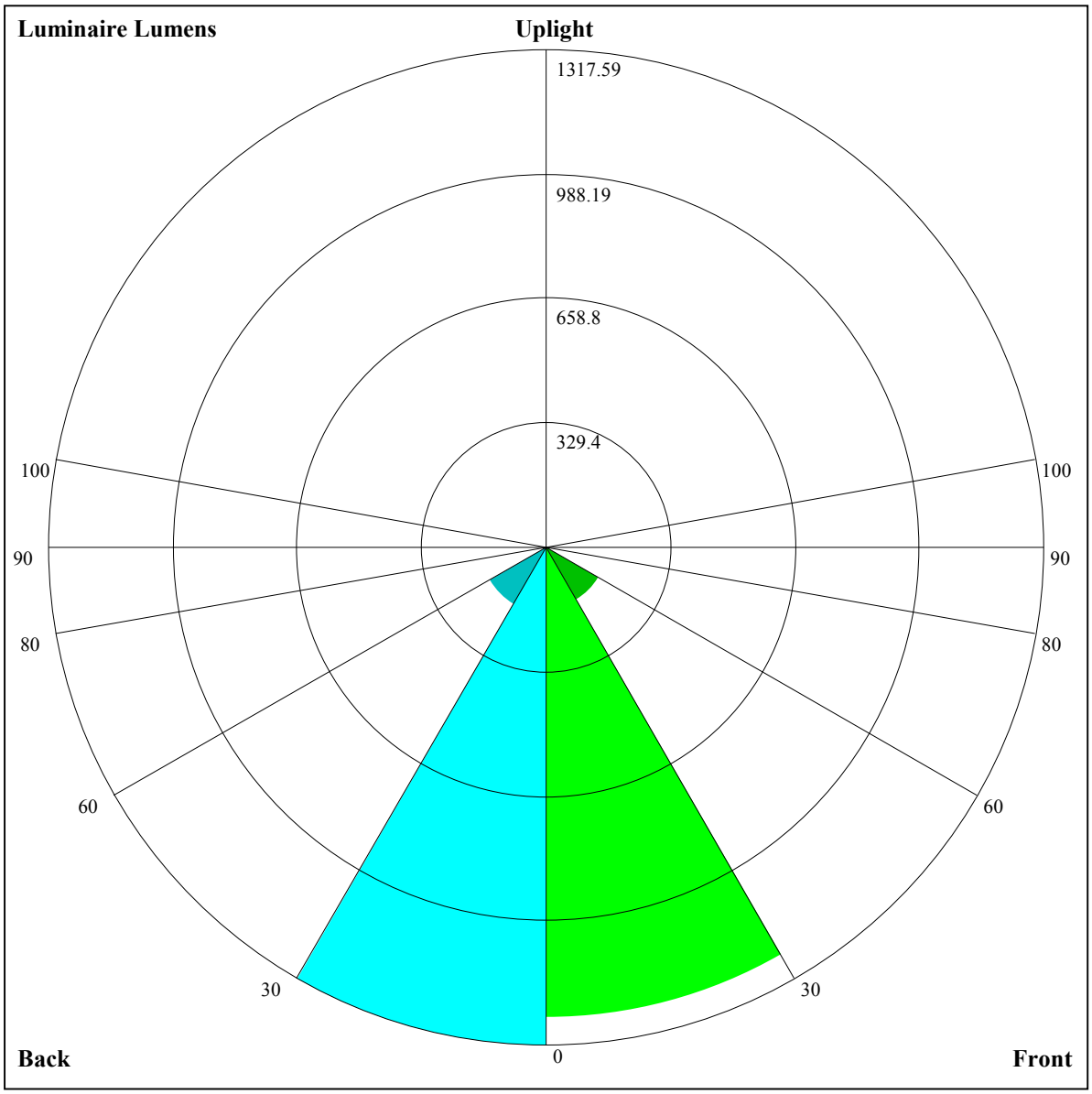
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/9
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=1247.69,FM=158.96,FH=10.51,FVH=1.05
BL=1317.59,BM=174.31,BH=11.18,BVH=1.14
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	10227.56	10072.66	9706.61	9512.18	9093.21	8642.43	8152.13	7631.18	7094.62
45.0	10299.99	10262.67	10128.37	9891.63	9576.26	9196.81	8707.61	8229.61	7709.18
90.0	10259.88	10128.37	9899.41	9587.40	9190.71	8820.72	8236.28	7825.08	7304.14
135.0	10271.03	10260.99	10190.82	10000.23	9717.23	9322.75	8895.94	8456.94	7966.06
180.0	10227.56	10273.24	10221.99	10155.13	9937.83	9638.07	9231.34	8786.77	8319.28
225.0	10299.99	10226.45	10032.55	9760.12	9542.25	8986.19	8539.36	8245.16	7758.80
270.0	10259.88	10278.28	10194.71	10006.95	9729.48	9363.96	8949.45	8498.73	8018.99
315.0	10252.11	10197.49	9915.02	9746.19	9389.03	8964.48	8496.47	7984.45	7467.97
360.0	10227.56	10072.66	9706.61	9512.18	9093.21	8642.43	8152.13	7631.18	7094.62

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6547.50	5985.34	5424.82	4891.05	4382.40	3910.44	3449.15	3065.81	2735.41
45.0	7165.43	6611.05	6066.13	5491.68	5172.41	4458.72	4150.60	3687.57	3112.07
90.0	6645.00	6193.18	5647.16	5097.77	4582.98	4097.09	3628.55	3216.25	2866.92
135.0	7442.85	6896.83	6345.82	5792.55	5228.71	4703.87	4202.95	3731.62	3302.03
180.0	7803.38	7272.39	6736.41	6160.27	5610.94	5068.81	4552.33	4056.98	3596.80
225.0	7217.78	6653.36	6121.85	5564.11	4997.48	4479.90	4018.56	3543.29	3155.48
270.0	7501.35	6952.02	6395.96	5847.16	5290.57	4764.05	4464.29	3789.02	3362.21
315.0	6911.92	6363.64	5809.26	5251.57	4737.30	4230.28	3769.52	3347.71	2975.56
360.0	6547.50	5985.34	5424.82	4891.05	4382.40	3910.44	3449.15	3065.81	2735.41

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2460.19	2271.28	2052.30	1837.80	1709.65	1535.30	1431.07	1297.93	1065.70
45.0	2913.12	2588.34	2324.21	2101.34	1904.13	1733.09	1580.97	1442.79	1315.22
90.0	2566.57	2311.38	2082.95	1890.73	1725.26	1583.76	1446.15	1317.43	1076.32
135.0	2941.56	2629.54	2412.83	2134.25	1969.88	1792.12	1635.59	1494.04	1359.79
180.0	3185.60	2969.41	2548.18	2294.14	2152.59	1946.44	1769.83	1616.09	1470.65
225.0	2807.26	2528.68	2274.06	2051.78	1864.02	1700.76	1550.86	1407.15	1229.96
270.0	3135.98	2800.58	2517.01	2271.28	2051.20	1868.44	1700.19	1549.23	1414.93
315.0	2656.30	2392.17	2159.32	1960.37	1858.45	1636.69	1552.54	1419.40	1246.10
360.0	2460.19	2271.28	2052.30	1837.80	1709.65	1535.30	1431.07	1297.93	1065.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1065.70	949.70	832.91	717.11	605.57	503.76	419.71	352.80	294.88
45.0	1188.70	1064.50	947.49	833.27	714.59	600.89	502.87	433.75	350.75
90.0	1076.32	1004.89	887.94	773.61	659.45	554.22	460.13	386.18	324.21
135.0	1233.27	1106.28	990.38	873.90	757.48	643.26	537.98	446.05	373.61
180.0	1338.03	1212.14	1089.57	971.41	857.19	742.45	631.54	529.62	439.32
225.0	1062.45	1062.45	948.12	831.22	717.22	602.26	504.49	419.82	350.12
270.0	1281.79	1157.53	1037.74	917.95	804.26	689.51	579.19	478.32	397.53
315.0	1080.32	1033.80	916.43	802.21	685.20	574.25	476.69	397.64	335.40
360.0	1065.70	949.70	832.91	717.11	605.57	503.76	419.71	352.80	294.88

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	247.04	222.76	171.67	152.17	125.31	95.56	84.94	70.54	59.19
45.0	295.03	295.03	277.21	180.82	150.54	123.73	103.71	86.83	72.27
90.0	272.22	228.44	189.75	157.53	129.57	107.17	88.67	76.32	61.87
135.0	312.85	301.71	281.10	196.37	163.47	134.24	111.27	92.51	76.58
180.0	369.67	310.07	290.04	290.04	187.44	154.95	128.83	107.44	89.25
225.0	293.72	246.52	205.31	170.36	139.71	116.06	95.51	85.26	66.54
270.0	358.53	300.03	300.03	199.58	164.47	135.40	111.70	92.19	76.22
315.0	279.74	232.96	192.59	171.46	140.81	107.12	95.30	78.42	65.07
360.0	247.04	222.76	171.67	152.17	125.31	95.56	84.94	70.54	59.19

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	50.83	44.94	40.26	37.16	34.80	32.59	30.80	29.28	28.07
45.0	60.60	52.19	46.31	41.37	38.00	35.48	34.11	32.06	30.28
90.0	53.14	47.94	42.84	38.95	36.27	33.90	31.91	30.12	28.91
135.0	64.18	55.09	48.30	43.10	39.16	36.64	34.53	32.75	30.91
180.0	74.38	62.55	54.19	47.73	42.68	39.05	36.58	34.53	32.59
225.0	60.08	51.83	45.83	41.10	37.58	35.48	33.48	31.64	30.07
270.0	63.39	54.14	47.20	41.94	38.16	35.53	33.64	31.80	30.17
315.0	54.98	47.73	42.16	38.11	35.43	33.53	31.70	29.91	28.49
360.0	50.83	44.94	40.26	37.16	34.80	32.59	30.80	29.28	28.07

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.12	25.86	24.34	23.18	22.29	20.97	19.61	17.77	16.93
45.0	28.96	27.96	26.81	25.49	24.02	22.86	21.71	20.34	18.61
90.0	27.86	26.75	25.44	24.18	23.13	21.87	20.45	18.71	17.56
135.0	29.33	28.28	27.33	26.02	24.81	23.71	22.76	21.39	19.61
180.0	30.70	29.38	28.38	27.49	26.07	24.49	23.55	22.50	20.97
225.0	29.01	28.07	26.96	25.55	24.34	23.29	21.97	20.34	18.55
270.0	29.28	27.96	27.44	26.33	24.97	23.60	22.65	21.55	19.87
315.0	27.60	26.65	25.23	23.81	22.86	22.02	21.29	19.66	18.03
360.0	27.12	25.86	24.34	23.18	22.29	20.97	19.61	17.77	16.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.87	14.61	13.14	12.09	11.25	10.46	9.36	8.36	7.62
45.0	17.29	16.24	15.19	13.67	12.40	11.56	10.72	9.72	8.57
90.0	16.45	15.30	13.93	12.56	12.09	11.25	10.20	8.99	8.25
135.0	18.13	17.03	15.98	14.56	13.19	12.19	11.35	10.35	9.04
180.0	19.13	17.77	16.71	15.61	14.14	12.83	11.93	11.04	10.04
225.0	17.50	16.61	15.09	13.56	12.56	11.72	10.83	9.67	8.62
270.0	18.19	17.14	16.08	14.82	13.25	12.19	11.35	10.41	9.25
315.0	16.93	15.93	14.72	13.14	12.14	11.30	10.41	9.30	8.25
360.0	15.87	14.61	13.14	12.09	11.25	10.46	9.36	8.36	7.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.99	6.47	5.78	5.31	4.89	4.47	3.94	3.57	3.15
45.0	7.78	7.25	6.62	6.15	5.57	4.94	4.57	4.15	3.73
90.0	7.52	6.89	6.25	5.73	5.26	4.73	4.26	3.84	3.36
135.0	8.25	7.57	6.89	6.41	5.73	5.15	4.78	4.52	4.05
180.0	8.78	7.94	7.36	6.73	6.10	5.52	5.20	4.73	4.26
225.0	7.83	7.15	6.57	5.94	5.47	4.94	4.47	4.05	3.63
270.0	8.25	7.57	6.94	6.62	5.68	5.41	4.89	4.52	4.05
315.0	7.52	6.94	6.41	5.73	5.20	4.78	4.36	3.99	3.42
360.0	6.99	6.47	5.78	5.31	4.89	4.47	3.94	3.57	3.15

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.84	2.47	2.16	1.84	1.58	1.31	1.16	0.89	0.79
45.0	3.31	2.94	2.47	2.10	1.79	1.47	1.26	1.00	0.79
90.0	3.05	2.68	2.26	1.94	1.68	1.47	1.26	1.05	0.84
135.0	3.63	3.05	2.73	2.31	1.89	1.79	1.42	1.21	1.00
180.0	3.89	3.31	3.00	2.47	2.16	1.89	1.47	1.26	1.10
225.0	3.15	2.89	2.52	2.16	1.84	1.58	1.31	1.05	0.84
270.0	3.63	3.10	2.73	2.31	2.05	1.73	1.42	1.21	0.95
315.0	3.15	2.79	2.31	2.00	1.79	1.42	1.26	1.05	0.84
360.0	2.84	2.47	2.16	1.84	1.58	1.31	1.16	0.89	0.79

Intensity data(cd)

C/γ(°)	90.0
0.0	0.84
45.0	0.79
90.0	0.89
135.0	0.84
180.0	0.84
225.0	0.63
270.0	0.79
315.0	0.79
360.0	0.84