NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86 750 3771111
Address:Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

Nata

Client:
LumCAT: 2-2760-L
Luminaire: 92.70.411.00
Report No: 2024902-B017
Ballast type:

Test No: 2024902-C017	Voltage(V):
LampCAT: LUMILEDS LUXEON CoB 1208	Current(A):
Lamp flux(lm): 4053.0	Power (W): 32.800
Number of Lamps: 1	PF:
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 3760.11, Efficiency(%): 92.77% , Luminous Efficacy(lm/W): 114.64
Central intensity(cd): 5440.139, Maximum intensity(cd): 5444.397
Angle of maximum intensity: C=0.0 γ=2.0
Beam Angle(50%Imax): [C0/180]Total=51.2
[C90/270]Total=51.2
Field angle(10%Imax): [C0/180]Total=73.6
[C90/270]Total=73.6
Maximum s/h(1/2): C0_180=0.82 C90_270=0.82
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(%): 92.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.264%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5440.139	0.000	0	0.00%	0.00%
1.0	5439.588	5.206	5.206	0.13%	0.14%
2.0	5444.397	15.622	20.827	0.39%	0.55%
3.0	5441.757	26.036	46.864	0.64%	1.25%
4.0	5443.773	36.437	83.301	0.90%	2.22%
5.0	5432.972	46.791	130.092	1.15%	3.46%
6.0	5413.826	57.003	187.095	1.41%	4.98%
7.0	5393.701	67.082	254.177	1.66%	6.76%
8.0	5356.783	76.939	331.116	1.90%	8.81%
9.0	5304.141	86.401	417.517	2.13%	11.10%
10.0	5234.555	95.371	512.889	2.35%	13.64%
11.0	5150.915	103.772	616.661	2.56%	16.40%
12.0	5053.142	111.545	728.206	2.75%	19.37%
13.0	4942.386	118.622	846.827	2.93%	22.52%
14.0	4820.040	124.958	971.786	3.08%	25.84%
15.0	4687.366	130.522	1102.308	3.22%	29.32%
16.0	4530.717	135.071	1237.378	3.33%	32.91%
17.0	4365.171	138.533	1375.911	3.42%	36.59%
18.0	4207.576	141.346	1517.257	3.49%	40.35%
19.0	4029.619	143.310	1660.567	3.54%	44.16%
20.0	3846.038	144.146	1804.714	3.56%	48.00%
21.0	3658.002	144.093	1948.807	3.56%	51.83%
22.0	3475.945	143.360	2092.166	3.54%	55.64%
23.0	3265.209	141.448	2233.614	3.49%	59.40%
24.0	3072.975	138.575	2372.189	3.42%	63.09%
25.0	2867.173	135.066	2507.255	3.33%	66.68%
26.0	2639.853	129.994	2637.249	3.21%	70.14%
27.0	2443.453	124.364	2761.614	3.07%	73.44%
28.0	2222.671	118.136	2879.75	2.91%	76.59%
29.0	1983.932	110.057	2989.807	2.72%	79.51%
30.0	1757.289	101.012	3090.819	2.49%	82.20%
31.0	1505.929	90.811	3181.629	2.24%	84.62%
32.0	1285.987	79.985	3261.614	1.97%	86.74%
33.0	1065.619	69.279	3330.894	1.71%	88.58%
34.0	921.408	60.133	3391.027	1.48%	90.18%
35.0	765.744	52.397	3443.424	1.29%	91.58%
36.0	632.675	44.526	3487.95	1.10%	92.76%
37.0	521.867	37.655	3525.604	0.93%	93.76%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	429.574	31.758	3557.362	0.78%	94.61%
39.0	359.777	26.943	3584.305	0.66%	95.32%
40.0	305.138	23.190	3607.495	0.57%	95.94%
41.0	254.757	19.938	3627.432	0.49%	96.47%
42.0	205.513	16.722	3644.155	0.41%	96.92%
43.0	163.745	13.678	3657.833	0.34%	97.28%
44.0	135.854	11.308	3669.141	0.28%	97.58%
45.0	102.602	9.164	3678.305	0.23%	97.82%
46.0	84.153	7.304	3685.608	0.18%	98.02%
47.0	70.269	6.142	3691.75	0.15%	98.18%
48.0	59.790	5.258	3697.008	0.13%	98.32%
49.0	51.958	4.589	3701.597	0.11%	98.44%
50.0	45.769	4.075	3705.671	0.10%	98.55%
51.0	40.940	3.669	3709.34	0.09%	98.65%
52.0	37.096	3.349	3712.689	0.08%	98.74%
53.0	33.752	3.082	3715.77	0.08%	98.82%
54.0	30.946	2.852	3718.622	0.07%	98.90%
55.0	28.587	2.657	3721.28	0.07%	98.97%
56.0	26.465	2.488	3723.767	0.06%	99.03%
57.0	24.862	2.347	3726.114	0.06%	99.10%
58.0	23.101	2.218	3728.332	0.05%	99.15%
59.0	21.715	2.095	3730.427	0.05%	99.21%
60.0	20.585	1.998	3732.426	0.05%	99.26%
61.0	19.520	1.914	3734.339	0.05%	99.31%
62.0	18.279	1.821	3736.161	0.04%	99.36%
63.0	17.424	1.736	3737.897	0.04%	99.41%
64.0	16.524	1.666	3739.563	0.04%	99.45%
65.0	15.565	1.588	3741.151	0.04%	99.50%
66.0	14.803	1.515	3742.666	0.04%	99.54%
67.0	14.014	1.449	3744.115	0.04%	99.57%
68.0	13.239	1.381	3745.496	0.03%	99.61%
69.0	12.510	1.314	3746.809	0.03%	99.65%
70.0	11.820	1.250	3748.059	0.03%	99.68%
71.0	11.124	1.186	3749.245	0.03%	99.71%
72.0	10.447	1.122	3750.366	0.03%	99.74%
73.0	9.777	1.058	3751.424	0.03%	99.77%
74.0	9.133	0.994	3752.418	0.02%	99.80%
75.0	8.541	0.934	3753.352	0.02%	99.82%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.898	0.873	3754.225	0.02%	99.84%
77.0	7.280	0.809	3755.034	0.02%	99.86%
78.0	6.583	0.742	3755.776	0.02%	99.88%
79.0	6.005	0.676	3756.452	0.02%	99.90%
80.0	5.355	0.612	3757.065	0.02%	99.92%
81.0	4.724	0.545	3757.61	0.01%	99.93%
82.0	4.152	0.481	3758.091	0.01%	99.95%
83.0	3.568	0.420	3758.511	0.01%	99.96%
84.0	3.016	0.359	3758.869	0.01%	99.97%
85.0	2.582	0.306	3759.175	0.01%	99.98%
86.0	2.168	0.260	3759.435	0.01%	99.98%
87.0	1.827	0.219	3759.653	0.01%	99.99%
88.0	1.478	0.181	3759.834	0.00%	99.99%
89.0	1.242	0.149	3759.983	0.00%	100.00%
90.0	1.110	0.129	3760.112	0.00%	100.00%

Zonal flux distribution table

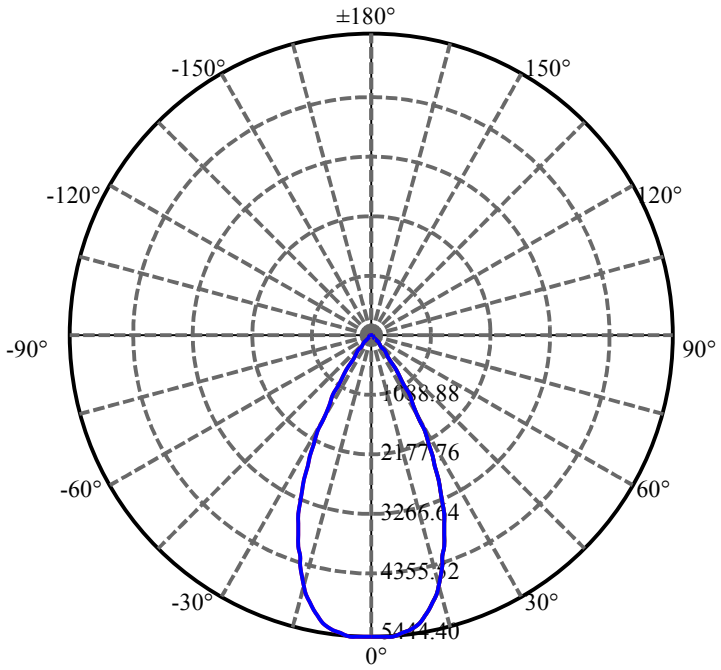
ZONAL LUMEN SUMMARY

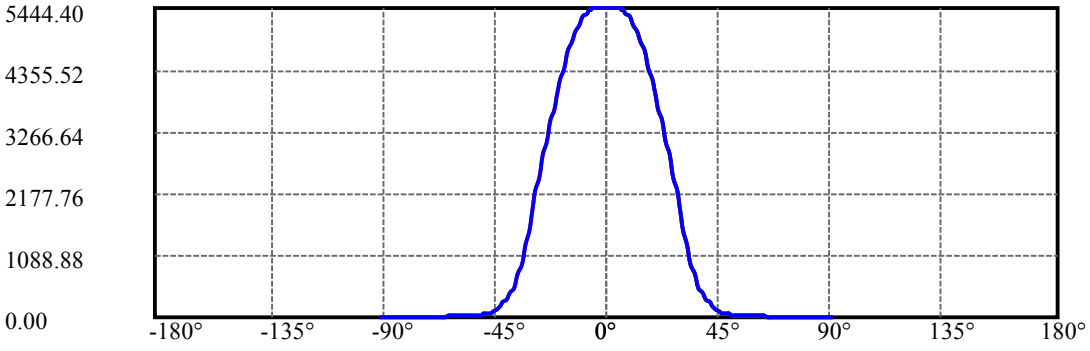
Zone	Lumens	%Lamp	%Fixt
0-30	3090.82	76.26%	82.20%
0-40	3607.49	89.01%	95.94%
0-60	3732.43	92.09%	99.26%
0-90	3759.98	92.77%	100.00%
0-120	3759.98	92.77%	100.00%
0-180	3760.11	92.77%	100.00%
60-90	27.56	0.68%	0.73%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.18	3008.09	74.22%	80.00%

ZONAL LUMEN SUMMARY

0-10	512.89
10-20	1291.83
20-30	1286.10
30-40	516.68
40-50	98.18
50-60	26.75
60-70	15.63
70-80	9.01
80-90	2.92
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):

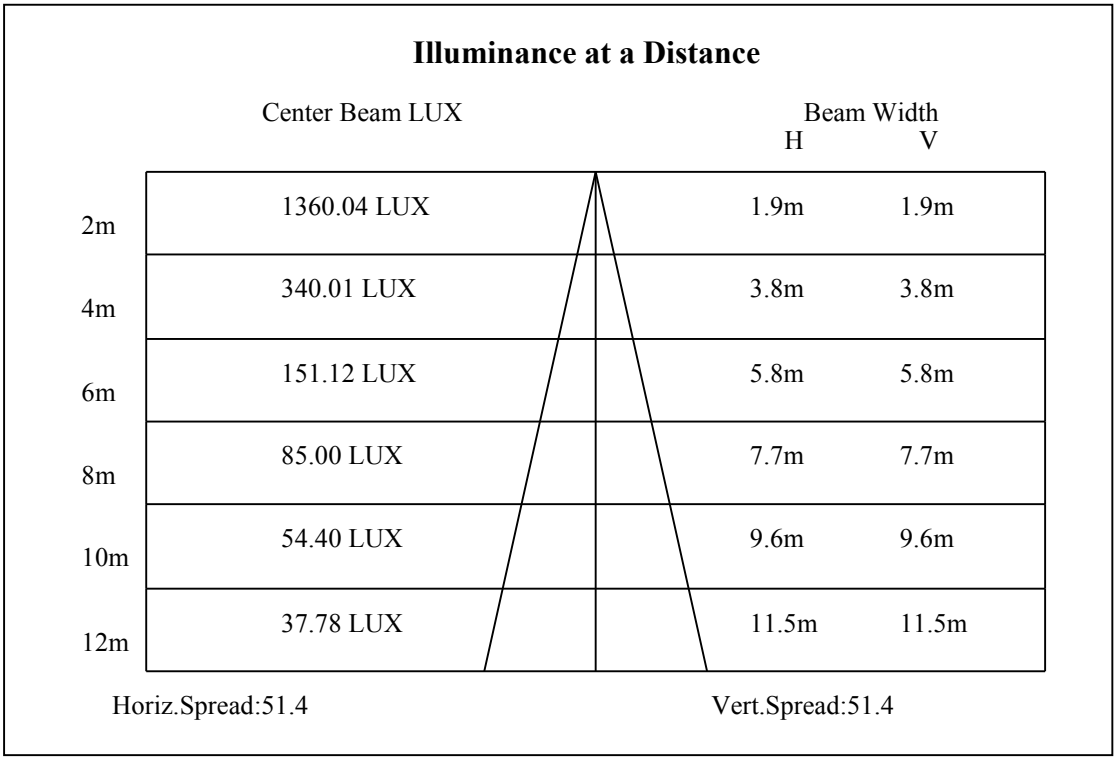
C0/C180:

C90/C270:

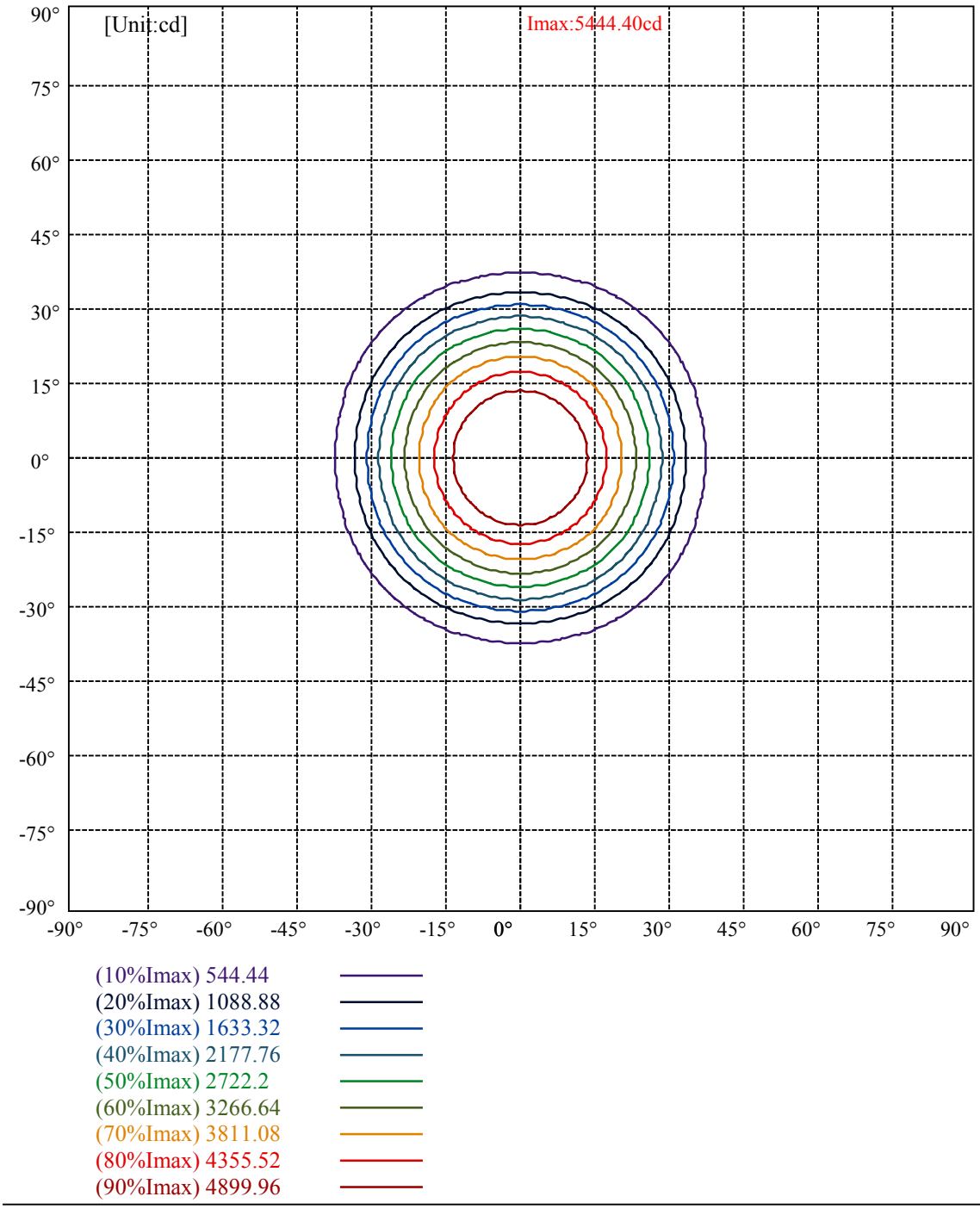
Field angle(10%Imax):C0/180Left:38.8 Right:34.8
:C90/270Left:38.8 Right:34.8

Beam Angle(50%Imax):C0/180Left:27.6 Right:23.6
:C90/270Left:27.6 Right:23.6

Lux distance Curve



ISO-Intensity(V-H)

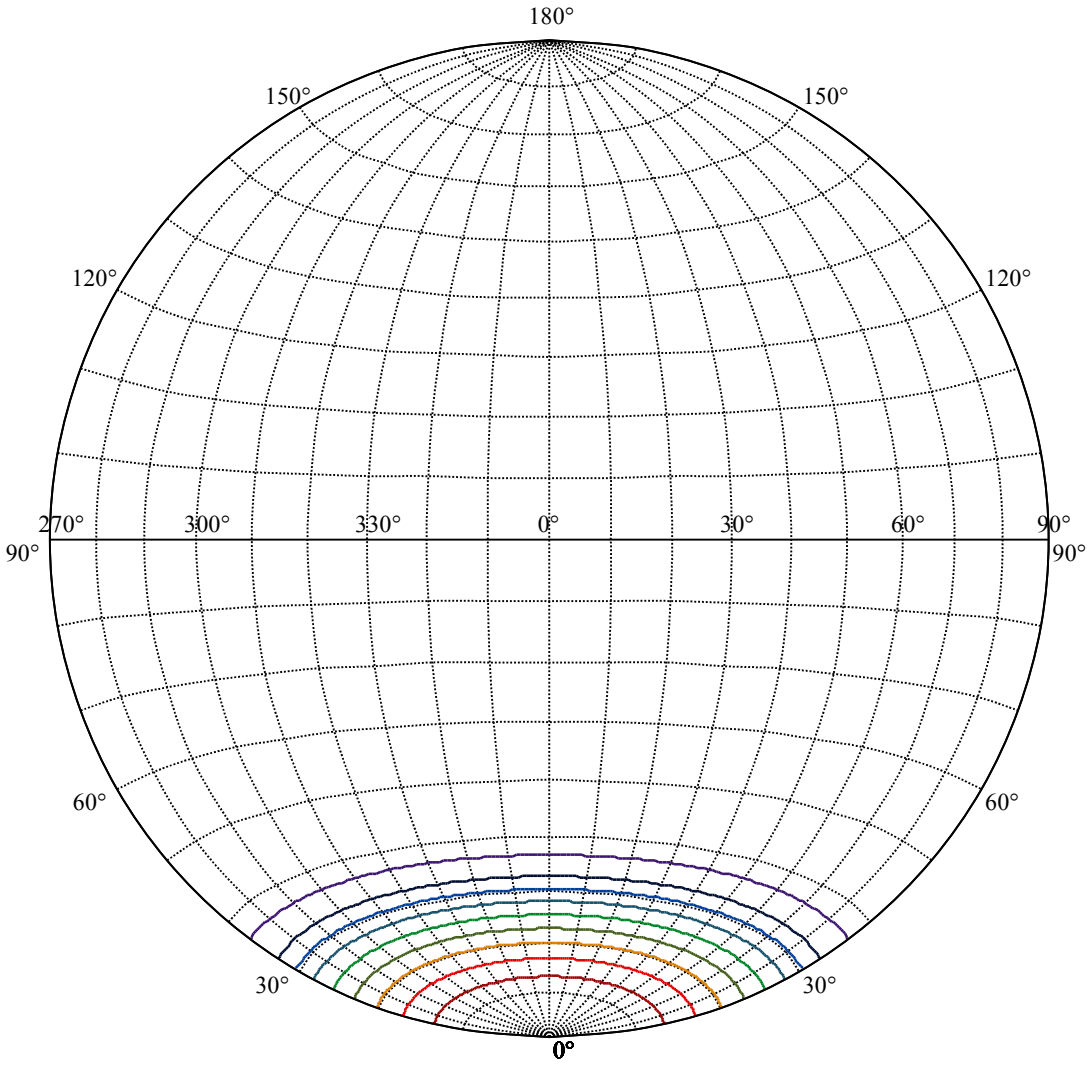


Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/9/2
Humidity(%): 60%

Operator: NT0

ISO candela diagram on circular web



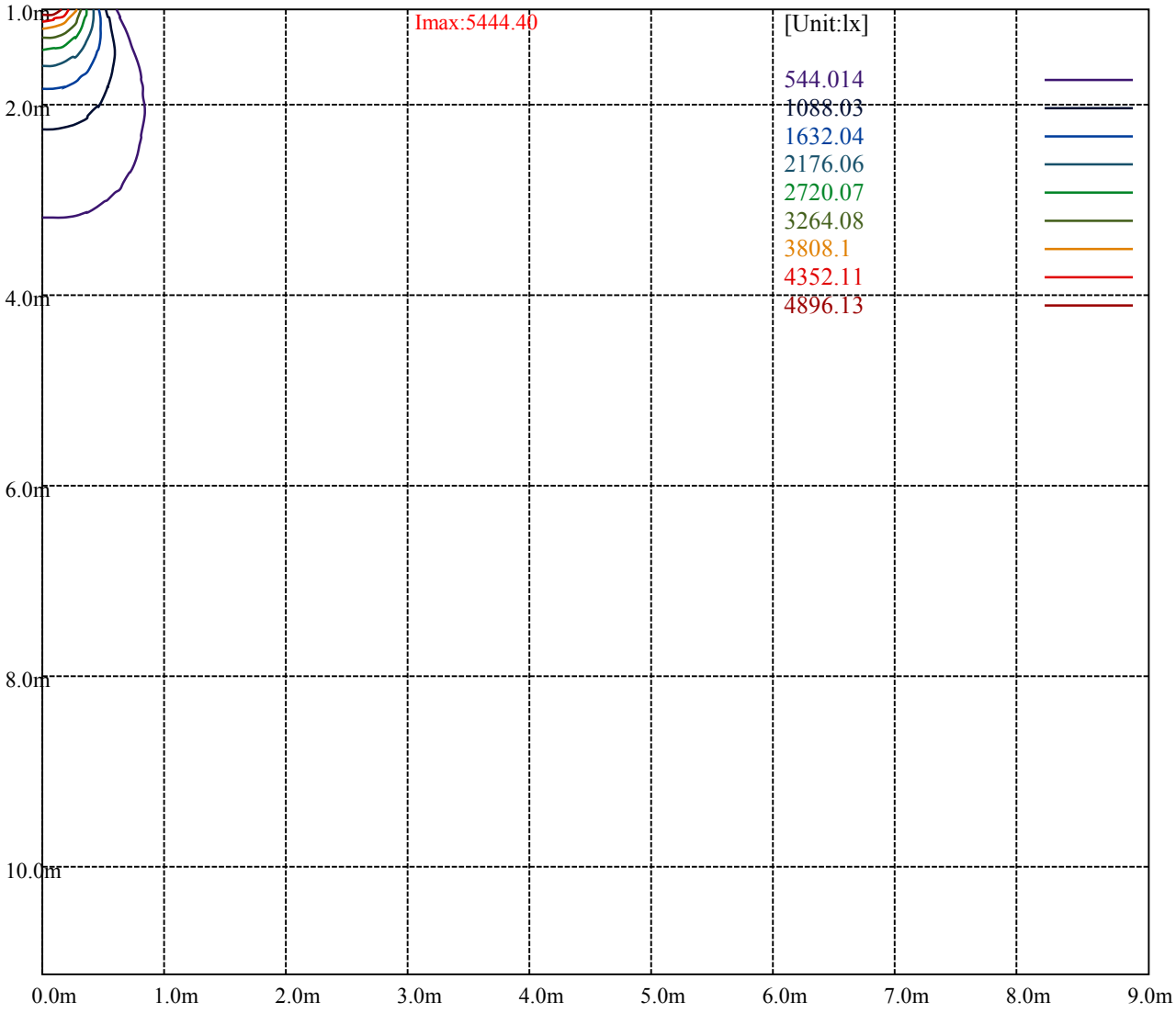
House [Unit:cd] Road

Imax:5444.40

(10%Imax) 544.44
(20%Imax) 1088.88
(30%Imax) 1633.32
(40%Imax) 2177.76
(50%Imax) 2722.2
(60%Imax) 3266.64
(70%Imax) 3811.08
(80%Imax) 4355.52
(90%Imax) 4899.96

Equipment: GMS 1800 Date: 2024/9/2 Operator: NT0
Temperature(°C): 25 Humidity(%): 60%

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/9/2
Humidity(%): 60%

Operator: NT0

Luminance Limitting Curve(no luminous side)

Luminance Table

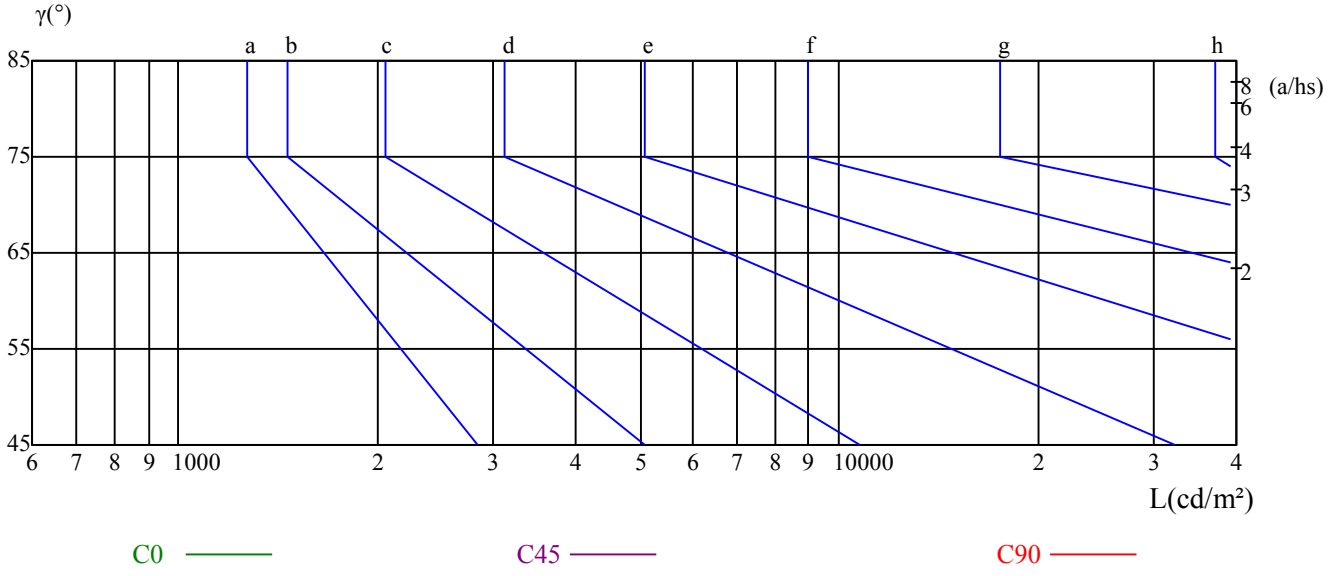
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

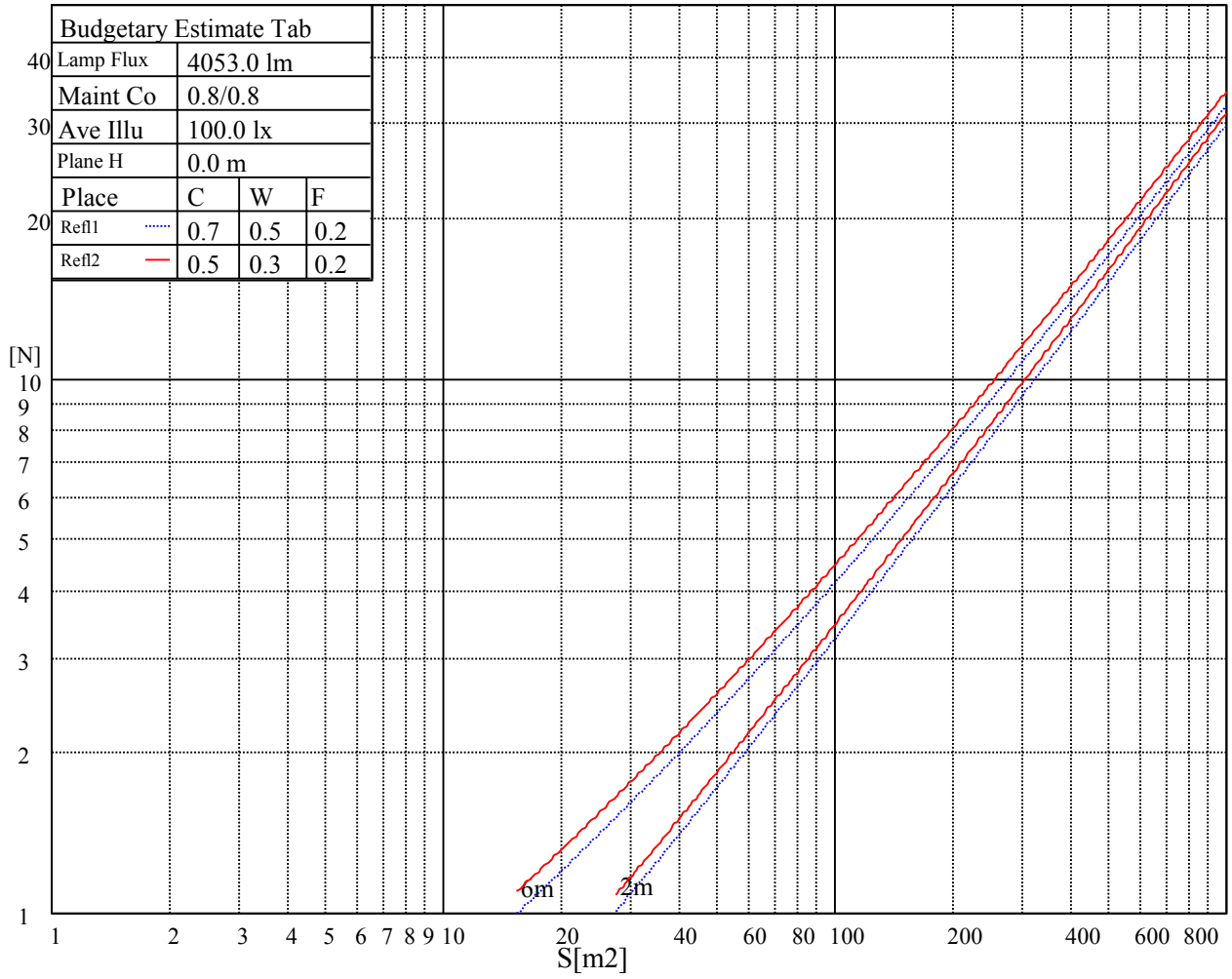
Luminance Limitting Curve



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

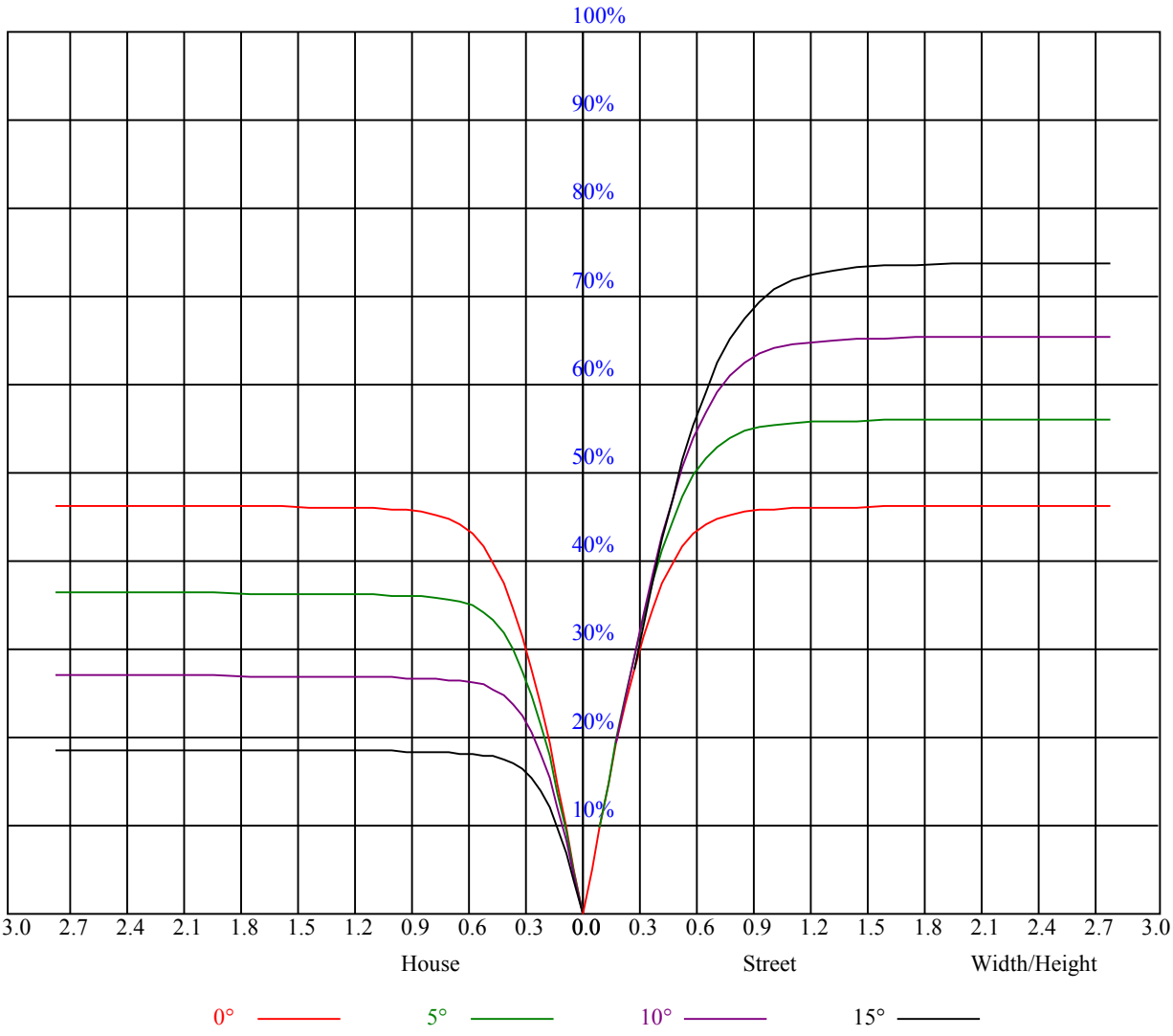


Equipment: GMS 1800 Date: 2024/9/2 Operator: NT0
Temperature(°C): 25 Humidity(%): 60%

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	0.97	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	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.76	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.72	0.67	0.64	0.72	0.67	0.64	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
8	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.63	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.52

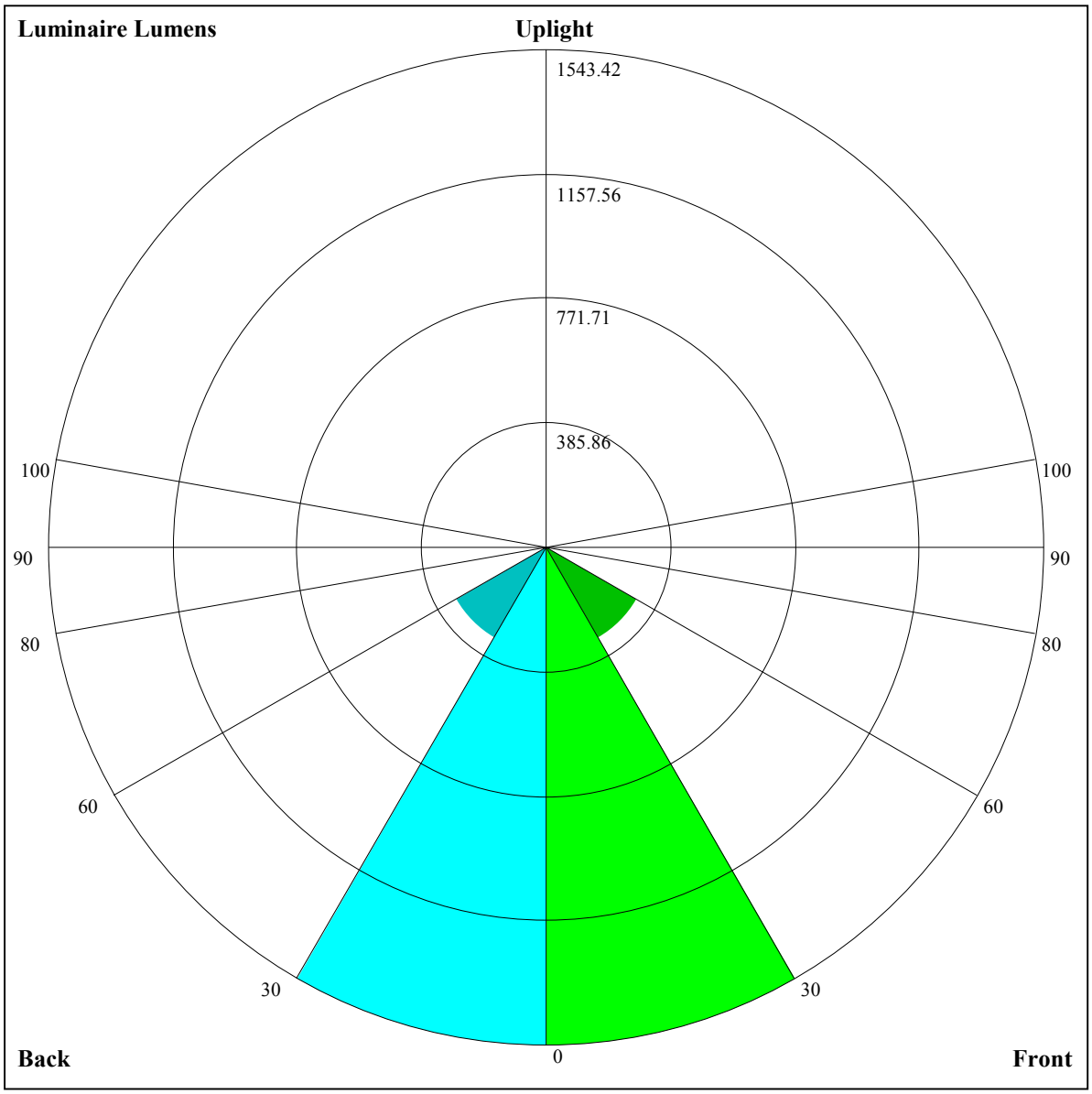
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25

Date: 2024/9/2
Humidity(%): 60%

Operator: NT0



Luminaire Lumens:
FL=1543.42,FM=324.19,FH=12.32,FVH=1.54
BL=1543.42,BM=324.19,BH=12.32,BVH=1.54
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	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
45.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
90.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
135.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
180.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
225.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
270.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
315.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78
360.0	5440.14	5439.59	5444.40	5441.76	5443.77	5432.97	5413.83	5393.70	5356.78

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
45.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
90.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
135.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
180.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
225.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
270.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
315.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17
360.0	5304.14	5234.56	5150.92	5053.14	4942.39	4820.04	4687.37	4530.72	4365.17

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
45.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
90.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
135.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
180.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
225.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
270.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
315.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85
360.0	4207.58	4029.62	3846.04	3658.00	3475.95	3265.21	3072.98	2867.17	2639.85

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
45.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
90.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
135.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
180.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
225.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
270.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
315.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74
360.0	2443.45	2222.67	1983.93	1757.29	1505.93	1285.99	1065.62	921.41	765.74

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
45.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
90.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
135.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
180.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
225.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
270.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
315.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85
360.0	632.68	521.87	429.57	359.78	305.14	254.76	205.51	163.75	135.85

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	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
45.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
90.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
135.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
180.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
225.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
270.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
315.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75
360.0	102.60	84.15	70.27	59.79	51.96	45.77	40.94	37.10	33.75

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
45.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
90.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
135.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
180.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
225.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
270.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
315.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28
360.0	30.95	28.59	26.47	24.86	23.10	21.72	20.59	19.52	18.28

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
45.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
90.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
135.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
180.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
225.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
270.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
315.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12
360.0	17.42	16.52	15.57	14.80	14.01	13.24	12.51	11.82	11.12

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
45.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
90.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
135.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
180.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
225.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
270.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
315.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36
360.0	10.45	9.78	9.13	8.54	7.90	7.28	6.58	6.01	5.36

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
45.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
90.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
135.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
180.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
225.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
270.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
315.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24
360.0	4.72	4.15	3.57	3.02	2.58	2.17	1.83	1.48	1.24

Intensity data(cd)

C/γ(°)	90.0
0.0	1.11
45.0	1.11
90.0	1.11
135.0	1.11
180.0	1.11
225.0	1.11
270.0	1.11
315.0	1.11
360.0	1.11