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: 2-2456-L
Luminaire: 92.70.411.00
Report No: 2024830-B012
Ballast type: AC

Test No: 2024830-C012	Voltage(V): 36.460
LampCAT: LUMILEDS LUXEON CoB 1205	Current(A): 0.598
Lamp flux(lm): 2555.0	Power (W): 21.800
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2276.86, Efficiency(%): 89.11% , Luminous Efficacy(lm/W): 104.44
Central intensity(cd): 5070.192, Maximum intensity(cd): 5070.192
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.8
[C90/270]Total=36.8
Field angle(10%Imax): [C0/180]Total=65.8
[C90/270]Total=65.8
Maximum s/h(1/2): C0_180=0.60 C90_270=0.60
Maximum s/h(1/4): C0_180=0.61 C90_270=0.61
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.11%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.133%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5070.192	0.000	0	0.00%	0.00%
1.0	5060.796	4.847	4.847	0.19%	0.21%
2.0	5032.032	14.486	19.334	0.57%	0.85%
3.0	4979.311	23.944	43.278	0.94%	1.90%
4.0	4915.231	33.120	76.398	1.30%	3.36%
5.0	4824.692	41.901	118.298	1.64%	5.20%
6.0	4727.537	50.200	168.498	1.96%	7.40%
7.0	4595.283	57.867	226.364	2.26%	9.94%
8.0	4454.803	64.770	291.134	2.54%	12.79%
9.0	4305.493	70.997	362.132	2.78%	15.90%
10.0	4135.414	76.387	438.519	2.99%	19.26%
11.0	3967.503	80.965	519.484	3.17%	22.82%
12.0	3771.451	84.598	604.081	3.31%	26.53%
13.0	3593.087	87.399	691.48	3.42%	30.37%
14.0	3398.842	89.496	780.976	3.50%	34.30%
15.0	3192.765	90.493	871.468	3.54%	38.28%
16.0	3010.294	90.892	962.361	3.56%	42.27%
17.0	2806.929	90.590	1052.95	3.55%	46.25%
18.0	2623.841	89.542	1142.492	3.50%	50.18%
19.0	2426.186	87.860	1230.352	3.44%	54.04%
20.0	2227.283	85.171	1315.524	3.33%	57.78%
21.0	2053.775	82.205	1397.729	3.22%	61.39%
22.0	1880.450	79.060	1476.789	3.09%	64.86%
23.0	1727.427	75.703	1552.492	2.96%	68.19%
24.0	1547.946	71.611	1624.103	2.80%	71.33%
25.0	1403.314	67.105	1691.208	2.63%	74.28%
26.0	1283.918	63.432	1754.64	2.48%	77.06%
27.0	1155.935	59.692	1814.332	2.34%	79.69%
28.0	1048.477	55.811	1870.143	2.18%	82.14%
29.0	933.871	51.864	1922.007	2.03%	84.41%
30.0	817.248	47.280	1969.287	1.85%	86.49%
31.0	701.230	42.257	2011.544	1.65%	88.35%
32.0	593.654	37.097	2048.641	1.45%	89.98%
33.0	493.424	32.026	2080.666	1.25%	91.38%
34.0	401.361	27.079	2107.745	1.06%	92.57%
35.0	329.311	22.692	2130.437	0.89%	93.57%
36.0	255.138	18.609	2149.046	0.73%	94.39%
37.0	202.819	14.936	2163.982	0.58%	95.04%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	166.163	12.316	2176.298	0.48%	95.58%
39.0	127.405	10.020	2186.319	0.39%	96.02%
40.0	92.510	7.670	2193.988	0.30%	96.36%
41.0	78.377	6.085	2200.074	0.24%	96.63%
42.0	69.632	5.377	2205.451	0.21%	96.86%
43.0	63.088	4.916	2210.367	0.19%	97.08%
44.0	57.300	4.544	2214.911	0.18%	97.28%
45.0	52.608	4.224	2219.135	0.17%	97.46%
46.0	47.812	3.927	2223.062	0.15%	97.64%
47.0	43.890	3.647	2226.71	0.14%	97.80%
48.0	40.151	3.397	2230.107	0.13%	97.95%
49.0	36.781	3.159	2233.266	0.12%	98.09%
50.0	33.831	2.944	2236.21	0.12%	98.21%
51.0	30.913	2.739	2238.949	0.11%	98.34%
52.0	28.555	2.552	2241.501	0.10%	98.45%
53.0	26.327	2.387	2243.889	0.09%	98.55%
54.0	24.534	2.242	2246.13	0.09%	98.65%
55.0	22.681	2.108	2248.238	0.08%	98.74%
56.0	21.110	1.979	2250.217	0.08%	98.83%
57.0	19.796	1.870	2252.087	0.07%	98.91%
58.0	18.403	1.766	2253.854	0.07%	98.99%
59.0	17.319	1.670	2255.524	0.07%	99.06%
60.0	16.196	1.583	2257.107	0.06%	99.13%
61.0	15.177	1.497	2258.604	0.06%	99.20%
62.0	14.277	1.419	2260.023	0.06%	99.26%
63.0	13.357	1.344	2261.368	0.05%	99.32%
64.0	12.608	1.274	2262.642	0.05%	99.38%
65.0	11.787	1.207	2263.849	0.05%	99.43%
66.0	11.084	1.141	2264.99	0.04%	99.48%
67.0	10.335	1.077	2266.067	0.04%	99.53%
68.0	9.704	1.015	2267.082	0.04%	99.57%
69.0	9.001	0.954	2268.037	0.04%	99.61%
70.0	8.325	0.890	2268.926	0.03%	99.65%
71.0	7.628	0.825	2269.751	0.03%	99.69%
72.0	6.971	0.759	2270.51	0.03%	99.72%
73.0	6.399	0.699	2271.209	0.03%	99.75%
74.0	5.861	0.645	2271.854	0.03%	99.78%
75.0	5.361	0.593	2272.447	0.02%	99.81%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.947	0.547	2272.994	0.02%	99.83%
77.0	4.520	0.505	2273.499	0.02%	99.85%
78.0	4.139	0.464	2273.962	0.02%	99.87%
79.0	3.725	0.423	2274.385	0.02%	99.89%
80.0	3.397	0.384	2274.769	0.02%	99.91%
81.0	3.022	0.347	2275.116	0.01%	99.92%
82.0	2.674	0.309	2275.425	0.01%	99.94%
83.0	2.378	0.275	2275.699	0.01%	99.95%
84.0	2.083	0.243	2275.943	0.01%	99.96%
85.0	1.794	0.212	2276.154	0.01%	99.97%
86.0	1.577	0.184	2276.338	0.01%	99.98%
87.0	1.340	0.160	2276.498	0.01%	99.98%
88.0	1.156	0.137	2276.635	0.01%	99.99%
89.0	0.992	0.118	2276.753	0.00%	100.00%
90.0	0.920	0.105	2276.857	0.00%	100.00%

Zonal flux distribution table

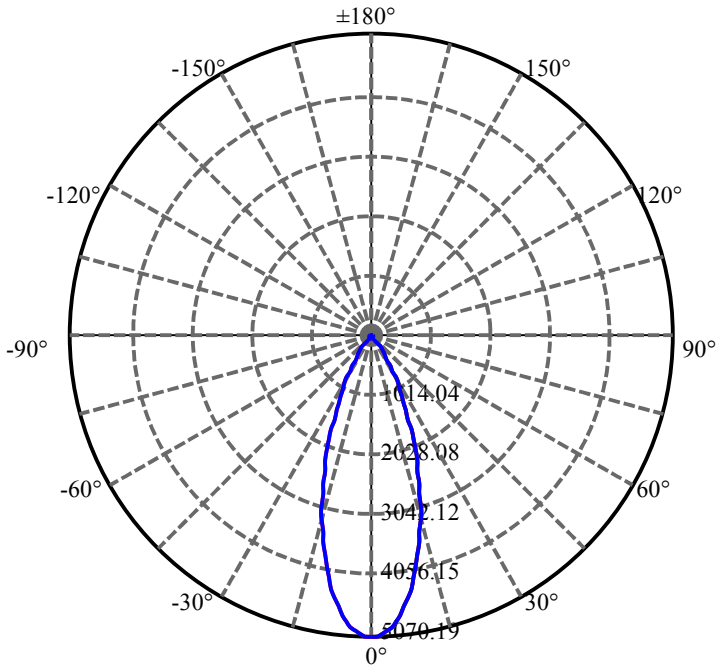
ZONAL LUMEN SUMMARY

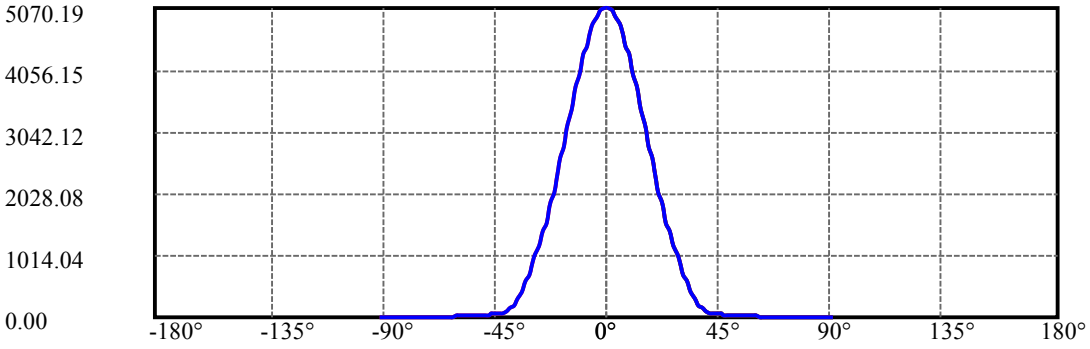
Zone	Lumens	%Lamp	%Fixt
0-30	1969.29	77.08%	86.49%
0-40	2193.99	85.87%	96.36%
0-60	2257.11	88.34%	99.13%
0-90	2276.75	89.11%	100.00%
0-120	2276.75	89.11%	100.00%
0-180	2276.86	89.11%	100.00%
60-90	19.65	0.77%	0.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.13	1821.49	71.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	438.52
10-20	877.00
20-30	653.76
30-40	224.70
40-50	42.22
50-60	20.90
60-70	11.82
70-80	5.84
80-90	1.98
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):

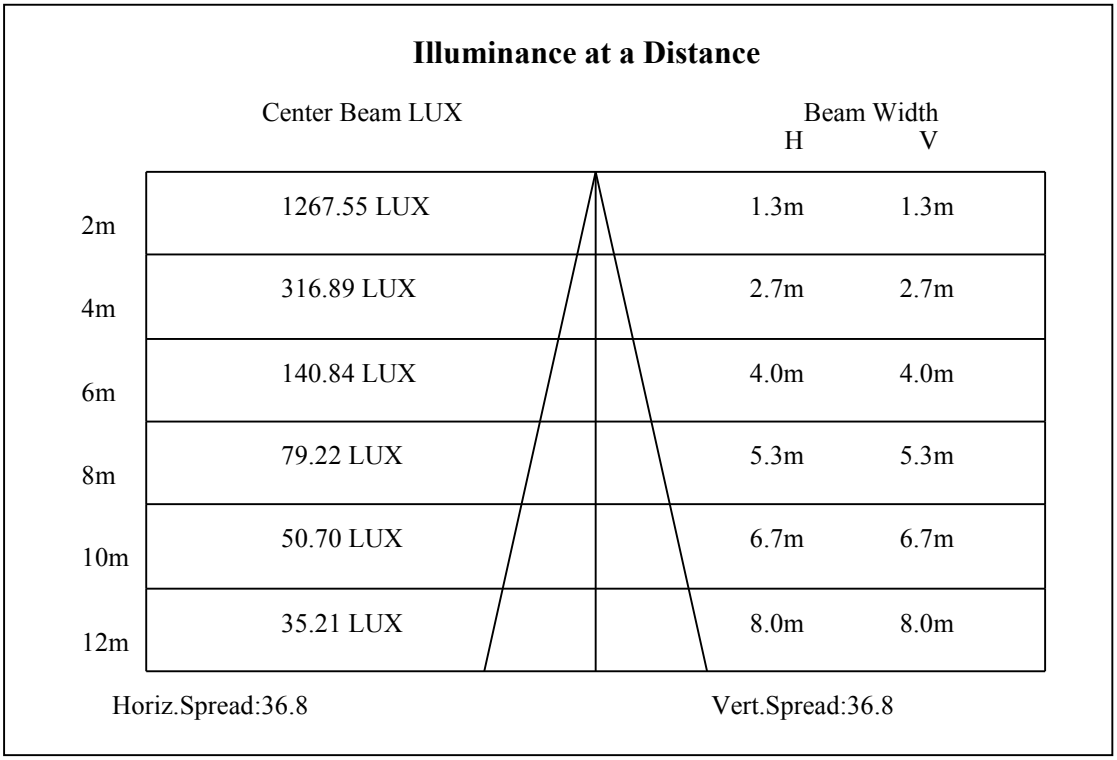
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:32.9 Right:32.9
:C90/270Left:32.9 Right:32.9

Beam Angle(50%Imax):C0/180Left:18.4 Right:18.4
:C90/270Left:18.4 Right:18.4

Lux distance Curve

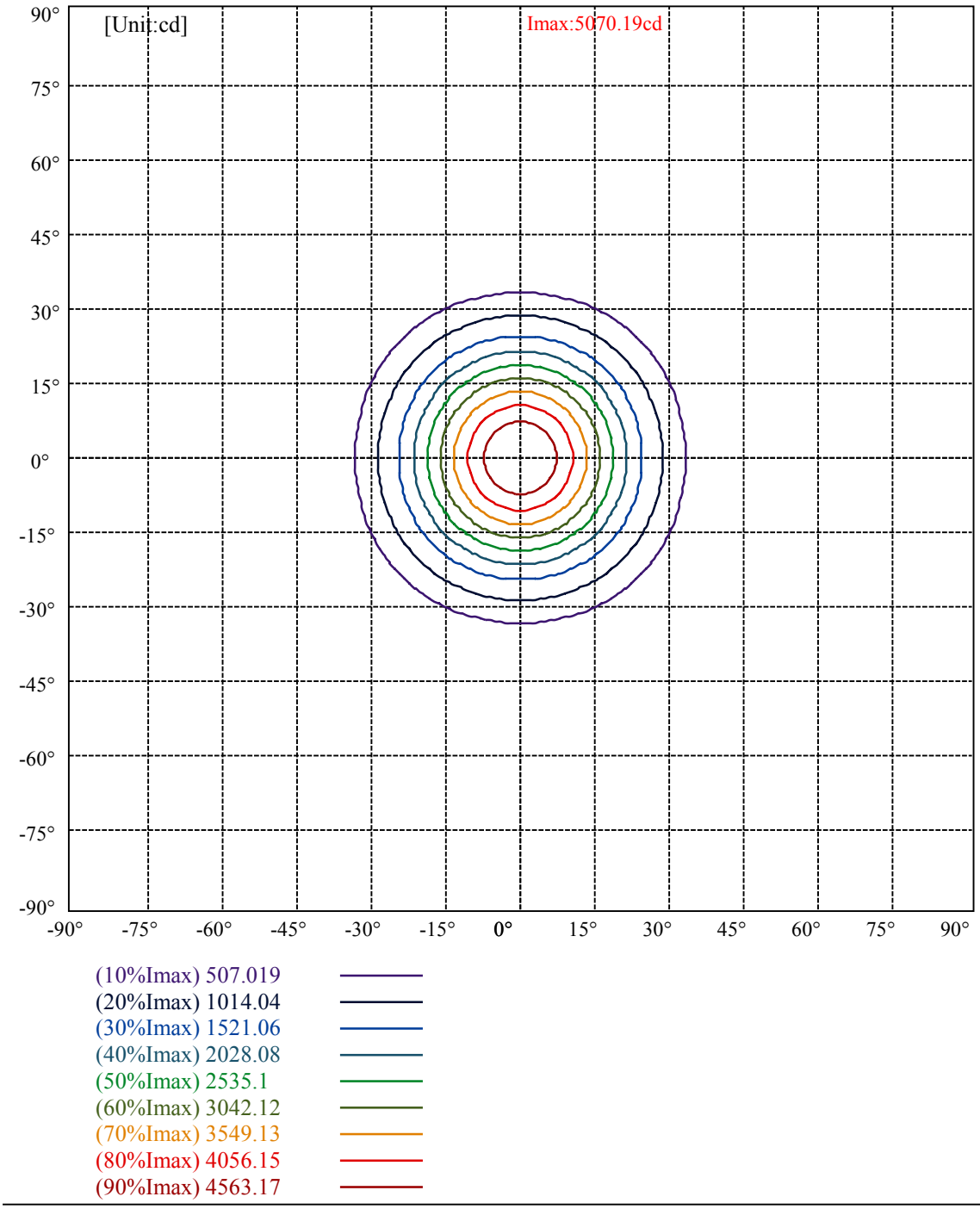


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO-Intensity(V-H)



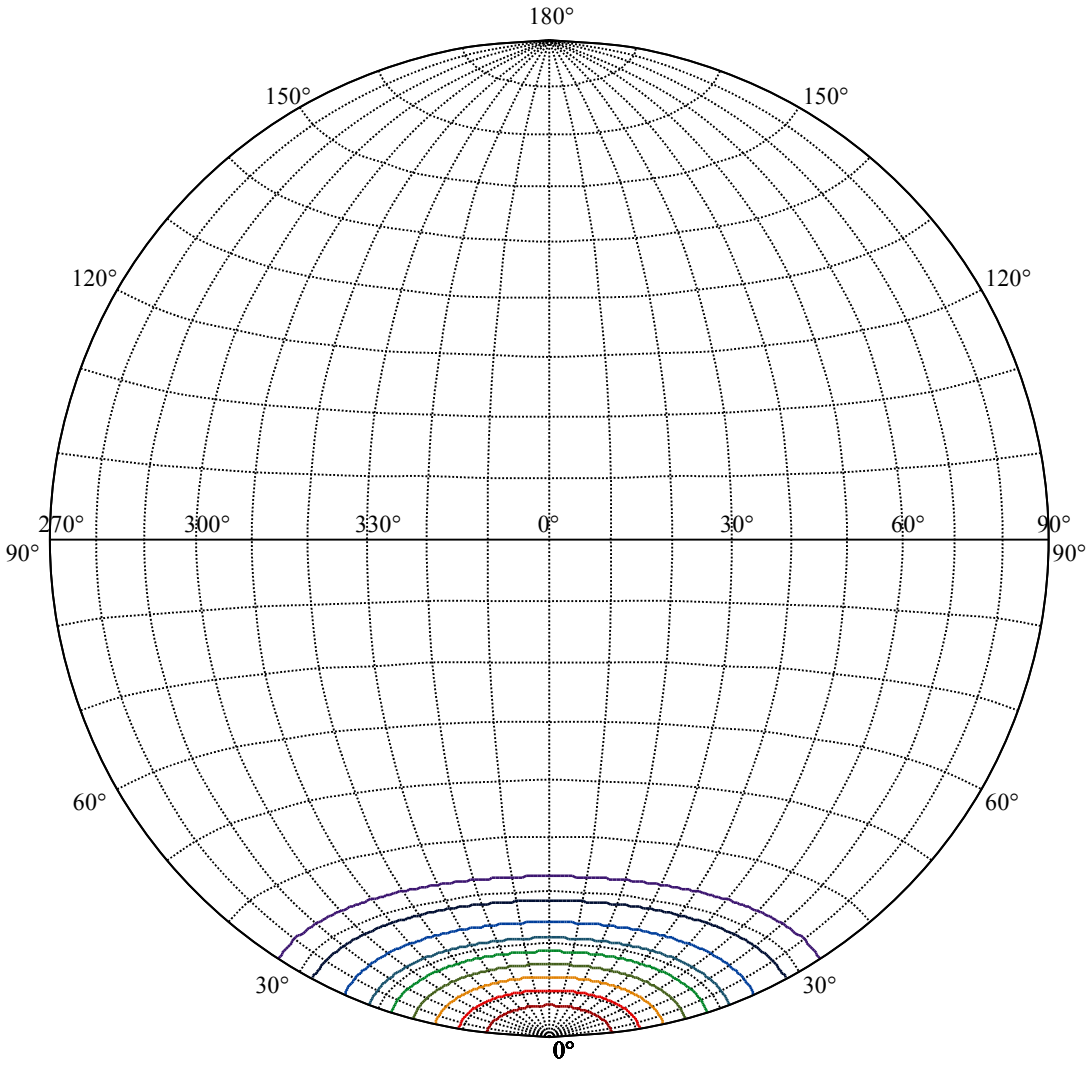
(10%Imax) 507.019
(20%Imax) 1014.04
(30%Imax) 1521.06
(40%Imax) 2028.08
(50%Imax) 2535.1
(60%Imax) 3042.12
(70%Imax) 3549.13
(80%Imax) 4056.15
(90%Imax) 4563.17

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5070.19

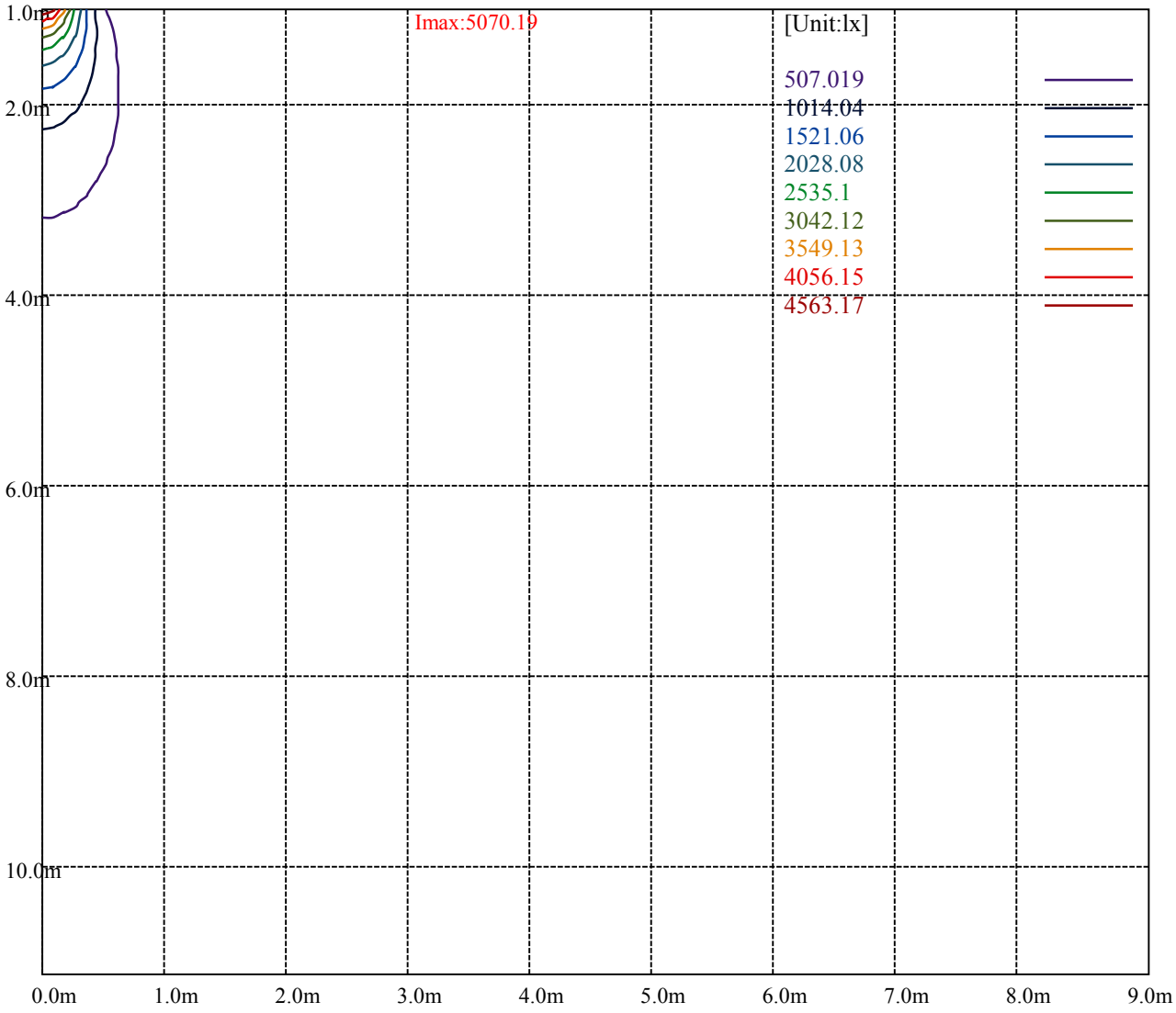
(10%Imax) 507.019
(20%Imax) 1014.04
(30%Imax) 1521.06
(40%Imax) 2028.08
(50%Imax) 2535.1
(60%Imax) 3042.12
(70%Imax) 3549.13
(80%Imax) 4056.15
(90%Imax) 4563.17

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Luminance Limitting Curve(no luminous side)

Luminance Table

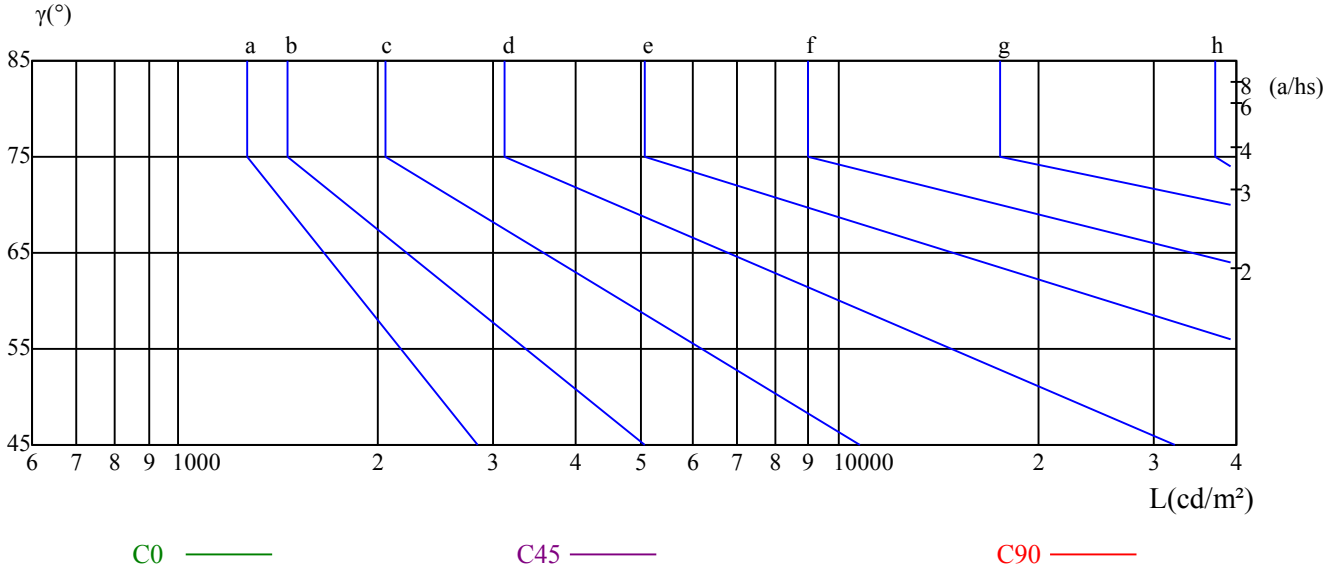
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

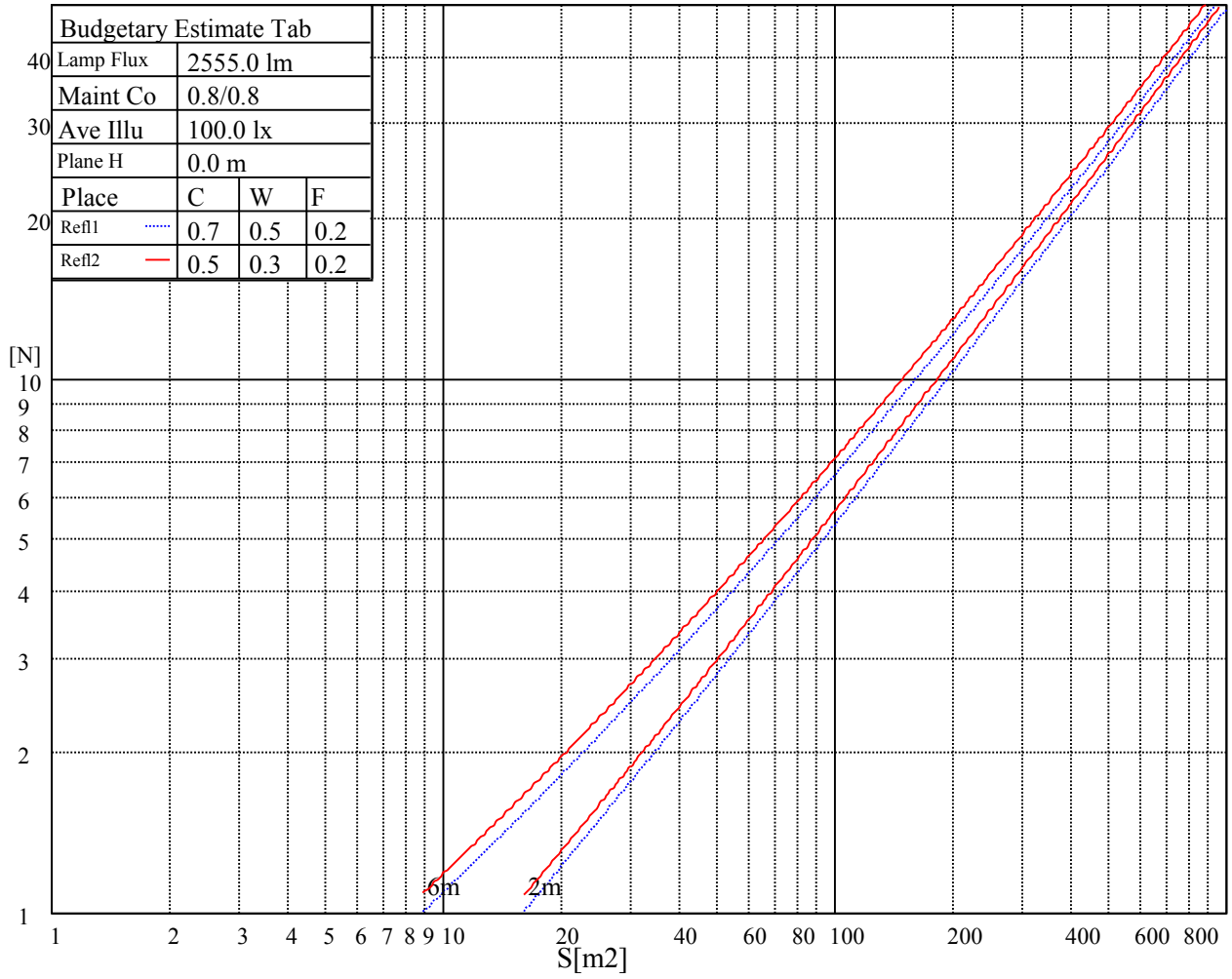
Luminance Limitting Curve



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

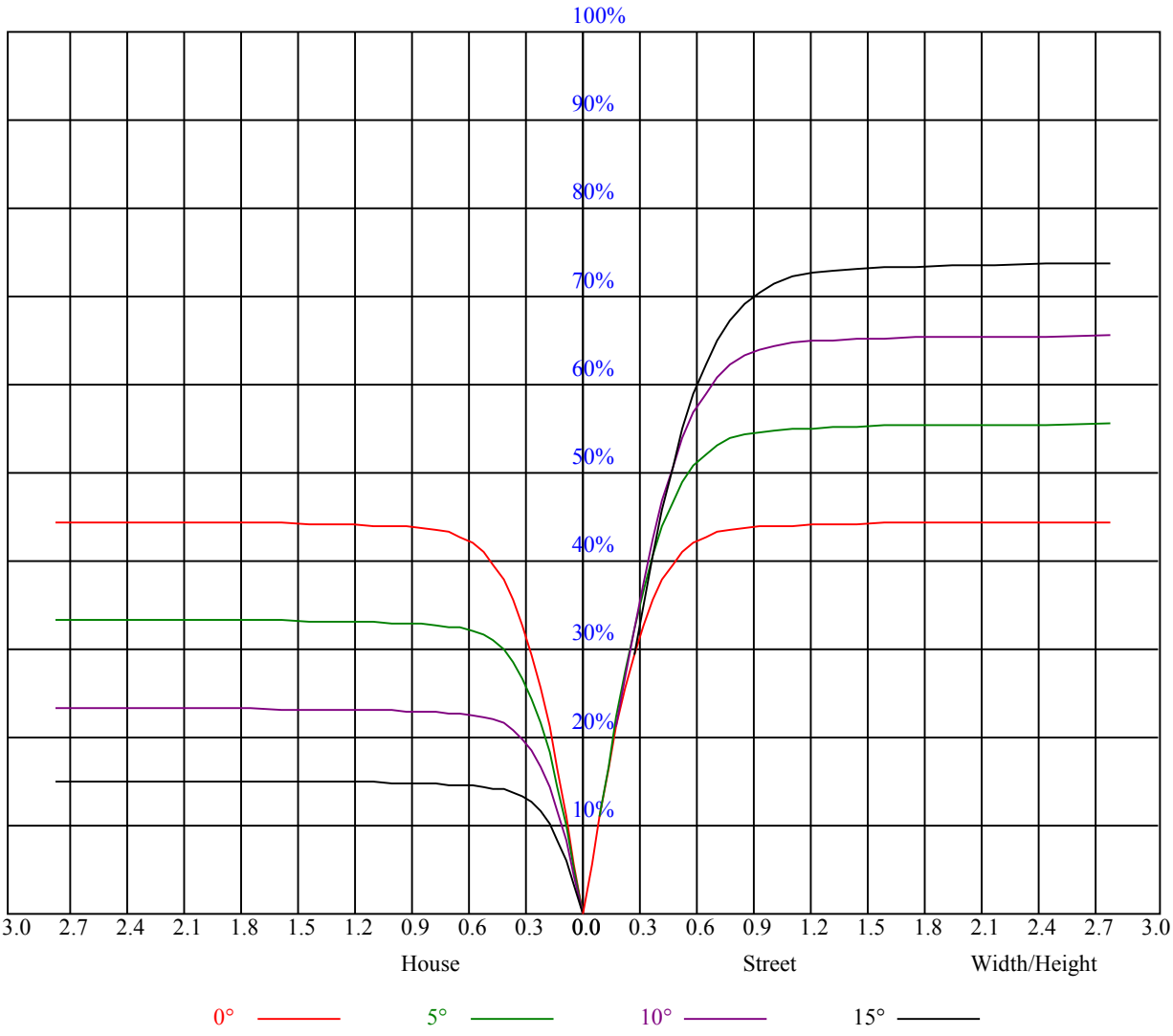


Equipment: GMS 1800 Date: 2024/8/30 Operator: NT
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.25

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.90	0.88	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.72	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
8	0.69	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve

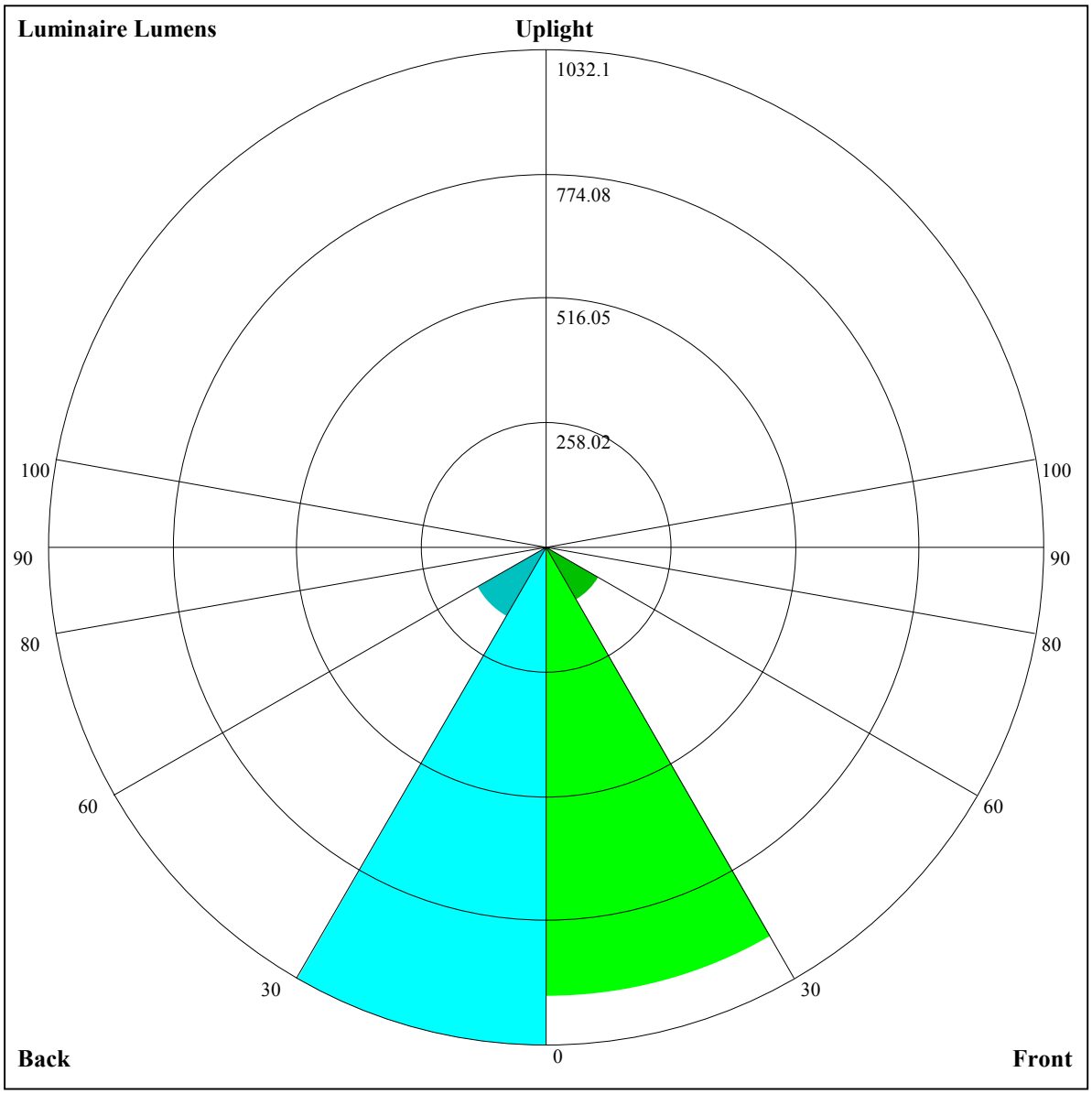


Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/30
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

LCS Graph



Luminaire Lumens:

FL=930.94,FM=125.43,FH=8.36,FVH=0.94

BL=1032.1,BM=166.37,BH=9.38,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	5036.49	4984.13	4904.45	4814.20	4748.97	4574.62	4485.47	4323.32	4155.07
45.0	5089.99	5058.77	5040.38	4938.98	4889.94	4792.44	4676.54	4543.40	4381.82
90.0	5069.34	5029.81	4972.41	4897.20	4799.69	4696.04	4573.46	4409.68	4257.56
135.0	5084.95	5097.77	5066.55	5041.48	4974.09	4906.66	4856.51	4709.44	4581.29
180.0	5036.49	5083.85	5103.92	5091.10	5058.77	5015.30	4953.49	4854.30	4751.76
225.0	5089.99	5091.62	5076.59	5046.53	4978.56	4899.40	4788.55	4662.61	4527.79
270.0	5069.34	5083.85	5089.99	5058.77	5008.05	4946.24	4844.27	4755.12	4636.43
315.0	5084.95	5056.57	5001.95	4946.24	4863.77	4766.84	4642.00	4504.40	4346.71
360.0	5036.49	4984.13	4904.45	4814.20	4748.97	4574.62	4485.47	4323.32	4155.07

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3965.63	3768.36	3580.08	3380.03	3183.34	2987.81	2785.55	2576.04	2377.72
45.0	4206.89	4023.55	3846.37	3656.41	3468.07	3270.86	3068.02	2870.81	2667.44
90.0	4088.73	3894.88	3702.08	3507.08	3317.64	3127.63	2924.26	2728.15	2524.79
135.0	4496.04	4336.67	4170.68	3978.98	3794.59	3591.75	3395.64	3202.32	3008.41
180.0	4632.54	4501.03	4345.03	4180.14	3996.27	3815.72	3608.47	3458.61	3216.77
225.0	4384.61	4233.07	4054.78	3874.80	3681.48	3491.46	3309.28	3105.92	2913.12
270.0	4499.40	4336.14	4168.42	3996.27	3820.19	3627.44	3439.11	3250.20	3058.56
315.0	4170.10	3989.60	3872.59	3597.90	3483.11	3278.06	3011.78	2890.31	2688.62
360.0	3965.63	3768.36	3580.08	3380.03	3183.34	2987.81	2785.55	2576.04	2377.72

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2178.82	1982.13	1808.31	1653.41	1510.75	1379.82	1082.21	1082.21	1027.81
45.0	2457.93	2254.56	2061.82	1878.48	1711.91	1621.66	1422.18	1294.56	1216.56
90.0	2400.53	2206.68	1932.51	1832.22	1672.91	1526.94	1394.85	1103.76	1050.78
135.0	2813.99	2615.62	2411.15	2223.92	2033.96	1859.56	1702.45	1559.79	1423.87
180.0	3031.28	2879.69	2686.94	2495.25	2302.50	2119.16	1937.56	1768.73	1627.23
225.0	2761.06	2527.05	2368.26	2178.24	1997.74	1830.02	1663.45	1517.43	1384.29
270.0	2861.87	2661.87	2462.97	2266.81	2079.64	1896.30	1735.30	1580.40	1494.04
315.0	2485.26	2281.90	2086.31	1901.87	1734.19	1585.97	1445.57	1319.63	1046.78
360.0	2178.82	1982.13	1808.31	1653.41	1510.75	1379.82	1082.21	1082.21	1027.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	896.03	776.14	662.29	556.06	456.98	367.62	287.73	217.50	156.90
45.0	1084.52	951.38	827.12	714.59	599.27	494.51	406.47	324.57	293.35
90.0	1023.92	890.57	766.36	674.27	550.17	455.30	384.76	289.41	228.96
135.0	1302.92	1184.29	1049.41	940.24	810.41	669.44	581.39	478.32	385.28
180.0	1489.04	1364.21	1243.31	1112.96	976.45	842.16	717.90	603.68	496.19
225.0	1089.62	1063.92	1015.09	885.15	761.89	689.09	539.24	450.30	398.58
270.0	1314.64	1242.79	1117.95	979.77	844.94	724.63	612.62	514.53	422.08
315.0	1046.78	914.53	789.44	674.96	609.73	506.49	417.29	332.56	253.14
360.0	896.03	776.14	662.29	556.06	456.98	367.62	287.73	217.50	156.90

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	111.70	89.67	80.11	72.43	64.76	58.87	55.56	48.94	46.31
45.0	214.24	127.04	108.23	83.99	74.74	69.96	60.55	57.14	52.19
90.0	166.20	112.01	92.19	81.47	72.96	65.39	59.45	54.19	49.72
135.0	304.49	304.49	168.99	121.63	95.03	83.99	75.37	67.49	61.13
180.0	402.00	316.74	301.71	301.71	147.49	110.17	91.88	82.58	74.22
225.0	315.64	241.31	180.60	130.46	98.19	83.21	74.69	66.81	60.50
270.0	337.92	291.67	291.67	138.92	108.23	85.15	76.53	70.43	62.34
315.0	188.91	139.61	105.81	88.62	78.69	70.28	63.02	57.14	51.98
360.0	111.70	89.67	80.11	72.43	64.76	58.87	55.56	48.94	46.31

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	42.26	38.74	35.48	32.75	30.17	27.96	25.91	23.97	22.29
45.0	47.73	43.57	39.89	36.53	33.48	30.75	28.38	26.28	24.34
90.0	45.52	41.84	38.42	35.32	32.64	30.01	28.12	26.02	24.44
135.0	57.71	50.57	47.73	43.26	39.26	35.58	32.22	29.22	26.44
180.0	67.17	61.03	55.72	50.78	46.52	42.37	38.74	35.43	32.48
225.0	55.24	50.67	46.26	42.42	38.90	35.74	32.54	30.12	27.81
270.0	57.82	52.93	48.36	44.21	40.42	37.06	33.85	31.12	28.54
315.0	47.41	43.15	39.26	35.95	32.85	31.17	27.54	26.28	24.28
360.0	42.26	38.74	35.48	32.75	30.17	27.96	25.91	23.97	22.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.71	19.13	17.77	16.66	15.51	14.45	13.56	12.72	11.93
45.0	22.65	21.03	19.76	18.45	17.14	16.56	15.03	14.19	13.67
90.0	23.65	21.50	20.45	19.50	17.92	17.50	16.29	15.35	14.40
135.0	24.23	22.23	20.50	18.92	17.56	16.29	15.19	14.19	13.25
180.0	29.91	27.96	25.44	24.07	22.50	20.55	19.50	18.19	17.08
225.0	26.18	24.13	22.76	21.29	19.82	18.92	17.87	16.66	15.61
270.0	26.39	24.55	22.71	21.24	19.71	18.24	17.08	15.98	14.93
315.0	22.55	20.92	19.50	18.24	17.08	16.03	15.03	14.14	13.35
360.0	20.71	19.13	17.77	16.66	15.51	14.45	13.56	12.72	11.93

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.46	10.46	9.72	9.36	8.73	8.09	7.46	6.78	6.20
45.0	12.46	12.04	11.20	10.41	9.67	9.04	8.30	7.57	6.89
90.0	13.25	12.62	11.93	10.83	10.14	9.30	8.52	7.78	6.89
135.0	12.46	11.67	10.99	10.46	9.67	9.25	8.67	8.20	7.62
180.0	15.98	15.03	14.24	13.40	12.51	11.62	10.99	10.25	9.41
225.0	14.61	13.67	12.88	11.83	11.09	10.72	9.67	8.94	8.20
270.0	14.19	13.61	12.35	11.98	11.14	10.46	9.88	9.15	8.36
315.0	12.46	11.77	10.99	10.41	9.72	9.15	8.52	7.94	7.46
360.0	11.46	10.46	9.72	9.36	8.73	8.09	7.46	6.78	6.20

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.73	5.26	4.84	4.47	4.05	3.68	3.26	2.94	2.63
45.0	6.20	5.68	5.15	4.78	4.36	3.94	3.57	3.26	2.89
90.0	6.10	5.57	5.05	4.63	4.21	3.89	3.68	3.05	2.94
135.0	7.15	6.73	6.25	5.73	5.41	4.99	4.57	4.10	3.78
180.0	8.67	8.04	7.25	6.52	6.10	5.41	4.94	4.73	4.15
225.0	7.46	6.73	6.15	5.68	5.20	4.78	4.52	3.89	3.73
270.0	7.73	6.99	6.41	5.83	5.31	4.94	4.52	4.10	3.73
315.0	6.73	6.20	5.78	5.26	4.94	4.52	4.05	3.73	3.31
360.0	5.73	5.26	4.84	4.47	4.05	3.68	3.26	2.94	2.63

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.26	2.05	1.73	1.47	1.31	1.16	1.05	0.89	0.89
45.0	2.52	2.21	2.00	1.68	1.42	1.26	1.10	0.95	0.84
90.0	2.47	2.16	1.94	1.73	1.47	1.26	1.05	0.95	0.79
135.0	3.42	3.05	2.73	2.31	2.00	1.79	1.52	1.31	1.16
180.0	3.89	3.36	3.10	2.84	2.47	2.16	1.89	1.58	1.37
225.0	3.31	2.94	2.63	2.31	2.00	1.73	1.47	1.31	1.05
270.0	3.31	3.00	2.52	2.26	1.94	1.73	1.42	1.21	1.05
315.0	3.00	2.63	2.37	2.05	1.73	1.52	1.21	1.05	0.79
360.0	2.26	2.05	1.73	1.47	1.31	1.16	1.05	0.89	0.89

Intensity data(cd)

C/γ(°)	90.0
0.0	0.89
45.0	0.89
90.0	0.84
135.0	1.00
180.0	1.16
225.0	0.95
270.0	0.84
315.0	0.79
360.0	0.89