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: 2-2759-L
Luminaire: 92.70.411.00
Report No: 2024831-B008
Ballast type: AC

Test No: 2024831-C008	Voltage(V): 36.350
LampCAT: LUMILEDS LUXEON CoB 1205	Current(A): 0.598
Lamp flux(lm): 2551.0	Power (W): 21.730
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2375.38, Efficiency(%): 93.12% , Luminous Efficacy(lm/W): 109.31
Central intensity(cd): 5162.965, Maximum intensity(cd): 5162.965
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=36.6
[C90/270]Total=36.6
Field angle(10%Imax): [C0/180]Total=68.2
[C90/270]Total=68.2
Maximum s/h(1/2): C0_180=0.59 C90_270=0.59
Maximum s/h(1/4): C0_180=0.63 C90_270=0.63
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.12%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 99.174%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5162.965	0.000	0	0.00%	0.00%
1.0	5152.656	4.936	4.936	0.19%	0.21%
2.0	5127.097	14.754	19.69	0.58%	0.83%
3.0	5067.971	24.383	44.074	0.96%	1.86%
4.0	4985.855	33.653	77.727	1.32%	3.27%
5.0	4858.266	42.349	120.076	1.66%	5.06%
6.0	4726.703	50.372	170.447	1.97%	7.18%
7.0	4584.008	57.791	228.239	2.27%	9.61%
8.0	4413.772	64.395	292.634	2.52%	12.32%
9.0	4261.051	70.305	362.939	2.76%	15.28%
10.0	4072.319	75.414	438.353	2.96%	18.45%
11.0	3907.253	79.732	518.085	3.13%	21.81%
12.0	3726.806	83.451	601.536	3.27%	25.32%
13.0	3548.928	86.345	687.881	3.38%	28.96%
14.0	3358.106	88.409	776.29	3.47%	32.68%
15.0	3184.131	89.815	866.105	3.52%	36.46%
16.0	3005.497	90.695	956.801	3.56%	40.28%
17.0	2810.905	90.577	1047.378	3.55%	44.09%
18.0	2632.678	89.753	1137.13	3.52%	47.87%
19.0	2447.481	88.384	1225.515	3.46%	51.59%
20.0	2263.282	86.220	1311.735	3.38%	55.22%
21.0	2094.944	83.687	1395.422	3.28%	58.75%
22.0	1943.262	81.149	1476.571	3.18%	62.16%
23.0	1800.141	78.547	1555.118	3.08%	65.47%
24.0	1668.360	75.834	1630.952	2.97%	68.66%
25.0	1545.646	73.079	1704.031	2.86%	71.74%
26.0	1430.311	70.248	1774.279	2.75%	74.69%
27.0	1279.759	66.302	1840.581	2.60%	77.49%
28.0	1190.481	62.541	1903.123	2.45%	80.12%
29.0	1101.638	59.968	1963.091	2.35%	82.64%
30.0	996.053	56.637	2019.728	2.22%	85.03%
31.0	876.118	52.100	2071.828	2.04%	87.22%
32.0	764.660	47.006	2118.834	1.84%	89.20%
33.0	648.457	41.631	2160.465	1.63%	90.95%
34.0	528.431	35.616	2196.081	1.40%	92.45%
35.0	417.727	29.384	2225.466	1.15%	93.69%
36.0	326.663	23.702	2249.167	0.93%	94.69%
37.0	250.342	18.819	2267.986	0.74%	95.48%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	201.932	15.096	2283.082	0.59%	96.11%
39.0	140.874	11.701	2294.783	0.46%	96.61%
40.0	90.118	8.056	2302.839	0.32%	96.95%
41.0	73.496	5.826	2308.665	0.23%	97.19%
42.0	64.133	5.000	2313.666	0.20%	97.40%
43.0	55.992	4.450	2318.115	0.17%	97.59%
44.0	49.442	3.979	2322.095	0.16%	97.76%
45.0	44.842	3.623	2325.718	0.14%	97.91%
46.0	39.770	3.309	2329.027	0.13%	98.05%
47.0	35.775	3.005	2332.032	0.12%	98.17%
48.0	32.070	2.743	2334.775	0.11%	98.29%
49.0	28.739	2.497	2337.272	0.10%	98.40%
50.0	26.275	2.294	2339.565	0.09%	98.49%
51.0	23.844	2.120	2341.686	0.08%	98.58%
52.0	21.965	1.966	2343.651	0.08%	98.66%
53.0	20.197	1.834	2345.485	0.07%	98.74%
54.0	18.811	1.719	2347.205	0.07%	98.81%
55.0	17.503	1.621	2348.826	0.06%	98.88%
56.0	16.400	1.532	2350.358	0.06%	98.95%
57.0	15.302	1.449	2351.807	0.06%	99.01%
58.0	14.481	1.377	2353.184	0.05%	99.07%
59.0	13.719	1.318	2354.503	0.05%	99.12%
60.0	13.003	1.262	2355.765	0.05%	99.17%
61.0	12.418	1.213	2356.978	0.05%	99.23%
62.0	11.925	1.173	2358.151	0.05%	99.27%
63.0	11.360	1.132	2359.284	0.04%	99.32%
64.0	10.802	1.087	2360.371	0.04%	99.37%
65.0	10.210	1.040	2361.411	0.04%	99.41%
66.0	9.750	0.996	2362.407	0.04%	99.45%
67.0	9.310	0.958	2363.365	0.04%	99.49%
68.0	8.896	0.922	2364.288	0.04%	99.53%
69.0	8.745	0.900	2365.188	0.04%	99.57%
70.0	8.482	0.885	2366.073	0.03%	99.61%
71.0	8.338	0.869	2366.942	0.03%	99.64%
72.0	8.167	0.858	2367.8	0.03%	99.68%
73.0	7.957	0.843	2368.643	0.03%	99.72%
74.0	7.595	0.818	2369.461	0.03%	99.75%
75.0	6.781	0.760	2370.22	0.03%	99.78%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.946	0.676	2370.896	0.03%	99.81%
77.0	5.263	0.598	2371.494	0.02%	99.84%
78.0	4.671	0.532	2372.025	0.02%	99.86%
79.0	4.179	0.476	2372.501	0.02%	99.88%
80.0	3.804	0.430	2372.931	0.02%	99.90%
81.0	3.449	0.392	2373.324	0.02%	99.91%
82.0	3.042	0.352	2373.676	0.01%	99.93%
83.0	2.740	0.314	2373.99	0.01%	99.94%
84.0	2.405	0.280	2374.27	0.01%	99.95%
85.0	2.142	0.248	2374.518	0.01%	99.96%
86.0	1.879	0.220	2374.738	0.01%	99.97%
87.0	1.662	0.194	2374.932	0.01%	99.98%
88.0	1.426	0.169	2375.101	0.01%	99.99%
89.0	1.281	0.148	2375.249	0.01%	99.99%
90.0	1.163	0.134	2375.383	0.01%	100.00%

Zonal flux distribution table

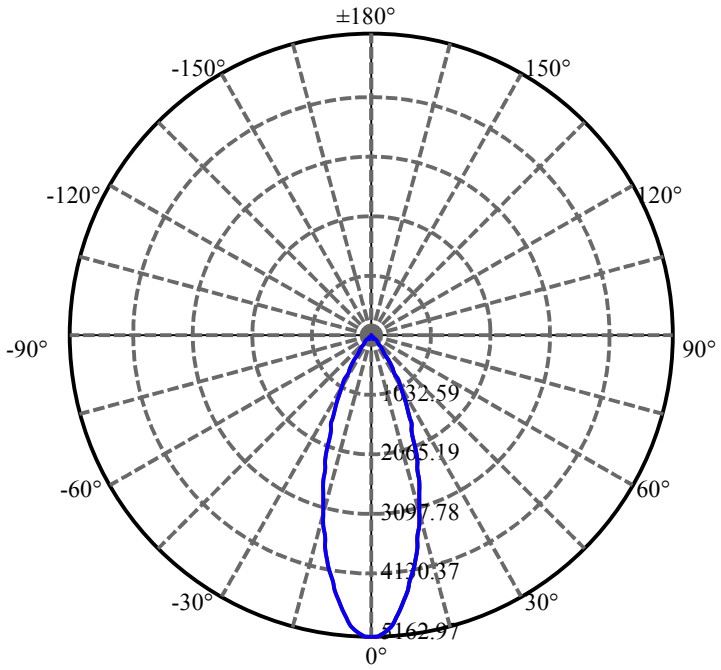
ZONAL LUMEN SUMMARY

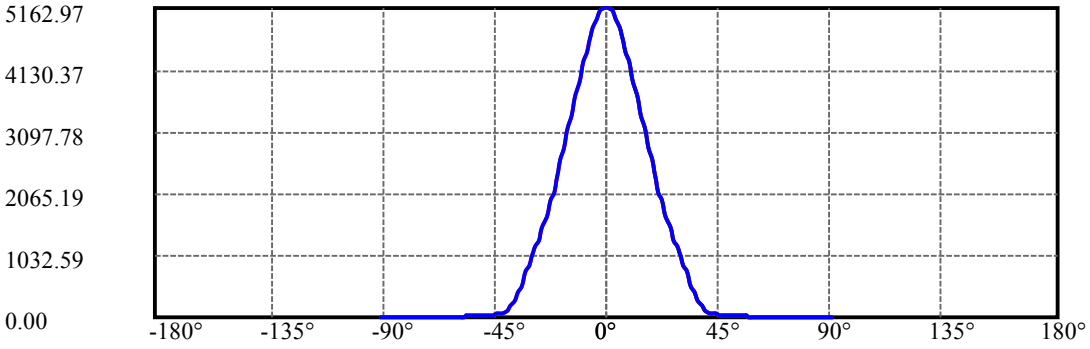
Zone	Lumens	%Lamp	%Fixt
0-30	2019.73	79.17%	85.03%
0-40	2302.84	90.27%	96.95%
0-60	2355.77	92.35%	99.17%
0-90	2375.25	93.11%	99.99%
0-120	2375.25	93.11%	99.99%
0-180	2375.38	93.12%	100.00%
60-90	19.48	0.76%	0.82%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.95	1900.31	74.49%	80.00%

ZONAL LUMEN SUMMARY

0-10	438.35
10-20	873.38
20-30	707.99
30-40	283.11
40-50	36.73
50-60	16.20
60-70	10.31
70-80	6.86
80-90	2.32
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:34.1 Right:34.1
:C90/270Left:34.1 Right:34.1

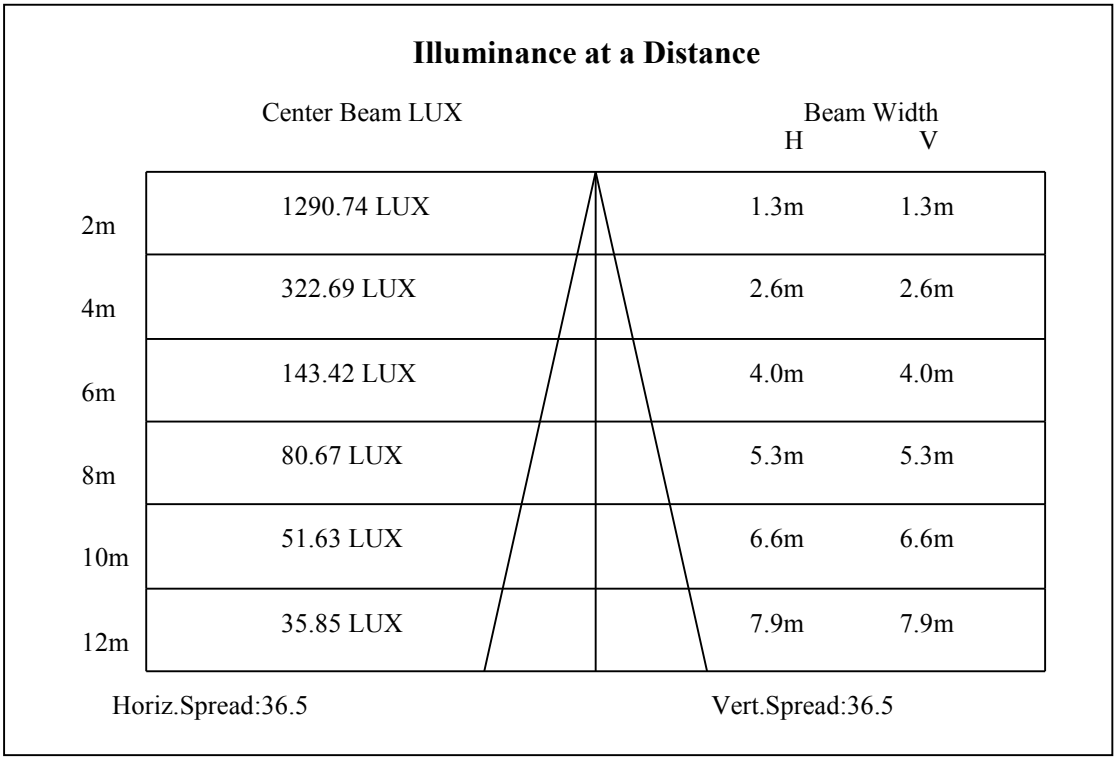
Beam Angle(50%Imax):C0/180Left:18.3 Right:18.3
:C90/270Left:18.3 Right:18.3

Equipment: GMS 1800
Temperature(°C): 25.0

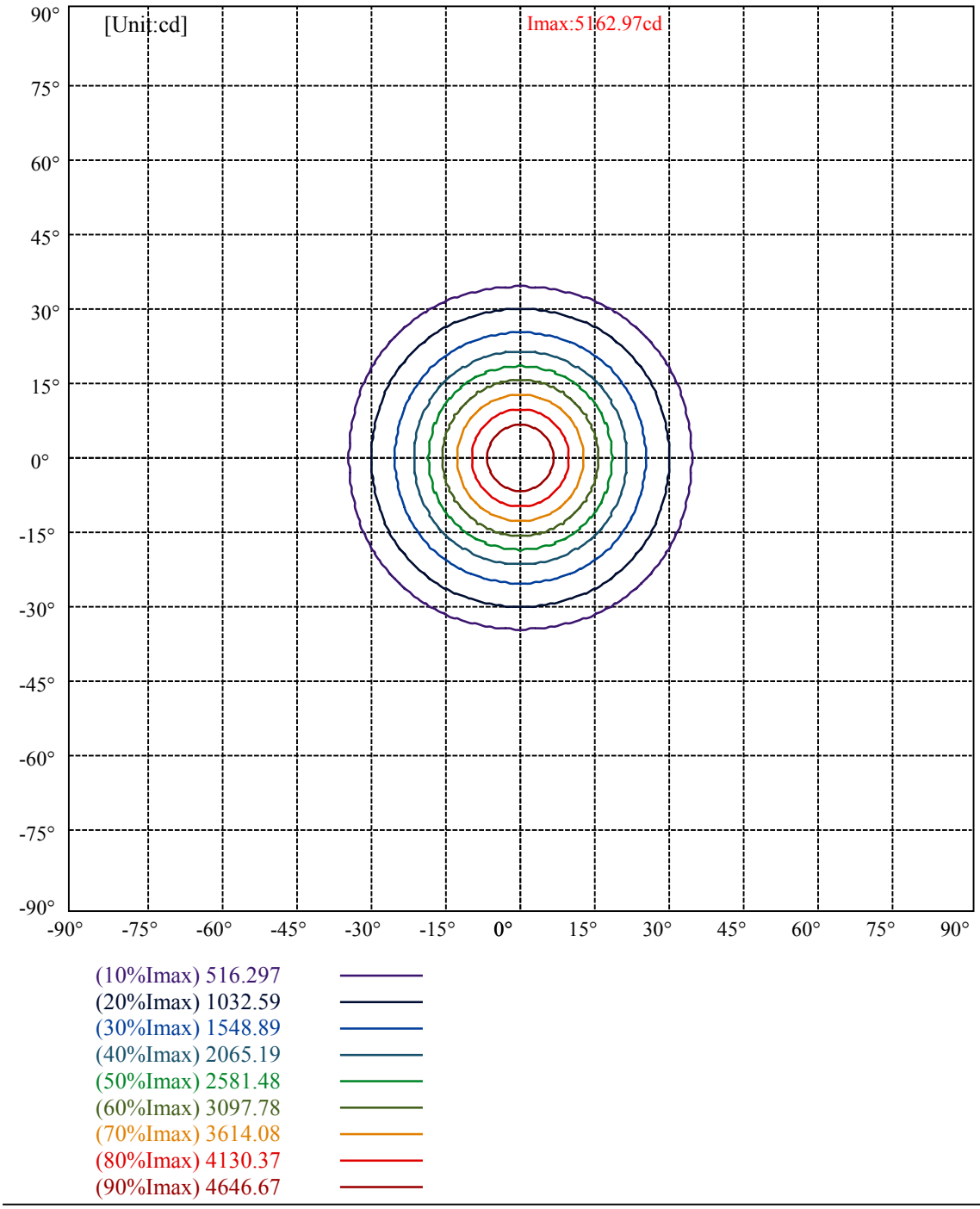
Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Lux distance Curve



ISO-Intensity(V-H)



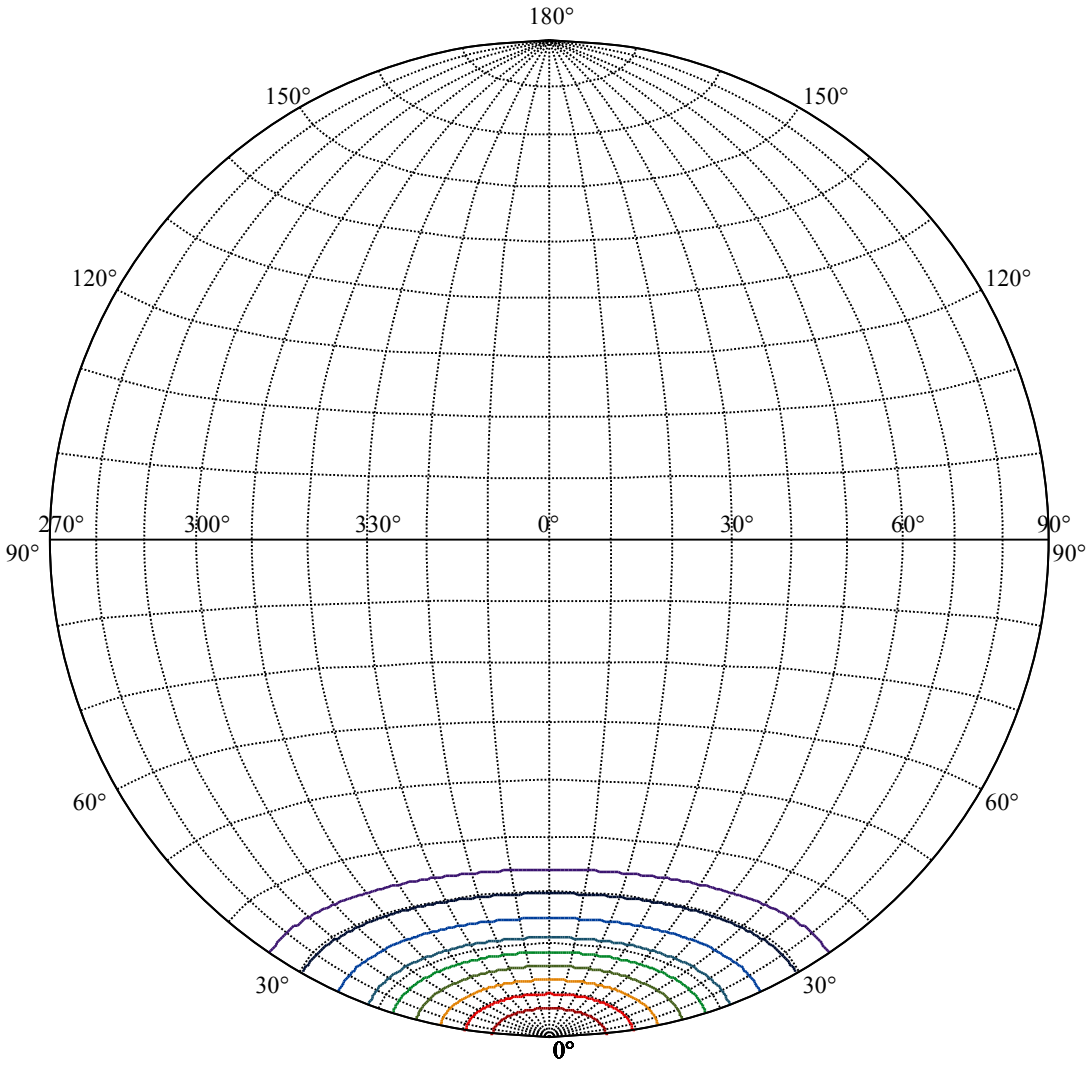
(10%Imax) 516.297
(20%Imax) 1032.59
(30%Imax) 1548.89
(40%Imax) 2065.19
(50%Imax) 2581.48
(60%Imax) 3097.78
(70%Imax) 3614.08
(80%Imax) 4130.37
(90%Imax) 4646.67

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5162.97

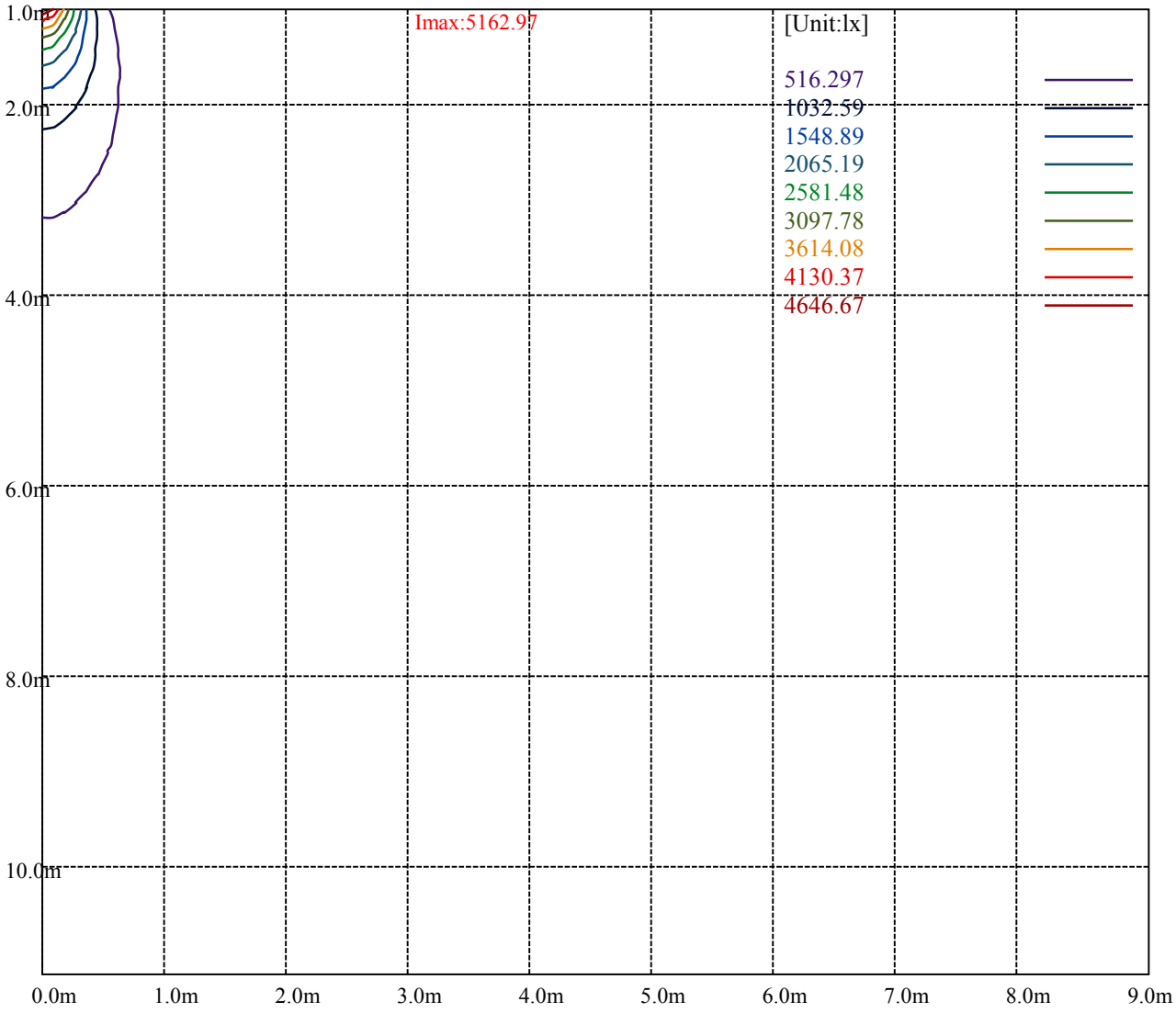
(10%Imax) 516.297
(20%Imax) 1032.59
(30%Imax) 1548.89
(40%Imax) 2065.19
(50%Imax) 2581.48
(60%Imax) 3097.78
(70%Imax) 3614.08
(80%Imax) 4130.37
(90%Imax) 4646.67

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Space ISO Lux diagram



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

Nata 2-2759-L

Luminance Limitting Curve(no luminous side)

Luminance Table

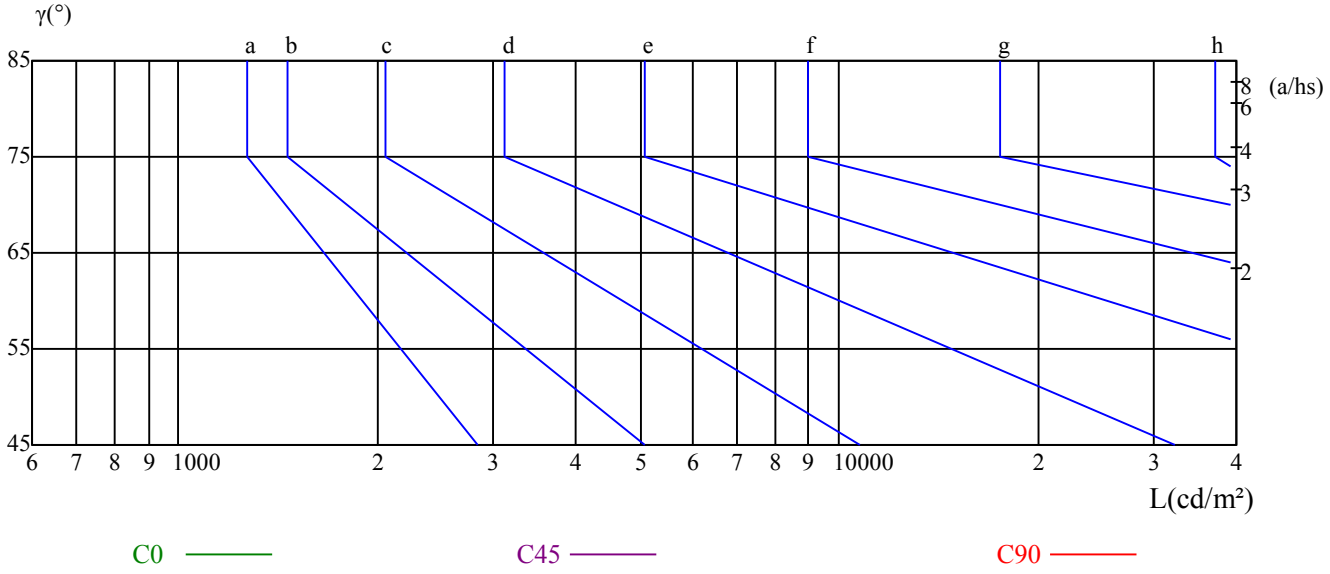
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

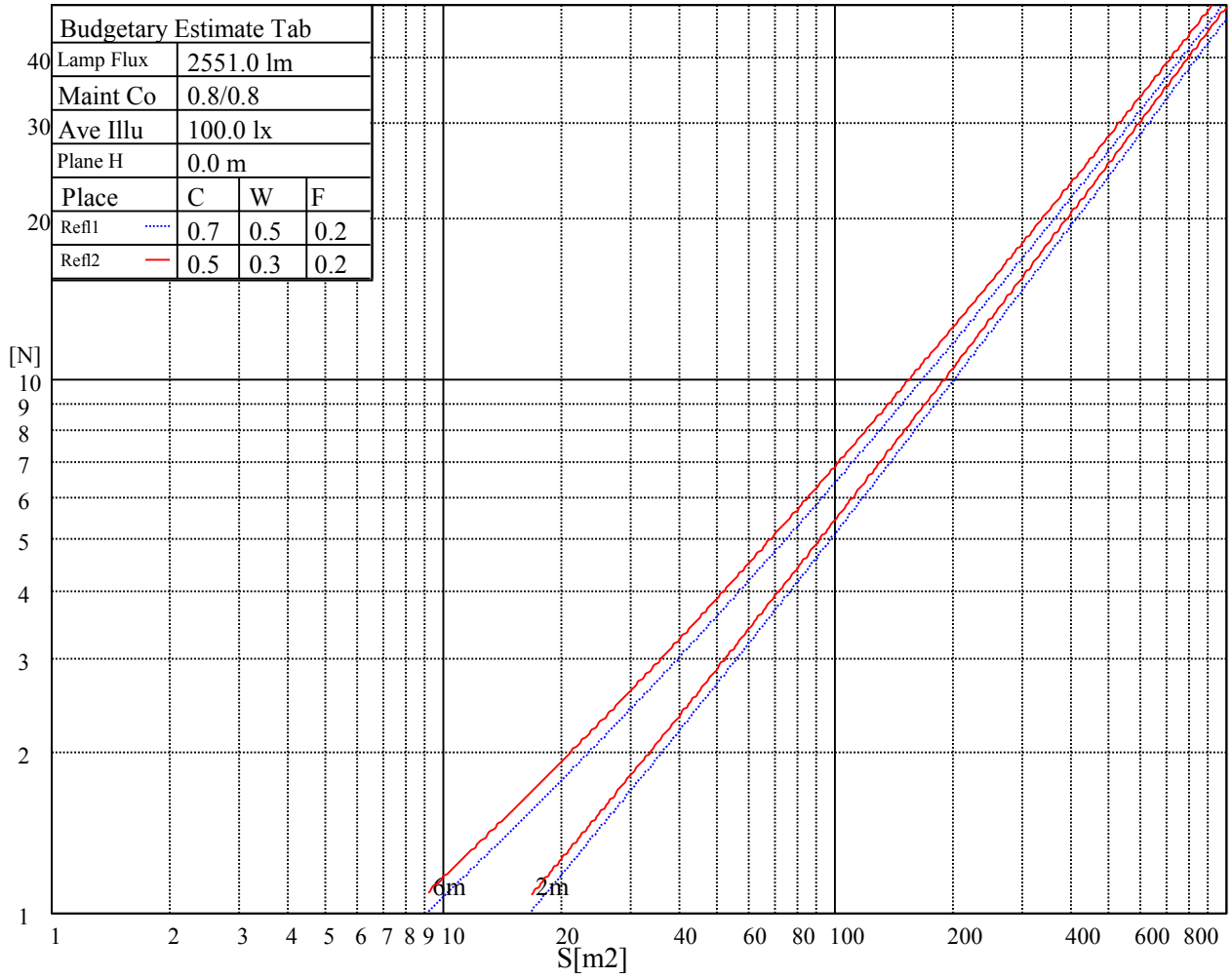
Date: 2024/8/31
Humidity(%): 60.0%

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
Temperature(°C): 25.0

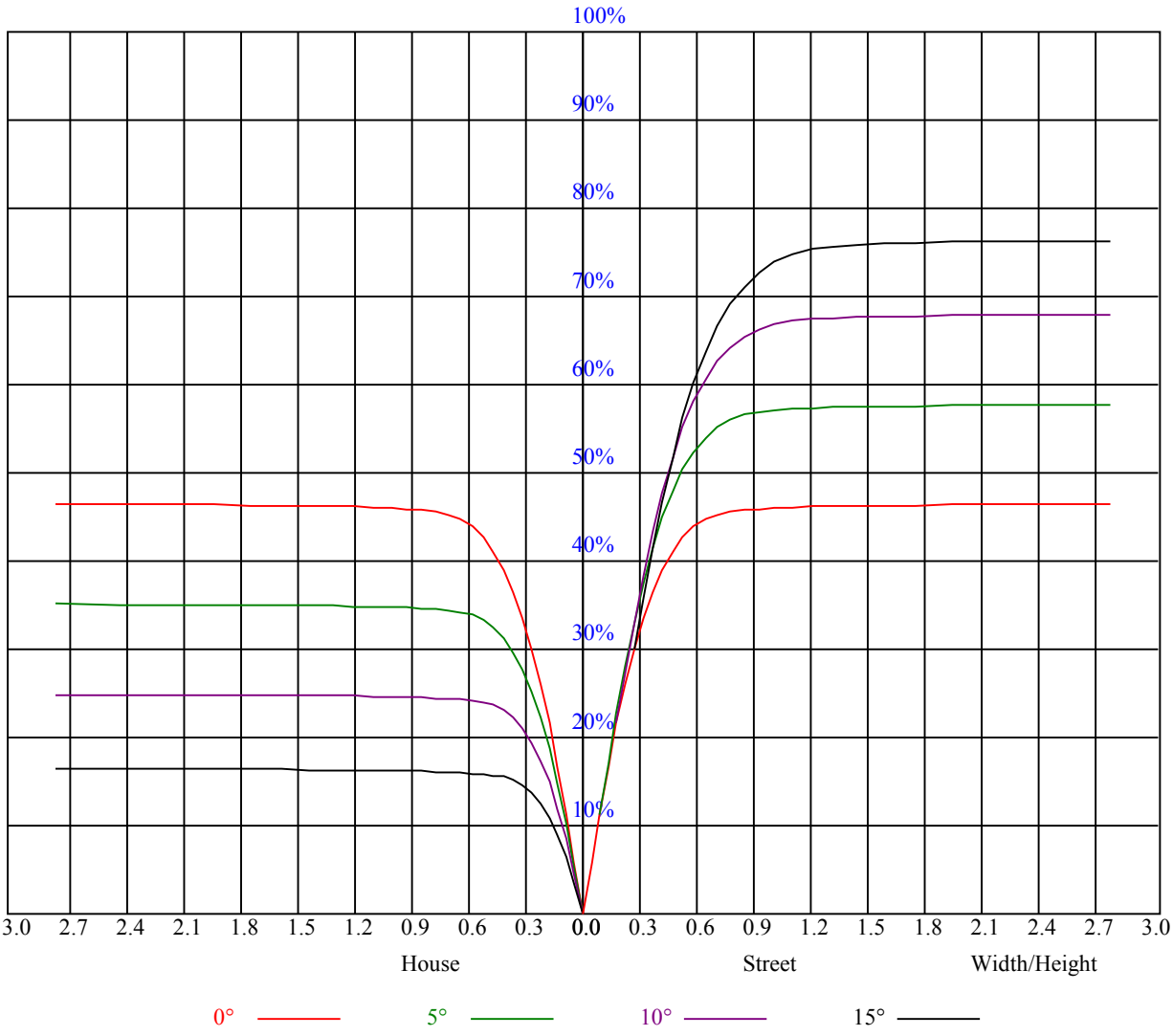
Date: 2024/8/31
Humidity(%): 60.0%

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	1.08	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	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.88
2	0.98	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.89	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.80	0.79
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.72	0.71
6	0.79	0.74	0.70	0.78	0.73	0.70	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.64
8	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.61
9	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.64	0.60	0.57	0.63	0.60	0.57	0.56

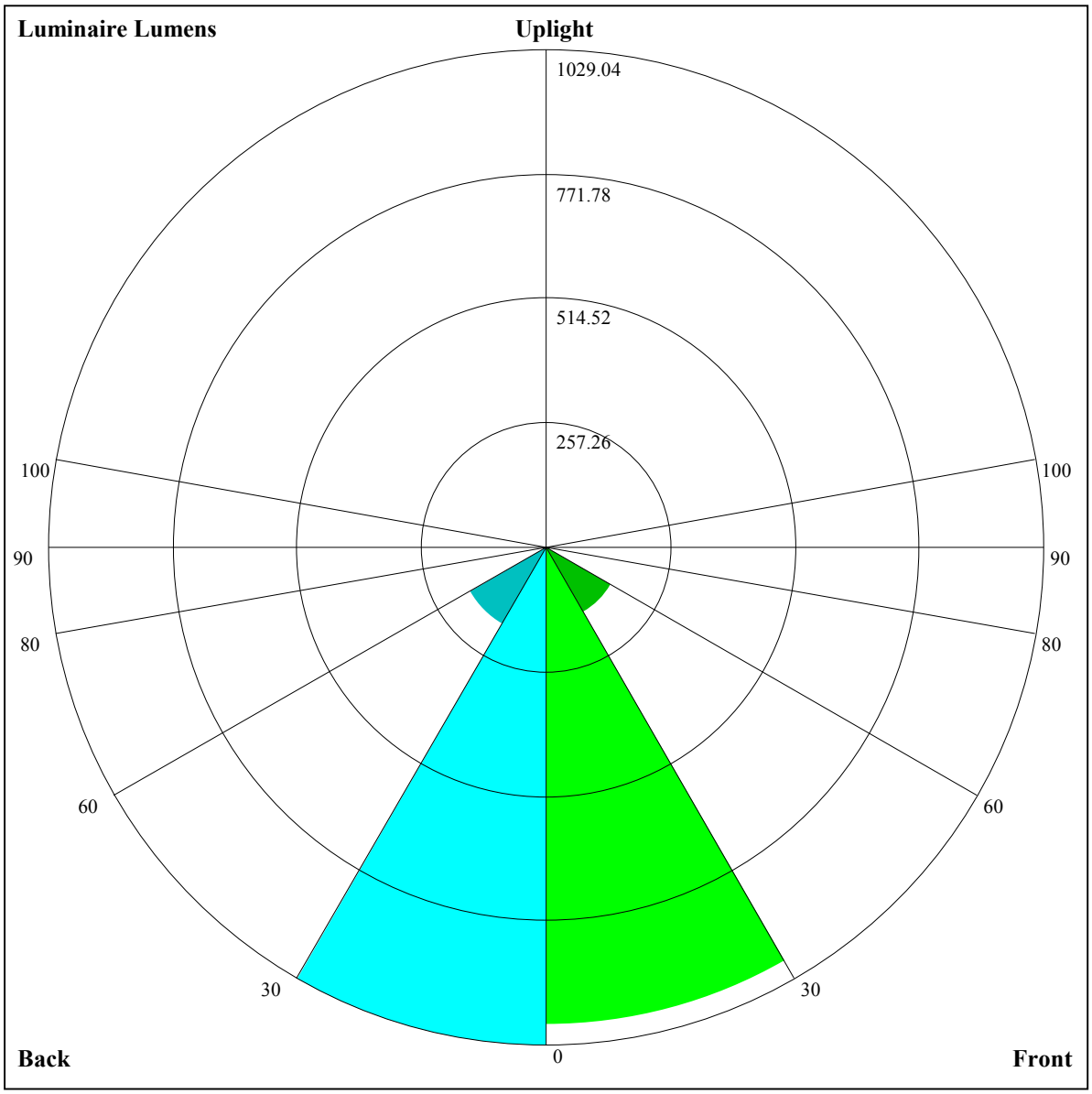
Coefficient Utilization Curve



Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/8/31
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25



Luminaire Lumens:
FL=985.94,FM=154.5,FH=7.94,FVH=1.12
BL=1029.04,BM=184.16,BH=9.31,BVH=1.35
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	5147.34	5131.78	5108.92	5037.06	4935.09	4810.84	4653.73	4479.90	4300.45
45.0	5142.93	5179.67	5225.34	5220.93	5169.63	5089.99	5037.59	4866.55	4723.90
90.0	5209.78	5240.43	5246.53	5195.86	5123.42	5021.45	4893.83	4747.34	4571.26
135.0	5151.81	5165.21	5157.96	5138.98	5074.38	5002.48	4899.98	4776.83	4643.11
180.0	5147.34	5130.10	5110.60	5076.07	5040.38	4886.05	4754.54	4660.98	4456.46
225.0	5142.93	5094.41	5009.21	4883.27	4735.04	4568.47	4401.32	4224.71	4053.09
270.0	5209.78	5157.38	5106.13	5041.48	4936.20	4788.55	4619.19	4462.61	4339.45
315.0	5151.81	5122.27	5052.10	4950.13	4872.70	4698.30	4553.44	4453.15	4222.45
360.0	5147.34	5131.78	5108.92	5037.06	4935.09	4810.84	4653.73	4479.90	4300.45

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4121.06	3931.10	3736.62	3528.26	3402.90	3112.59	2923.74	2813.99	2549.33
45.0	4610.26	4333.88	4197.96	3992.91	3797.90	3573.36	3367.21	3137.14	2921.48
90.0	4388.50	4196.85	4007.42	3886.52	3585.08	3449.68	3234.07	3015.67	2809.52
135.0	4501.03	4338.93	4161.74	3973.41	3871.44	3606.26	3499.30	3321.53	3119.85
180.0	4359.53	4192.96	4014.67	3840.27	3680.37	3538.30	3374.46	3204.53	3034.59
225.0	3880.37	3698.72	3567.78	3366.68	3187.81	3061.92	2895.88	2727.05	2579.98
270.0	4118.27	3952.81	3811.83	3647.47	3471.96	3300.93	3126.00	2961.63	2800.58
315.0	4109.39	3933.30	3760.01	3578.93	3393.96	3221.82	3052.41	2862.45	2671.91
360.0	4121.06	3931.10	3736.62	3528.26	3402.90	3112.59	2923.74	2813.99	2549.33

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2432.86	2248.99	2075.17	1903.03	1759.27	1626.65	1494.61	1375.35	1269.49
45.0	2701.40	2484.10	2265.18	2079.64	1891.88	1716.90	1569.25	1438.32	1324.68
90.0	2587.18	2367.68	2162.11	1960.37	1784.34	1636.11	1511.33	1383.71	1275.06
135.0	2917.06	2715.33	2515.33	2331.46	2160.95	1994.96	1840.58	1699.66	1566.47
180.0	2864.13	2693.04	2509.18	2342.03	2202.21	2064.60	1924.73	1812.72	1661.76
225.0	2433.43	2280.74	2108.60	1970.41	1851.72	1731.41	1614.93	1498.50	1408.78
270.0	2636.22	2473.54	2308.07	2154.27	2014.98	1892.99	1776.51	1660.08	1552.54
315.0	2489.15	2316.43	2162.63	2018.35	1880.74	1737.51	1614.93	1496.82	1383.71
360.0	2432.86	2248.99	2075.17	1903.03	1759.27	1626.65	1494.61	1375.35	1269.49

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1041.42	1041.42	914.64	796.48	680.63	562.47	493.46	387.91	251.72
45.0	1255.03	1119.63	1020.45	952.49	806.52	743.55	640.47	538.50	440.47
90.0	1080.74	1080.74	997.37	873.17	781.87	676.37	570.36	462.87	361.37
135.0	1436.64	1324.68	1220.50	1114.64	994.85	870.59	742.97	644.36	506.18
180.0	1554.22	1467.86	1334.72	1253.93	1132.46	997.06	864.44	725.73	592.54
225.0	1321.32	1049.46	1049.46	971.83	886.05	755.01	623.55	501.60	394.32
270.0	1440.58	1331.93	1221.03	1093.46	947.49	861.66	717.90	543.55	473.33
315.0	1108.12	1108.12	1054.93	912.43	779.08	650.57	534.51	422.92	321.89
360.0	1041.42	1041.42	914.64	796.48	680.63	562.47	493.46	387.91	251.72

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	205.36	136.66	96.40	79.47	68.07	58.50	52.35	46.62	41.73
45.0	341.81	301.18	207.67	112.06	87.83	74.90	64.55	56.87	50.57
90.0	266.54	183.76	123.21	91.30	77.06	66.44	57.66	51.09	45.41
135.0	420.39	320.68	302.29	205.52	100.24	76.74	66.75	58.19	51.09
180.0	471.64	364.68	303.39	303.39	128.78	93.98	82.79	67.07	58.55
225.0	302.71	219.50	157.27	112.33	86.83	74.01	63.92	56.03	49.67
270.0	369.15	311.75	311.75	136.61	98.45	79.74	69.28	60.50	53.88
315.0	235.69	164.52	113.48	86.31	73.69	63.65	55.77	51.56	44.63
360.0	205.36	136.66	96.40	79.47	68.07	58.50	52.35	46.62	41.73

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	37.21	33.48	30.49	27.91	25.39	23.44	21.66	20.29	19.45
45.0	46.89	39.47	36.74	32.54	28.02	26.44	24.02	21.97	20.39
90.0	40.47	36.43	32.96	29.80	26.96	25.34	22.50	21.55	20.08
135.0	45.62	40.58	36.27	32.38	28.86	25.91	24.18	21.81	18.87
180.0	54.24	48.20	42.84	37.95	33.69	29.75	26.54	23.81	21.39
225.0	44.26	39.47	35.32	31.22	27.86	25.60	22.81	21.34	19.82
270.0	48.15	43.05	39.58	34.80	31.85	28.70	26.12	23.71	21.81
315.0	41.89	37.48	32.01	29.96	27.28	25.02	22.92	21.24	19.76
360.0	37.21	33.48	30.49	27.91	25.39	23.44	21.66	20.29	19.45

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.77	16.56	15.87	14.56	14.09	13.30	12.51	11.72	11.04
45.0	18.98	17.77	16.71	15.66	14.61	13.61	12.88	12.14	11.56
90.0	18.76	17.66	16.45	15.24	14.03	13.14	12.30	11.56	11.04
135.0	17.82	16.29	15.14	14.19	13.61	12.98	12.35	11.93	11.25
180.0	19.55	17.92	16.56	15.45	14.82	14.14	13.51	13.04	12.72
225.0	18.55	17.35	16.29	15.19	14.35	13.98	13.40	12.98	12.83
270.0	20.55	19.19	17.92	16.82	15.87	15.03	14.19	13.61	13.19
315.0	18.50	17.29	16.24	15.30	14.45	13.56	12.88	12.35	11.77
360.0	17.77	16.56	15.87	14.56	14.09	13.30	12.51	11.72	11.04

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.35	9.62	8.88	8.25	7.73	7.25	6.73	6.25	5.94
45.0	10.72	10.25	9.57	9.20	8.30	7.88	7.36	6.78	6.36
90.0	10.41	9.62	8.83	8.09	7.52	6.94	6.47	6.04	5.89
135.0	10.67	10.20	9.83	9.46	8.94	8.41	7.83	7.36	6.89
180.0	12.40	12.04	11.62	11.46	10.88	10.04	9.62	9.15	8.94
225.0	12.51	12.04	11.83	11.67	12.09	12.30	13.40	13.56	14.14
270.0	12.62	12.04	11.35	10.72	10.35	10.25	10.88	11.46	11.62
315.0	11.20	10.62	9.78	9.15	8.67	8.09	7.67	7.25	6.94
360.0	10.35	9.62	8.88	8.25	7.73	7.25	6.73	6.25	5.94

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.62	5.26	4.89	4.57	4.21	3.94	3.63	3.21	2.89
45.0	5.99	5.57	5.15	4.84	4.52	4.15	3.78	3.36	3.05
90.0	5.41	5.15	4.84	4.52	4.15	3.84	3.47	3.15	2.84
135.0	6.57	6.36	5.94	5.68	5.31	4.99	4.63	4.26	3.99
180.0	8.99	9.15	8.99	8.25	7.25	6.36	5.78	5.26	4.73
225.0	13.98	13.67	12.93	10.14	7.99	6.73	5.52	4.94	4.52
270.0	12.09	12.14	12.04	10.67	8.94	7.31	6.20	5.20	4.73
315.0	6.68	6.36	5.99	5.57	5.20	4.78	4.36	4.05	3.68
360.0	5.62	5.26	4.89	4.57	4.21	3.94	3.63	3.21	2.89

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.63	2.31	2.10	1.89	1.73	1.47	1.26	1.00	0.95
45.0	2.79	2.47	2.16	1.84	1.68	1.37	1.21	1.00	0.89
90.0	2.63	2.21	2.05	1.79	1.58	1.42	1.21	1.05	0.95
135.0	3.63	3.21	2.89	2.47	2.21	1.94	1.79	1.47	1.31
180.0	4.31	3.94	3.47	3.10	2.73	2.37	2.10	1.84	1.68
225.0	3.99	3.47	3.15	2.79	2.42	2.21	1.94	1.73	1.47
270.0	4.31	3.73	3.36	3.00	2.68	2.31	2.05	1.84	1.68
315.0	3.31	3.00	2.73	2.37	2.10	1.94	1.73	1.47	1.31
360.0	2.63	2.31	2.10	1.89	1.73	1.47	1.26	1.00	0.95

Intensity data(cd)

C/γ(°)	90.0
0.0	1.00
45.0	0.95
90.0	0.89
135.0	1.05
180.0	1.47
225.0	1.42
270.0	1.47
315.0	1.05
360.0	1.00