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

NT

Client:
LumCAT: 2-2687-L
Luminaire: 92.70.412.00
Report No: 2024315-B002
Ballast type: AC

Test No: 2024315-C002	Voltage(V): 34.610
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.450
Lamp flux(lm): 2626.0	Power (W): 15.574
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2188.91, Efficiency(%): 83.36% , Luminous Efficacy(lm/W): 140.55
Central intensity(cd): 8706.452, Maximum intensity(cd): 8706.452
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.0
[C90/270]Total=22.0
Field angle(10%Imax): [C0/180]Total=54.4
[C90/270]Total=54.4
Maximum s/h(1/2): C0_180=0.37 C90_270=0.37
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.36%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.950%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8706.451	0.000	0	0.00%	0.00%
1.0	8643.612	8.302	8.302	0.32%	0.38%
2.0	8449.318	24.533	32.835	0.93%	1.50%
3.0	8158.241	39.720	72.555	1.51%	3.31%
4.0	7746.828	53.239	125.794	2.03%	5.75%
5.0	7306.227	64.757	190.552	2.47%	8.71%
6.0	6800.885	74.137	264.688	2.82%	12.09%
7.0	6266.209	81.107	345.796	3.09%	15.80%
8.0	5772.791	86.161	431.956	3.28%	19.73%
9.0	5277.910	89.560	521.516	3.41%	23.83%
10.0	4790.857	91.119	612.635	3.47%	27.99%
11.0	4345.720	91.293	703.928	3.48%	32.16%
12.0	3933.648	90.505	794.434	3.45%	36.29%
13.0	3549.229	88.803	883.236	3.38%	40.35%
14.0	3200.581	86.397	969.633	3.29%	44.30%
15.0	2892.826	83.653	1053.286	3.19%	48.12%
16.0	2628.304	80.900	1134.186	3.08%	51.82%
17.0	2374.243	77.903	1212.089	2.97%	55.37%
18.0	2171.609	74.951	1287.041	2.85%	58.80%
19.0	1986.897	72.350	1359.39	2.76%	62.10%
20.0	1812.720	69.544	1428.934	2.65%	65.28%
21.0	1649.808	66.488	1495.421	2.53%	68.32%
22.0	1464.928	62.592	1558.013	2.38%	71.18%
23.0	1343.421	58.927	1616.94	2.24%	73.87%
24.0	1220.077	56.047	1672.987	2.13%	76.43%
25.0	1134.115	53.529	1726.516	2.04%	78.88%
26.0	1022.651	50.911	1777.427	1.94%	81.20%
27.0	898.394	46.999	1824.426	1.79%	83.35%
28.0	783.272	42.576	1867.002	1.62%	85.29%
29.0	674.640	38.143	1905.145	1.45%	87.04%
30.0	567.559	33.539	1938.684	1.28%	88.57%
31.0	466.688	28.782	1967.466	1.10%	89.88%
32.0	376.431	24.154	1991.62	0.92%	90.99%
33.0	305.144	20.079	2011.7	0.76%	91.90%
34.0	251.771	16.854	2028.554	0.64%	92.67%
35.0	191.500	13.766	2042.32	0.52%	93.30%
36.0	150.015	10.874	2053.194	0.41%	93.80%
37.0	117.703	8.731	2061.925	0.33%	94.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	103.804	7.394	2069.319	0.28%	94.54%
39.0	92.795	6.710	2076.03	0.26%	94.84%
40.0	83.109	6.135	2082.164	0.23%	95.12%
41.0	73.819	5.588	2087.753	0.21%	95.38%
42.0	66.803	5.109	2092.862	0.19%	95.61%
43.0	59.993	4.697	2097.559	0.18%	95.83%
44.0	54.141	4.308	2101.866	0.16%	96.02%
45.0	48.947	3.962	2105.828	0.15%	96.20%
46.0	44.543	3.656	2109.484	0.14%	96.37%
47.0	40.812	3.395	2112.879	0.13%	96.53%
48.0	37.264	3.156	2116.035	0.12%	96.67%
49.0	34.419	2.944	2118.979	0.11%	96.81%
50.0	31.844	2.763	2121.742	0.11%	96.93%
51.0	29.868	2.611	2124.353	0.10%	97.05%
52.0	28.113	2.488	2126.841	0.09%	97.16%
53.0	26.628	2.381	2129.222	0.09%	97.27%
54.0	25.296	2.289	2131.51	0.09%	97.38%
55.0	24.206	2.210	2133.72	0.08%	97.48%
56.0	23.255	2.145	2135.865	0.08%	97.58%
57.0	22.480	2.091	2137.956	0.08%	97.67%
58.0	21.858	2.050	2140.006	0.08%	97.77%
59.0	21.419	2.023	2142.029	0.08%	97.86%
60.0	21.119	2.010	2144.039	0.08%	97.95%
61.0	20.871	2.004	2146.043	0.08%	98.04%
62.0	20.549	1.996	2148.039	0.08%	98.13%
63.0	20.088	1.976	2150.015	0.08%	98.22%
64.0	19.393	1.937	2151.952	0.07%	98.31%
65.0	18.537	1.877	2153.83	0.07%	98.40%
66.0	17.688	1.807	2155.637	0.07%	98.48%
67.0	16.928	1.741	2157.378	0.07%	98.56%
68.0	16.394	1.688	2159.066	0.06%	98.64%
69.0	16.108	1.658	2160.724	0.06%	98.71%
70.0	15.955	1.647	2162.37	0.06%	98.79%
71.0	15.750	1.639	2164.009	0.06%	98.86%
72.0	15.728	1.637	2165.646	0.06%	98.94%
73.0	15.757	1.646	2167.292	0.06%	99.01%
74.0	15.384	1.637	2168.929	0.06%	99.09%
75.0	14.879	1.599	2170.528	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.484	1.559	2172.087	0.06%	99.23%
77.0	13.980	1.518	2173.605	0.06%	99.30%
78.0	13.328	1.462	2175.067	0.06%	99.37%
79.0	12.809	1.404	2176.471	0.05%	99.43%
80.0	11.997	1.337	2177.808	0.05%	99.49%
81.0	11.339	1.262	2179.07	0.05%	99.55%
82.0	10.827	1.202	2180.272	0.05%	99.61%
83.0	10.527	1.161	2181.433	0.04%	99.66%
84.0	10.263	1.133	2182.566	0.04%	99.71%
85.0	10.037	1.108	2183.674	0.04%	99.76%
86.0	9.781	1.083	2184.757	0.04%	99.81%
87.0	9.583	1.060	2185.817	0.04%	99.86%
88.0	9.407	1.040	2186.857	0.04%	99.91%
89.0	9.364	1.029	2187.886	0.04%	99.95%
90.0	9.283	1.022	2188.908	0.04%	100.00%

Zonal flux distribution table

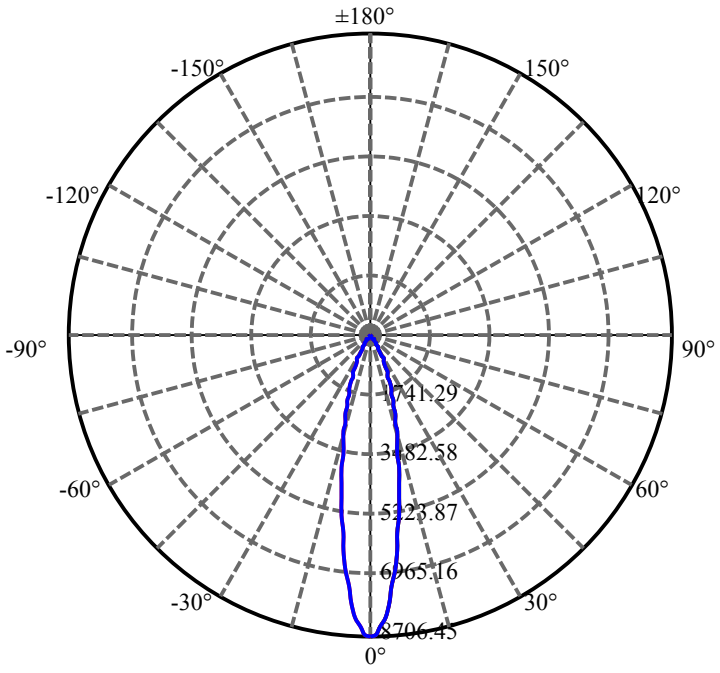
ZONAL LUMEN SUMMARY

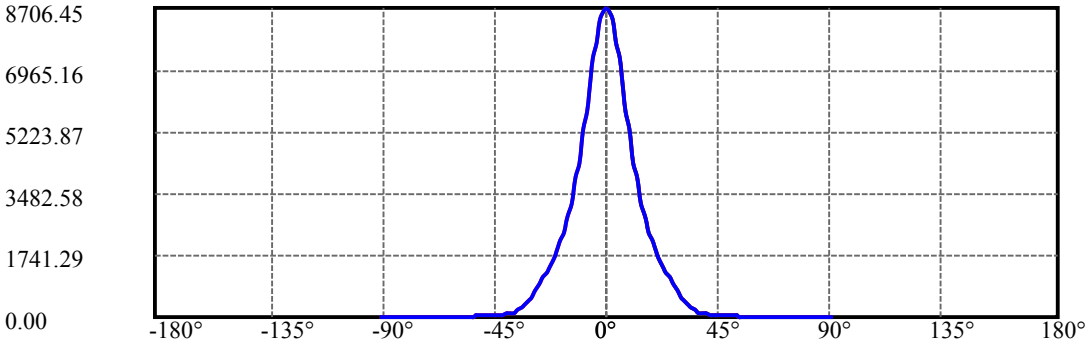
Zone	Lumens	%Lamp	%Fixt
0-30	1938.68	73.83%	88.57%
0-40	2082.16	79.29%	95.12%
0-60	2144.04	81.65%	97.95%
0-90	2187.89	83.32%	99.95%
0-120	2187.89	83.32%	99.95%
0-180	2188.91	83.36%	100.00%
60-90	43.85	1.67%	2.00%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.48	1751.13	66.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	612.63
10-20	816.30
20-30	509.75
30-40	143.48
40-50	39.58
50-60	22.30
60-70	18.33
70-80	15.44
80-90	10.08
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):

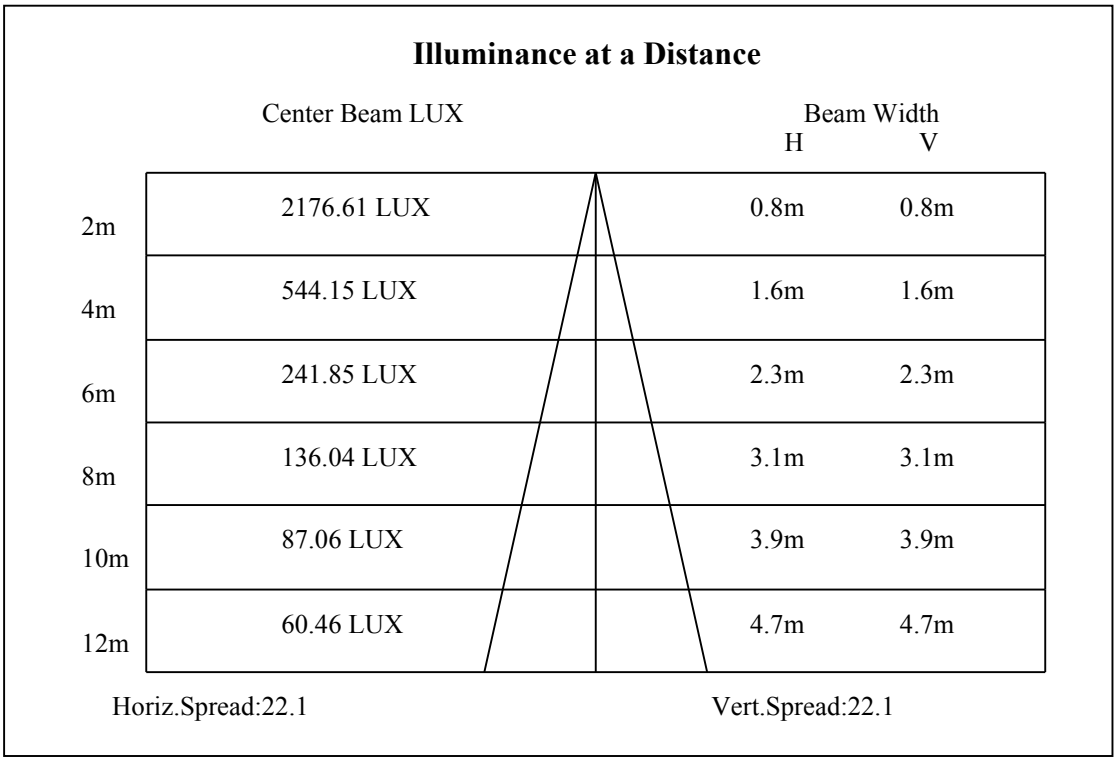
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:27.2 Right:27.2
:C90/270Left:27.2 Right:27.2

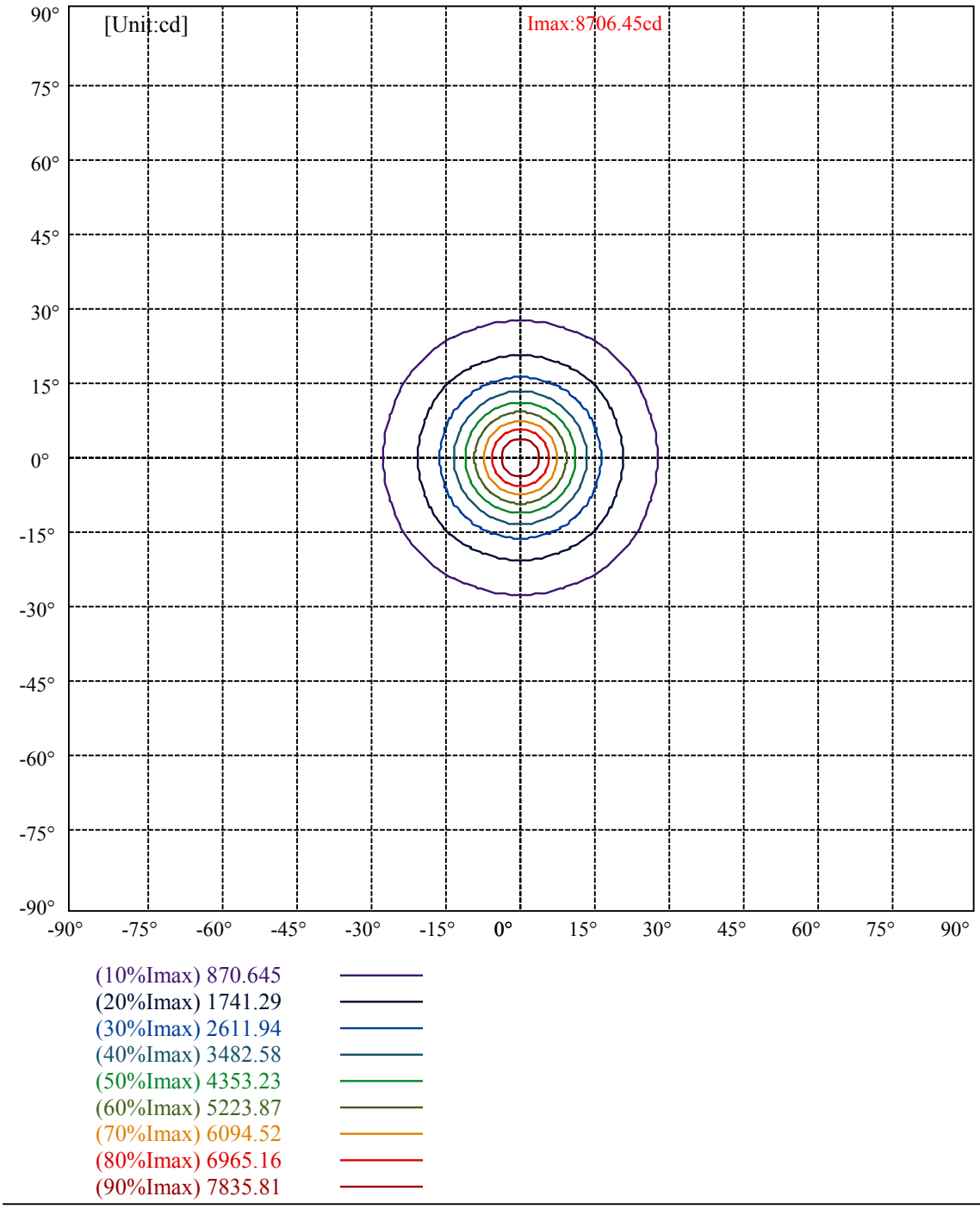
Beam Angle(50%Imax):C0/180Left:11.0 Right:11.0
:C90/270Left:11.0 Right:11.0

Lux distance Curve



Equipment: GMS1980 Date: 2024/3/15 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

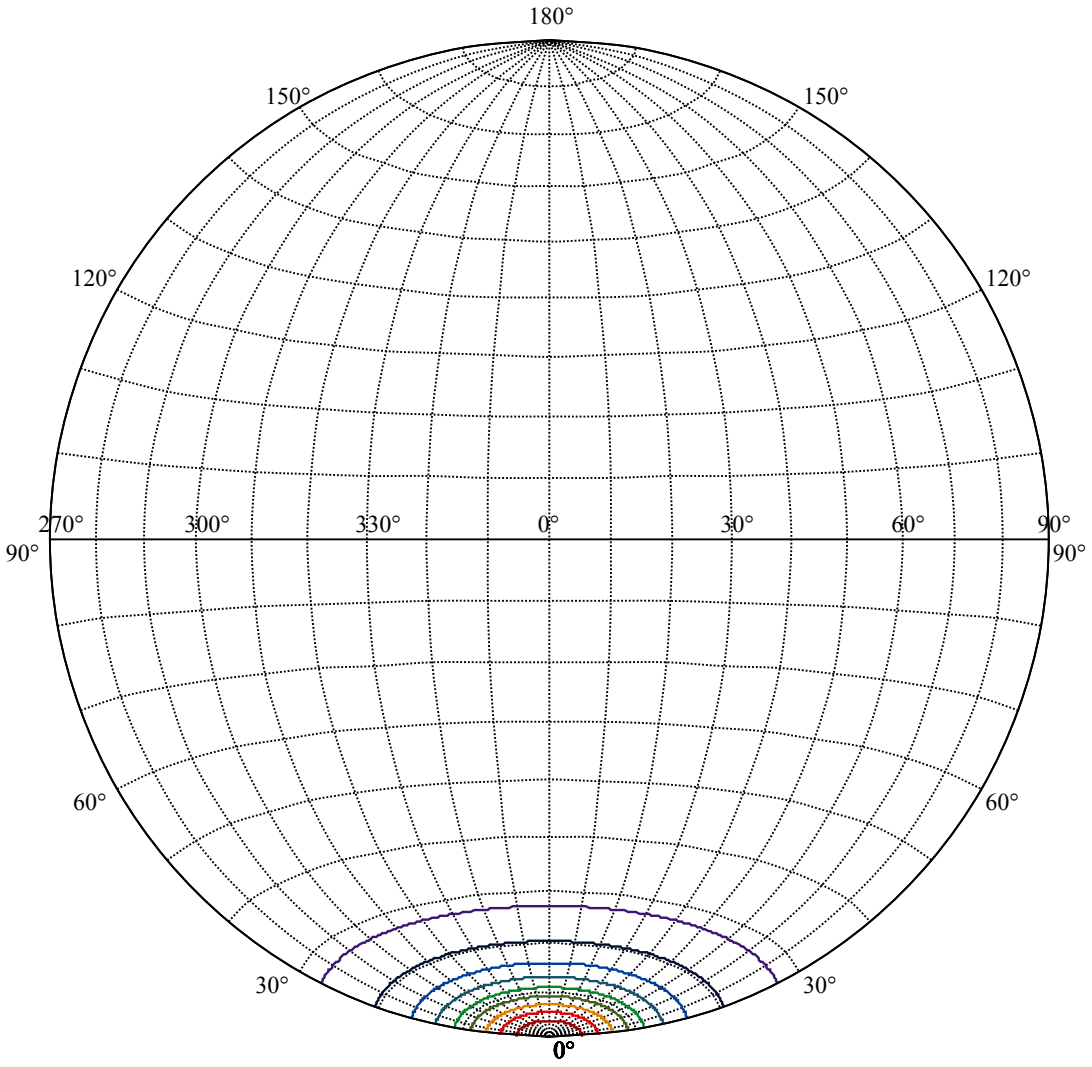


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/15
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



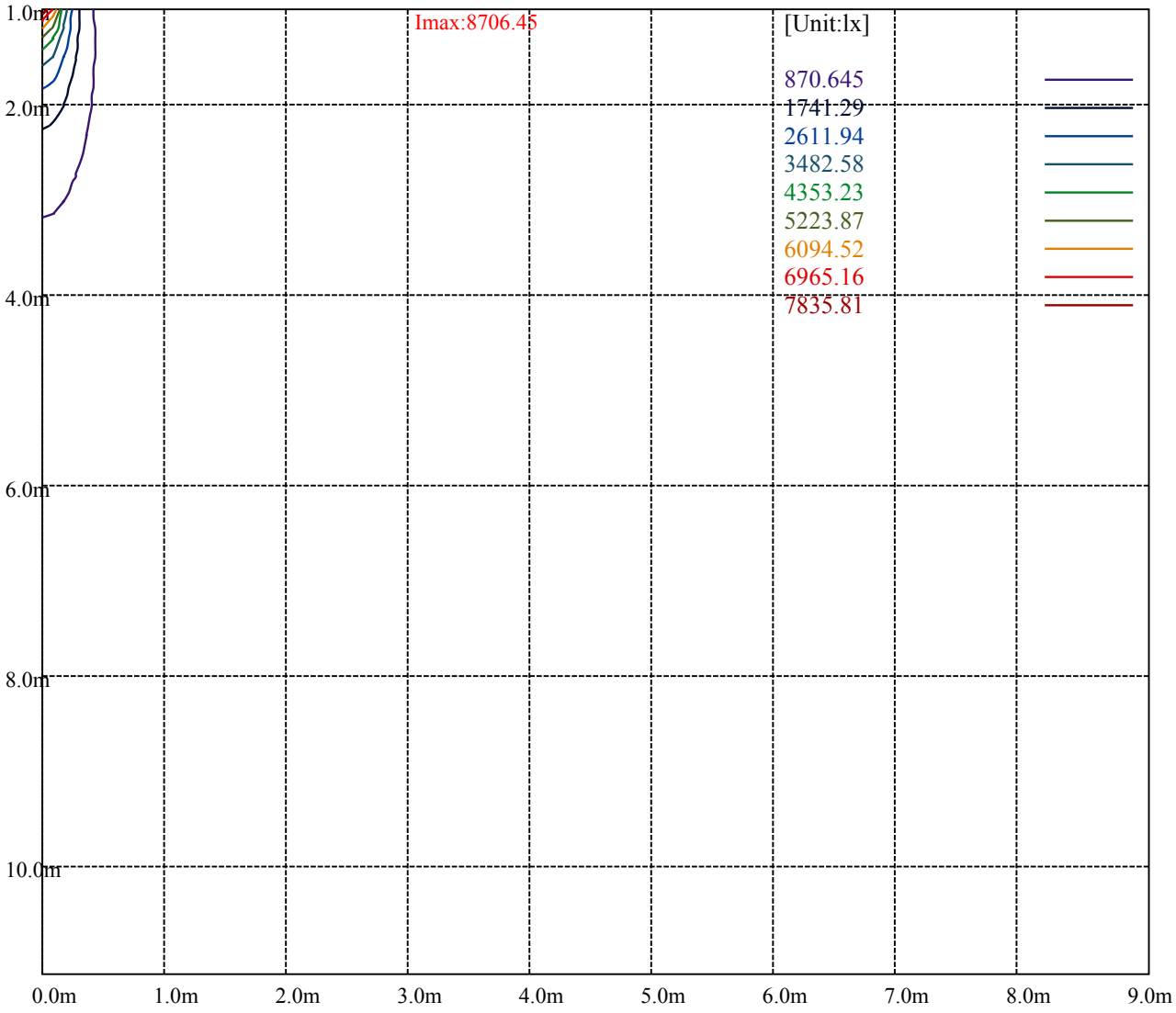
House [Unit:cd] Road

Imax:8706.45

(10%Imax) 870.645
(20%Imax) 1741.29
(30%Imax) 2611.94
(40%Imax) 3482.58
(50%Imax) 4353.23
(60%Imax) 5223.87
(70%Imax) 6094.52
(80%Imax) 6965.16
(90%Imax) 7835.81

Equipment: GMS1980	Date: 2024/3/15	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/15
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

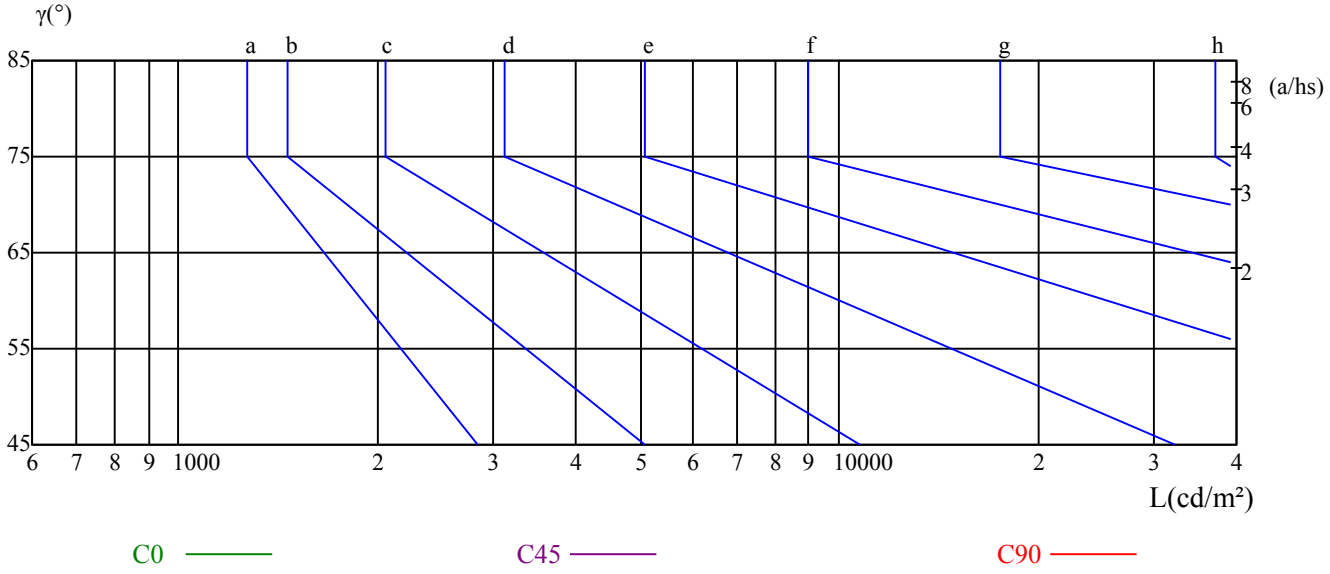
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

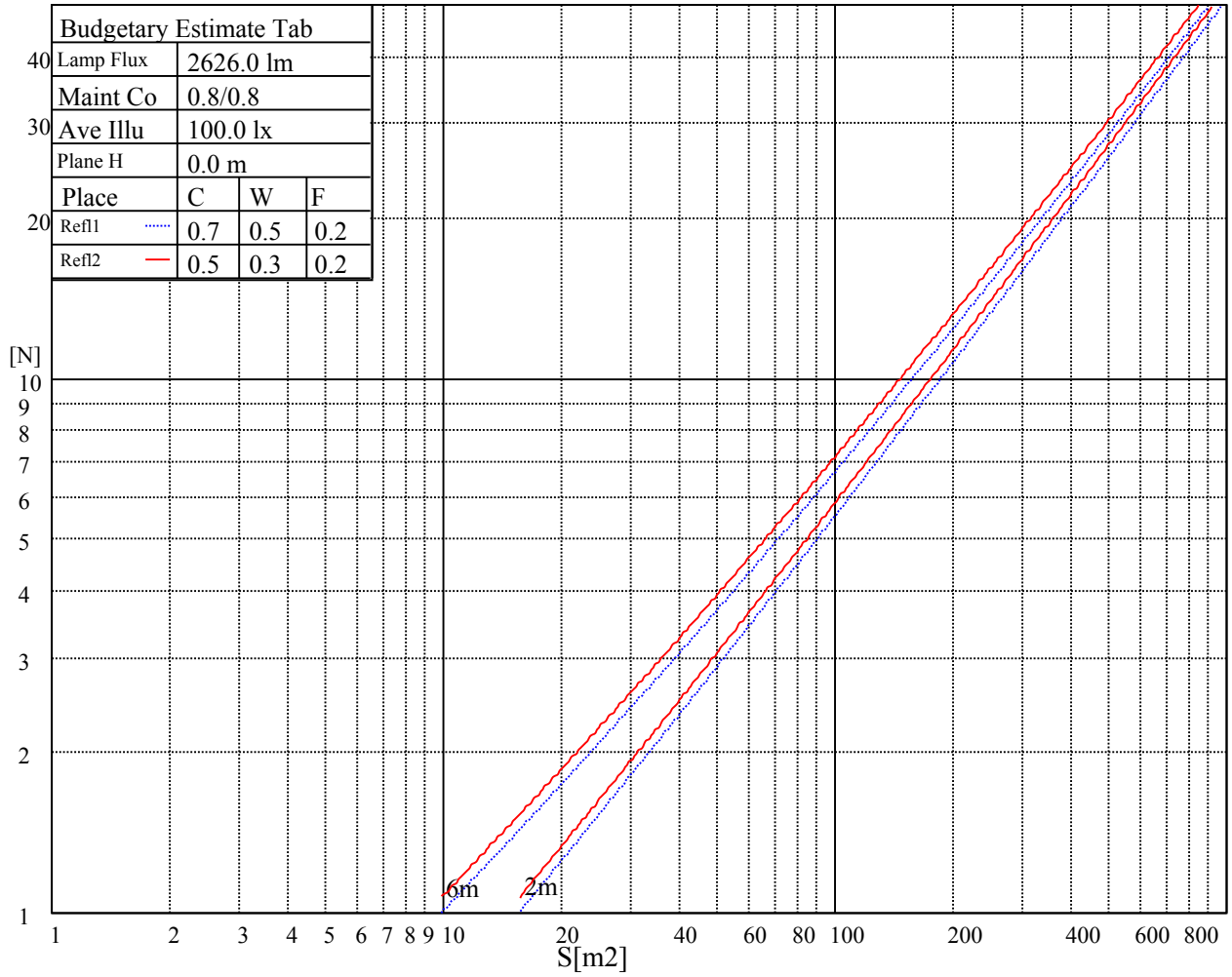
Luminance Limitting Curve



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

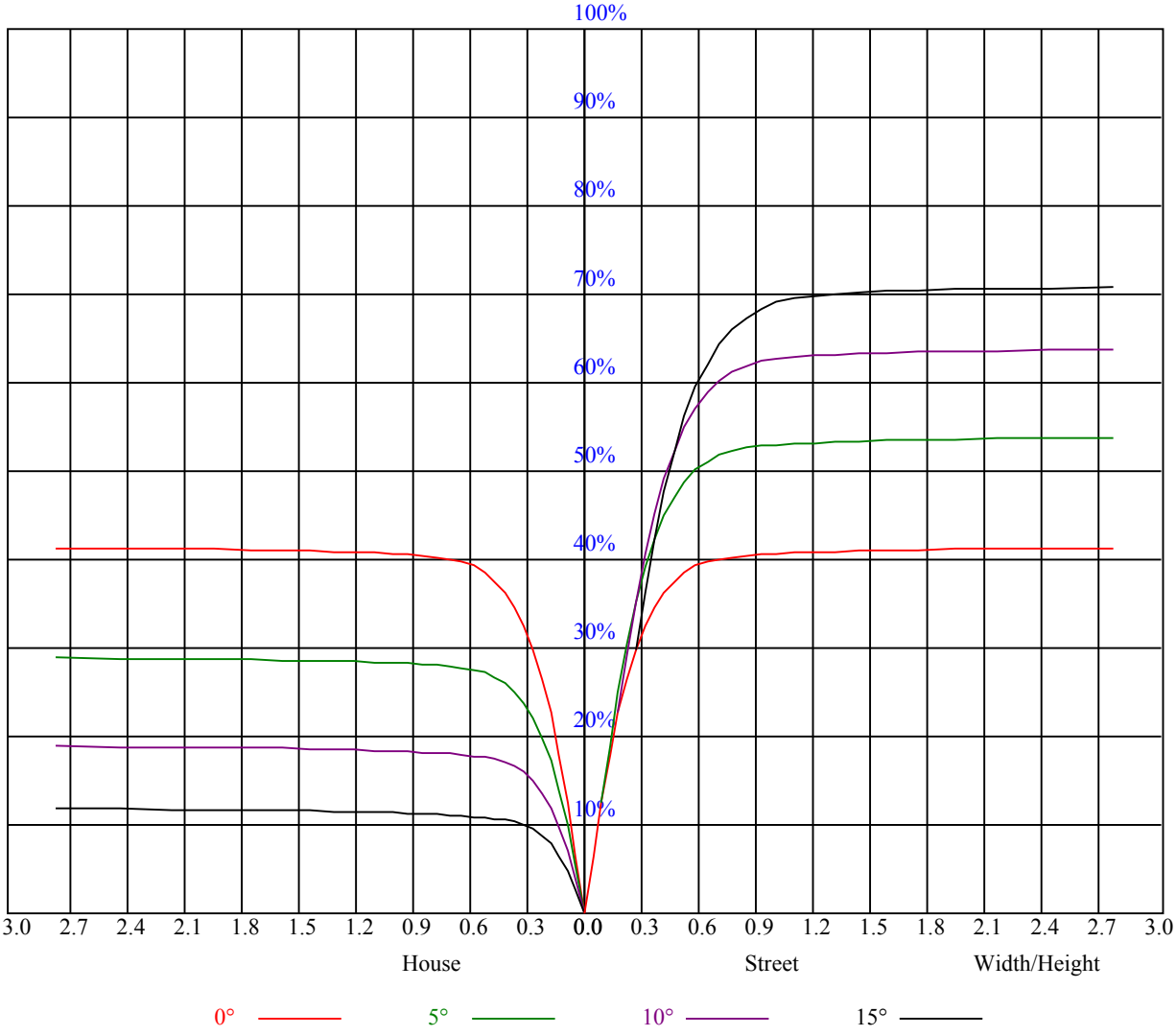


Equipment: GMS1980 Date: 2024/3/15 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

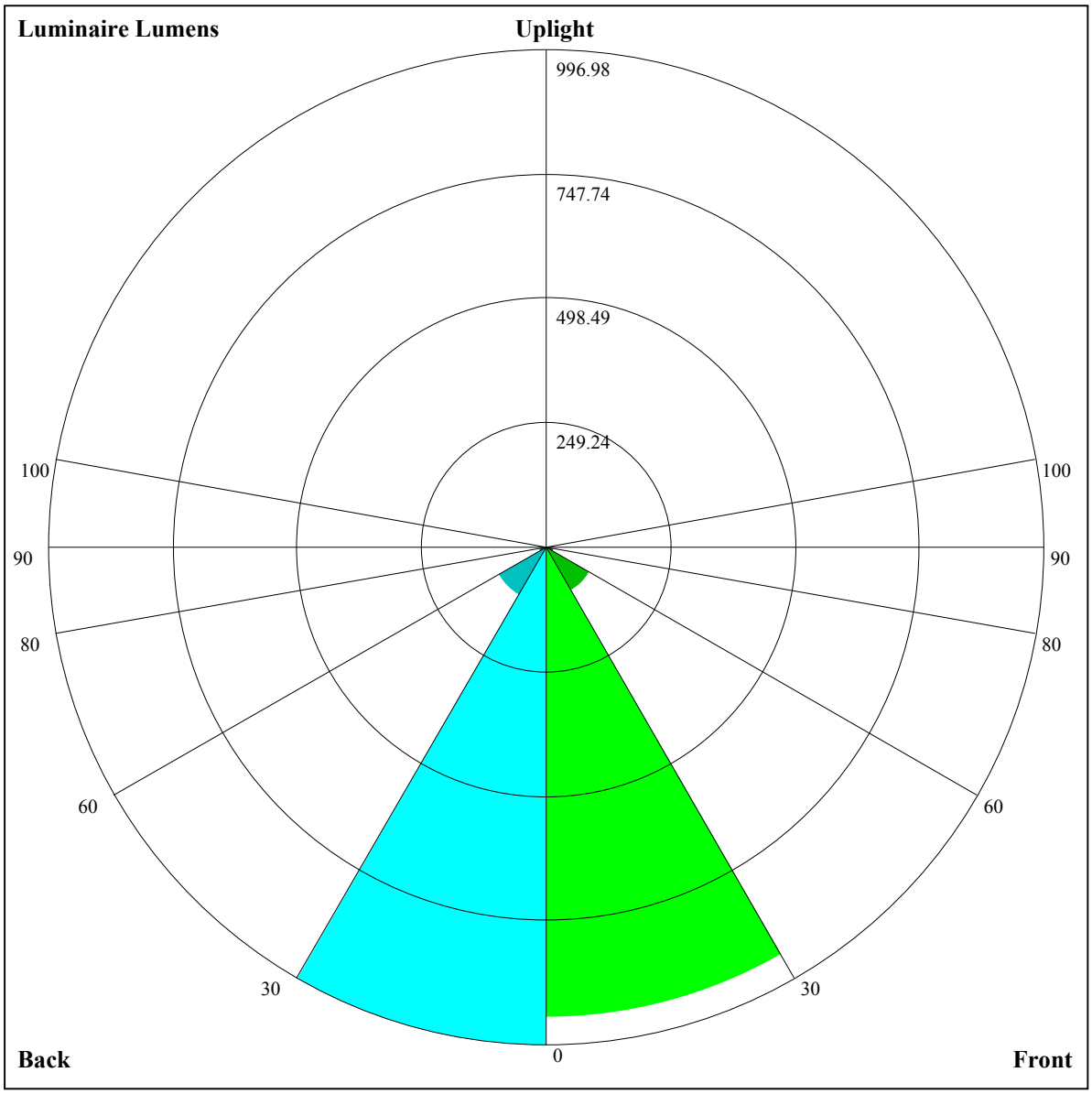
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.99	0.99	0.99	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.83
1	0.93	0.91	0.90	0.91	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.81	0.79
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.78	0.79	0.78	0.77	0.75
3	0.83	0.80	0.77	0.82	0.79	0.77	0.80	0.78	0.75	0.78	0.76	0.74	0.76	0.75	0.73	0.72
4	0.79	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
7	0.70	0.66	0.63	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.57
10	0.63	0.59	0.56	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/15	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:

FL=941.95,FM=99.36,FH=17.2,FVH=5.58

BL=996.98,BM=109.71,BH=16.08,BVH=5.54

UL=0,UH=0

BUG Rating:B2-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	8585.89	8303.82	7935.12	7511.42	6918.59	6447.48	5964.67	5498.83	4940.53
45.0	8780.77	8689.48	8409.16	8076.75	7676.45	7092.40	6611.93	6017.93	5669.13
90.0	8691.23	8424.96	8094.31	7593.35	7126.34	6645.87	6047.19	5579.01	5124.87
135.0	8767.90	8692.99	8496.36	8195.55	7688.16	7226.42	6752.38	6157.21	5689.03
180.0	8585.89	8764.39	8781.94	8687.14	8400.38	8077.92	7682.31	7104.69	6594.37
225.0	8780.77	8755.61	8562.49	8297.96	7959.12	7552.39	6952.53	6450.99	5965.26
270.0	8691.23	8775.51	8755.02	8618.08	8290.36	7930.44	7508.50	6921.51	6407.10
315.0	8767.90	8742.15	8560.14	8285.67	7915.23	7476.89	6887.57	6399.49	5792.03
360.0	8585.89	8303.82	7935.12	7511.42	6918.59	6447.48	5964.67	5498.83	4940.53

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4509.22	4019.97	3658.89	3331.16	2962.47	2704.38	2470.88	2266.63	2044.83
45.0	5096.20	4654.94	4145.79	3778.27	3429.48	3113.46	2768.17	2526.47	2312.28
90.0	4683.03	4171.54	3795.83	3444.11	3129.26	2774.61	2527.06	2312.28	2075.85
135.0	5120.78	4683.61	4270.45	3891.22	3446.45	3122.82	2834.89	2517.70	2298.82
180.0	6090.50	5536.29	5054.65	4605.78	4105.41	3737.31	3379.73	3061.96	2711.99
225.0	5495.91	4913.61	4480.54	3984.86	3624.94	3289.61	2916.82	2654.05	2423.48
270.0	5904.39	5474.25	5005.49	4459.47	4073.22	3634.31	3298.97	2997.00	2665.76
315.0	5323.27	4872.64	4354.13	3974.32	3622.60	3228.16	2946.08	2690.34	2460.93
360.0	4509.22	4019.97	3658.89	3331.16	2962.47	2704.38	2470.88	2266.63	2044.83

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1886.82	1742.27	1603.58	1435.03	1143.35	1143.35	1115.91	973.99	858.93
45.0	2125.60	1919.01	1771.53	1594.80	1461.37	1342.56	1216.16	1111.40	997.28
90.0	1911.99	1765.10	1588.36	1449.66	1148.33	1148.33	1097.88	982.24	867.07
135.0	2112.14	1943.01	1755.15	1610.01	1470.14	1316.81	1214.40	1110.82	967.44
180.0	2472.63	2266.05	2071.76	1854.05	1705.40	1526.91	1394.06	1280.53	1157.05
225.0	2214.55	1984.56	1825.38	1679.65	1536.27	1285.80	1156.93	1156.93	1052.70
270.0	2439.28	2242.06	2010.89	1845.86	1704.82	1560.85	1398.16	1289.89	1195.09
315.0	2209.87	2033.13	1875.12	1729.40	1549.73	1422.74	1167.11	1167.11	1085.65
360.0	1886.82	1742.27	1603.58	1435.03	1143.35	1143.35	1115.91	973.99	858.93

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	722.69	624.55	530.68	421.13	337.56	261.65	195.47	143.03	124.24
45.0	884.92	746.22	641.47	543.73	451.85	345.93	307.89	307.89	153.04
90.0	727.96	625.14	531.38	443.78	340.37	265.11	199.44	143.44	122.90
135.0	848.63	737.44	608.69	512.72	424.35	343.59	306.72	306.72	146.77
180.0	1052.29	939.34	822.30	692.38	594.06	500.43	408.55	313.74	313.74
225.0	915.47	805.62	700.16	573.40	479.30	375.07	300.86	235.03	181.42
270.0	1091.50	953.39	835.76	731.59	607.52	512.13	397.43	315.49	315.49
315.0	943.68	834.47	726.67	621.74	498.49	407.55	324.80	248.84	174.40
360.0	722.69	624.55	530.68	421.13	337.56	261.65	195.47	143.03	124.24

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	110.72	98.55	85.85	77.25	69.47	61.27	55.65	50.68	45.24
45.0	122.37	108.79	96.74	84.51	76.14	67.07	60.92	55.48	50.56
90.0	109.67	95.10	85.21	74.79	67.24	60.80	55.25	50.27	44.89
135.0	126.17	109.91	98.55	88.72	77.95	70.40	63.91	56.83	51.73
180.0	224.32	143.26	122.31	109.91	99.20	87.43	78.89	69.47	63.09
225.0	139.34	123.60	111.43	100.60	88.95	80.41	72.63	64.32	58.52
270.0	226.95	138.76	123.19	110.61	99.55	87.67	79.01	71.22	64.43
315.0	140.57	123.66	107.15	95.98	86.38	75.49	68.18	61.68	54.66
360.0	110.72	98.55	85.85	77.25	69.47	61.27	55.65	50.68	45.24

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	41.55	37.57	34.82	32.48	30.43	28.32	26.98	25.87	24.81
45.0	45.35	41.67	38.45	35.58	32.48	30.37	28.68	26.92	25.75
90.0	41.08	37.86	35.05	32.01	29.96	27.97	26.63	25.40	24.23
135.0	46.23	42.31	38.98	35.99	32.95	30.90	29.14	27.62	25.98
180.0	57.53	52.44	47.05	43.37	40.03	36.46	34.00	31.89	30.02
225.0	53.31	47.64	43.72	39.50	36.58	34.06	31.84	29.44	27.86
270.0	56.88	51.62	47.05	41.96	38.57	34.82	32.36	30.20	28.32
315.0	49.63	45.24	41.38	37.22	34.35	31.84	29.32	27.56	26.04
360.0	41.55	37.57	34.82	32.48	30.43	28.32	26.98	25.87	24.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	23.82	23.12	22.47	22.00	21.71	21.54	21.30	21.01	20.54
45.0	24.70	23.58	22.82	22.24	21.59	21.36	21.30	21.01	20.72
90.0	23.35	22.59	21.83	21.42	21.07	21.01	20.89	20.48	20.07
135.0	24.87	23.88	23.00	22.12	21.54	21.07	20.83	20.72	20.37
180.0	28.03	26.69	25.46	24.23	23.35	22.47	21.89	21.54	21.30
225.0	26.45	25.22	23.88	23.06	22.30	21.71	21.24	21.07	20.66
270.0	26.39	25.11	23.99	23.06	22.12	21.48	21.01	20.72	20.60
315.0	24.76	23.47	22.59	21.71	21.19	20.72	20.48	20.42	20.13
360.0	23.82	23.12	22.47	22.00	21.71	21.54	21.30	21.01	20.54

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.49	18.67	17.91	17.09	16.56	16.50	17.03	17.97	18.84
45.0	20.31	19.49	18.38	17.85	17.85	18.26	19.08	19.20	18.61
90.0	19.37	18.14	17.32	16.44	15.63	14.92	14.34	13.99	13.64
135.0	20.01	19.14	18.20	17.09	16.21	15.57	14.86	14.28	13.87
180.0	20.95	20.66	20.19	19.31	18.14	17.38	16.44	15.80	15.04
225.0	20.31	19.78	18.61	17.73	16.91	16.15	15.74	15.74	15.39
270.0	20.31	19.96	19.43	18.38	17.38	16.50	15.74	15.04	14.51
315.0	19.96	19.31	18.26	17.62	16.74	15.86	15.63	15.63	16.09
360.0	19.49	18.67	17.91	17.09	16.56	16.50	17.03	17.97	18.84

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.08	19.25	18.49	18.32	17.62	16.09	14.81	13.69	11.65
45.0	18.96	19.66	19.14	17.56	17.32	17.21	15.80	15.63	13.64
90.0	13.34	13.05	12.76	12.52	12.23	11.88	11.59	11.29	11.06
135.0	13.52	13.17	12.93	12.58	12.35	12.00	11.76	11.47	11.24
180.0	14.69	14.57	14.34	13.93	13.46	12.99	12.58	12.23	11.82
225.0	15.16	14.98	14.51	13.75	13.11	12.58	12.17	11.70	11.41
270.0	14.10	13.75	13.40	13.11	12.87	12.64	12.23	12.00	11.59
315.0	16.97	17.62	17.50	17.26	16.91	16.44	15.68	14.46	13.58
360.0	19.08	19.25	18.49	18.32	17.62	16.09	14.81	13.69	11.65

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.94	10.53	10.30	10.12	9.89	9.48	9.48	9.25	9.36
45.0	11.29	10.83	10.53	10.18	10.01	9.71	9.48	9.48	9.25
90.0	10.77	10.53	10.24	10.01	9.66	9.48	9.36	9.25	9.36
135.0	10.94	10.59	10.30	10.12	9.83	9.60	9.42	9.42	9.25
180.0	11.53	11.24	10.89	10.48	10.30	10.07	9.77	9.54	9.42
225.0	11.12	10.83	10.53	10.30	10.12	9.83	9.60	9.42	9.48
270.0	11.35	11.12	10.83	10.59	10.36	10.12	9.83	9.48	9.36
315.0	12.76	10.94	10.59	10.30	10.12	9.95	9.71	9.42	9.42
360.0	10.94	10.53	10.30	10.12	9.89	9.48	9.48	9.25	9.36

Intensity data(cd)

C/γ(°)	90.0
0.0	9.25
45.0	9.31
90.0	9.25
135.0	9.36
180.0	9.42
225.0	9.19
270.0	9.25
315.0	9.25
360.0	9.25