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: 3-2807-L
Luminaire: 92.70.412.00
Report No: 2024315-B012
Ballast type: AC

Test No: 2024315-C012	Voltage(V): 34.670
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.450
Lamp flux(lm): 2626.0	Power (W): 15.601
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2172.02, Efficiency(%): 82.71% , Luminous Efficacy(lm/W): 139.22
Central intensity(cd): 4951.063, Maximum intensity(cd): 4951.063
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=35.8
[C90/270]Total=35.8
Field angle(10%Imax): [C0/180]Total=64.6
[C90/270]Total=64.6
Maximum s/h(1/2): C0_180=0.58 C90_270=0.58
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 82.71%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.560%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4951.062	0.000	0	0.00%	0.00%
1.0	4941.625	4.733	4.733	0.18%	0.22%
2.0	4916.534	14.149	18.883	0.54%	0.87%
3.0	4880.762	23.432	42.315	0.89%	1.95%
4.0	4824.434	32.486	74.801	1.24%	3.44%
5.0	4751.354	41.195	115.996	1.57%	5.34%
6.0	4661.302	49.466	165.462	1.88%	7.62%
7.0	4544.696	57.141	222.603	2.18%	10.25%
8.0	4401.682	64.028	286.631	2.44%	13.20%
9.0	4245.427	70.080	356.711	2.67%	16.42%
10.0	4067.080	75.225	431.936	2.86%	19.89%
11.0	3886.684	79.474	511.41	3.03%	23.55%
12.0	3685.367	82.773	594.184	3.15%	27.36%
13.0	3483.830	85.080	679.264	3.24%	31.27%
14.0	3265.760	86.394	765.658	3.29%	35.25%
15.0	3065.174	86.914	852.572	3.31%	39.25%
16.0	2851.348	86.694	939.266	3.30%	43.24%
17.0	2654.054	85.734	1025	3.26%	47.19%
18.0	2444.543	84.065	1109.064	3.20%	51.06%
19.0	2256.906	81.796	1190.86	3.11%	54.83%
20.0	2069.048	79.177	1270.037	3.02%	58.47%
21.0	1895.529	76.128	1346.165	2.90%	61.98%
22.0	1725.814	72.772	1418.937	2.77%	65.33%
23.0	1550.963	68.756	1487.693	2.62%	68.49%
24.0	1375.886	63.991	1551.684	2.44%	71.44%
25.0	1256.690	59.859	1611.543	2.28%	74.20%
26.0	1163.515	57.129	1668.673	2.18%	76.83%
27.0	1053.771	54.246	1722.919	2.07%	79.32%
28.0	952.915	50.805	1773.724	1.93%	81.66%
29.0	845.870	47.061	1820.785	1.79%	83.83%
30.0	733.441	42.641	1863.426	1.62%	85.79%
31.0	622.687	37.739	1901.166	1.44%	87.53%
32.0	521.150	32.770	1933.935	1.25%	89.04%
33.0	418.553	27.684	1961.619	1.05%	90.31%
34.0	330.374	22.665	1984.284	0.86%	91.36%
35.0	254.353	18.159	2002.443	0.69%	92.19%
36.0	217.023	15.009	2017.452	0.57%	92.88%
37.0	132.239	11.391	2028.843	0.43%	93.41%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	92.129	7.489	2036.332	0.29%	93.75%
39.0	80.498	5.892	2042.224	0.22%	94.02%
40.0	72.868	5.349	2047.573	0.20%	94.27%
41.0	66.942	4.979	2052.552	0.19%	94.50%
42.0	62.400	4.699	2057.251	0.18%	94.72%
43.0	58.325	4.472	2061.723	0.17%	94.92%
44.0	54.770	4.269	2065.991	0.16%	95.12%
45.0	51.763	4.094	2070.086	0.16%	95.31%
46.0	48.896	3.937	2074.022	0.15%	95.49%
47.0	46.467	3.793	2077.815	0.14%	95.66%
48.0	44.404	3.673	2081.489	0.14%	95.83%
49.0	42.539	3.570	2085.059	0.14%	96.00%
50.0	40.966	3.482	2088.54	0.13%	96.16%
51.0	39.547	3.406	2091.947	0.13%	96.31%
52.0	38.237	3.338	2095.285	0.13%	96.47%
53.0	36.840	3.266	2098.55	0.12%	96.62%
54.0	35.582	3.192	2101.742	0.12%	96.76%
55.0	34.272	3.118	2104.861	0.12%	96.91%
56.0	32.875	3.034	2107.895	0.12%	97.05%
57.0	31.412	2.939	2110.834	0.11%	97.18%
58.0	29.883	2.834	2113.669	0.11%	97.31%
59.0	28.515	2.730	2116.399	0.10%	97.44%
60.0	27.052	2.625	2119.024	0.10%	97.56%
61.0	25.699	2.517	2121.541	0.10%	97.68%
62.0	24.470	2.417	2123.959	0.09%	97.79%
63.0	23.585	2.337	2126.296	0.09%	97.89%
64.0	22.743	2.273	2128.569	0.09%	98.00%
65.0	22.165	2.222	2130.792	0.08%	98.10%
66.0	21.807	2.194	2132.986	0.08%	98.20%
67.0	21.514	2.178	2135.164	0.08%	98.30%
68.0	21.068	2.157	2137.321	0.08%	98.40%
69.0	20.666	2.129	2139.45	0.08%	98.50%
70.0	20.359	2.107	2141.557	0.08%	98.60%
71.0	19.993	2.086	2143.643	0.08%	98.69%
72.0	19.707	2.064	2145.707	0.08%	98.79%
73.0	19.269	2.038	2147.745	0.08%	98.88%
74.0	18.435	1.982	2149.727	0.08%	98.97%
75.0	17.754	1.912	2151.639	0.07%	99.06%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.345	1.863	2153.502	0.07%	99.15%
77.0	16.569	1.808	2155.311	0.07%	99.23%
78.0	15.721	1.728	2157.039	0.07%	99.31%
79.0	14.967	1.649	2158.688	0.06%	99.39%
80.0	14.053	1.565	2160.252	0.06%	99.46%
81.0	13.197	1.474	2161.726	0.06%	99.53%
82.0	11.990	1.366	2163.092	0.05%	99.59%
83.0	11.295	1.266	2164.358	0.05%	99.65%
84.0	10.893	1.209	2165.566	0.05%	99.70%
85.0	10.512	1.168	2166.735	0.04%	99.76%
86.0	10.198	1.132	2167.867	0.04%	99.81%
87.0	9.598	1.083	2168.95	0.04%	99.86%
88.0	9.371	1.039	2169.989	0.04%	99.91%
89.0	9.225	1.019	2171.008	0.04%	99.95%
90.0	9.283	1.015	2172.023	0.04%	100.00%

Zonal flux distribution table

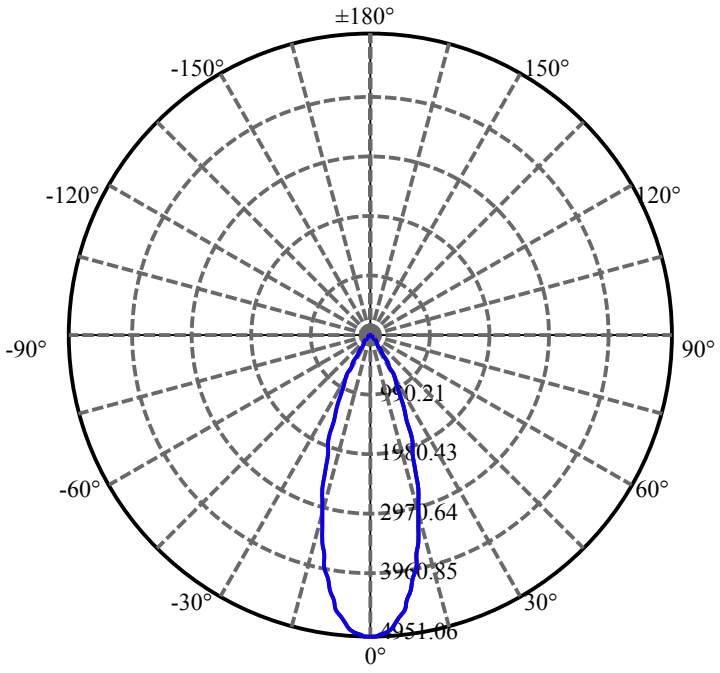
ZONAL LUMEN SUMMARY

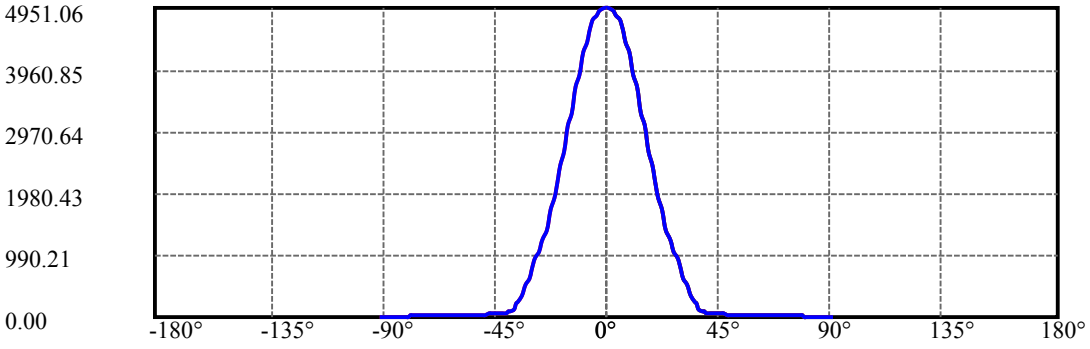
Zone	Lumens	%Lamp	%Fixt
0-30	1863.43	70.96%	85.79%
0-40	2047.57	77.97%	94.27%
0-60	2119.02	80.69%	97.56%
0-90	2171.01	82.67%	99.95%
0-120	2171.01	82.67%	99.95%
0-180	2172.02	82.71%	100.00%
60-90	51.98	1.98%	2.39%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.29	1737.62	66.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	431.94
10-20	838.10
20-30	593.39
30-40	184.15
40-50	40.97
50-60	30.48
60-70	22.53
70-80	18.70
80-90	10.76
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:

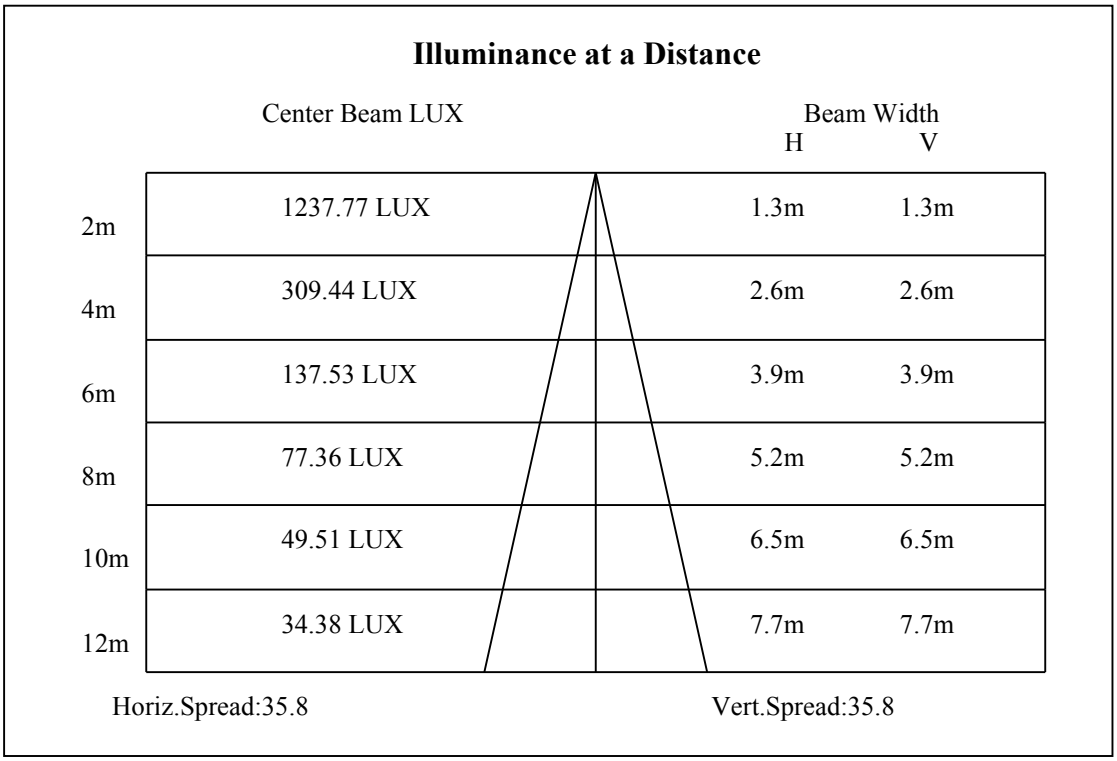
C90/C270:

Field angle(10%Imax):C0/180Left:32.3 Right:32.3
:C90/270Left:32.3 Right:32.3

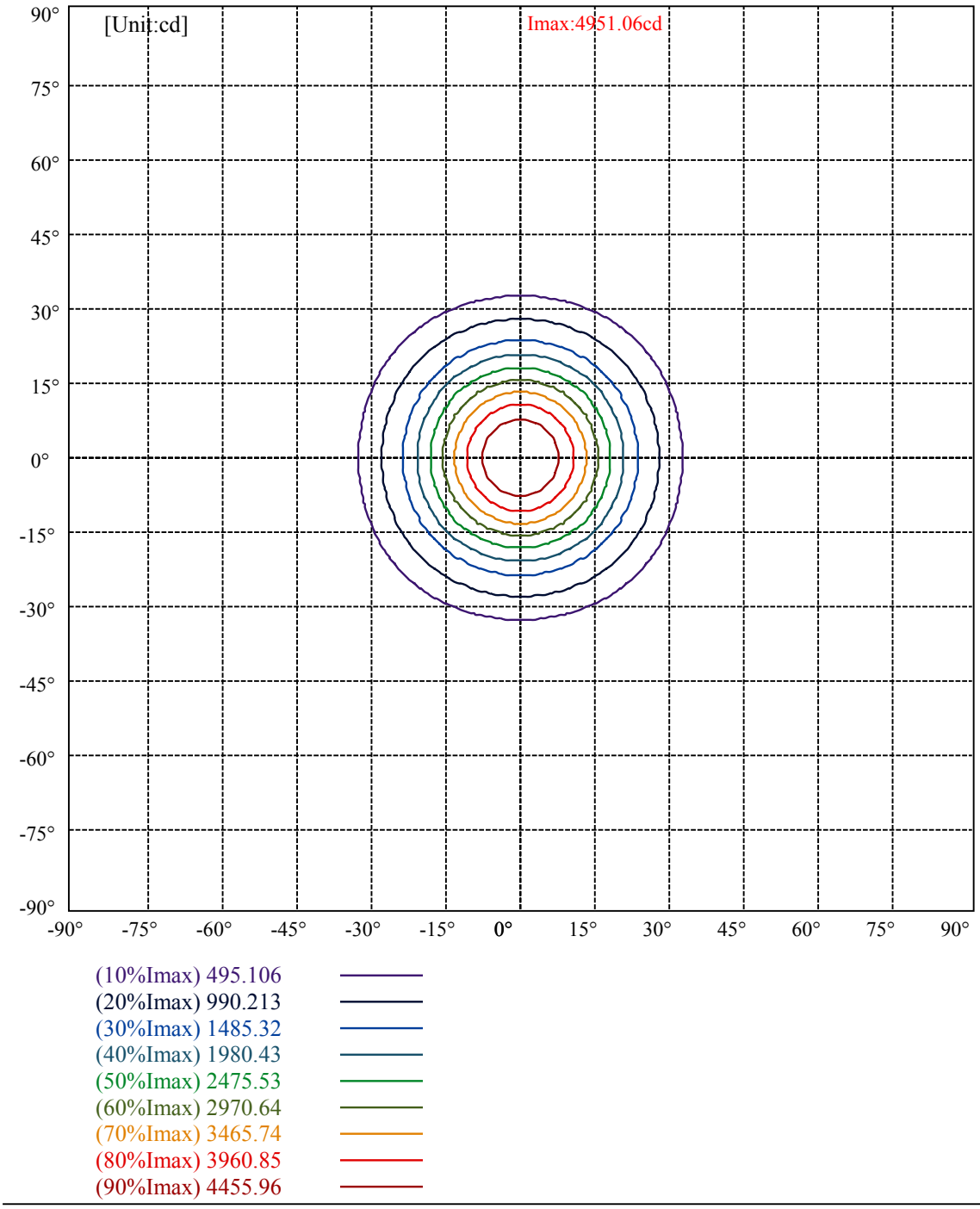
Beam Angle(50%Imax):C0/180Left:17.9 Right:17.9
:C90/270Left:17.9 Right:17.9

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

Lux distance Curve



ISO-Intensity(V-H)

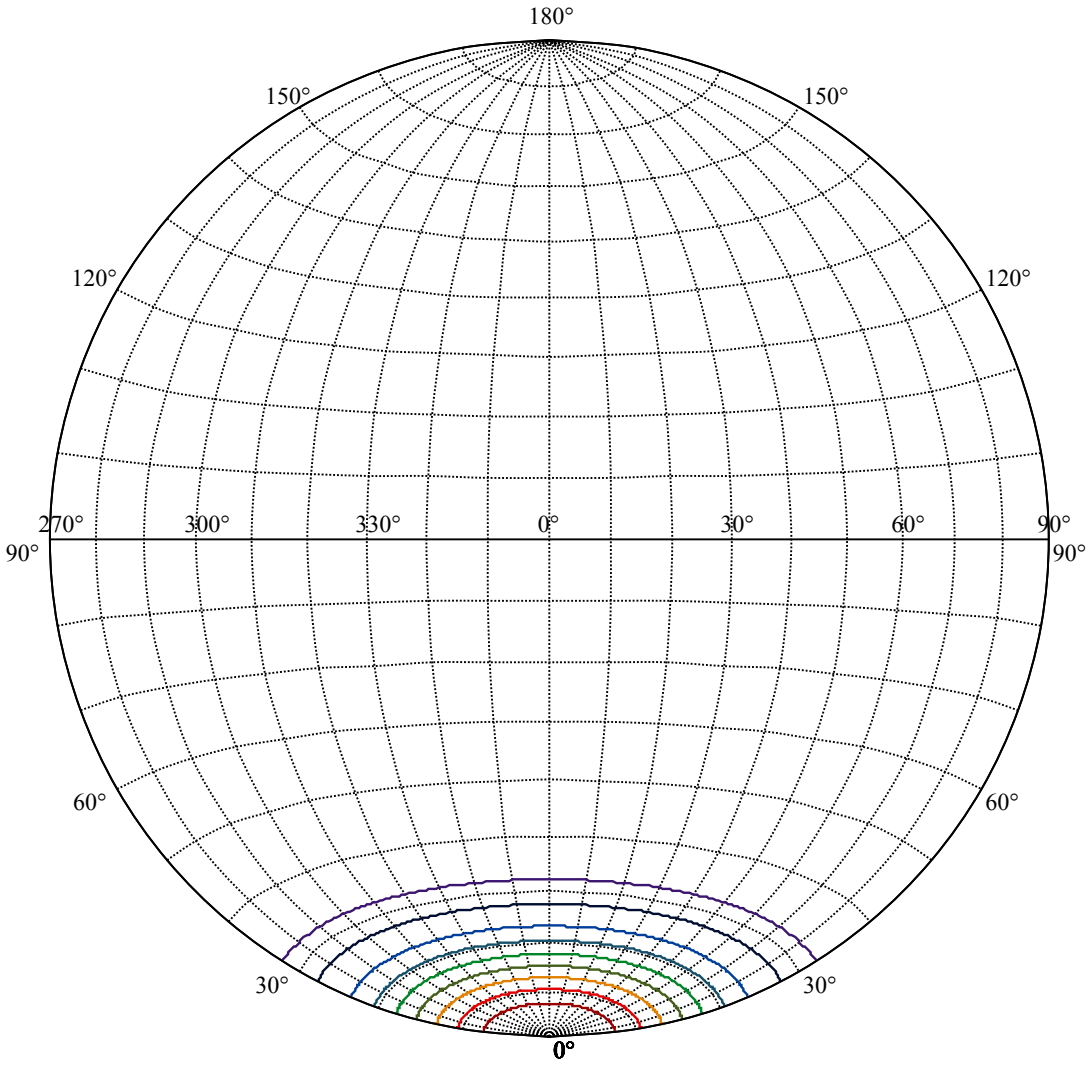


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:4951.06

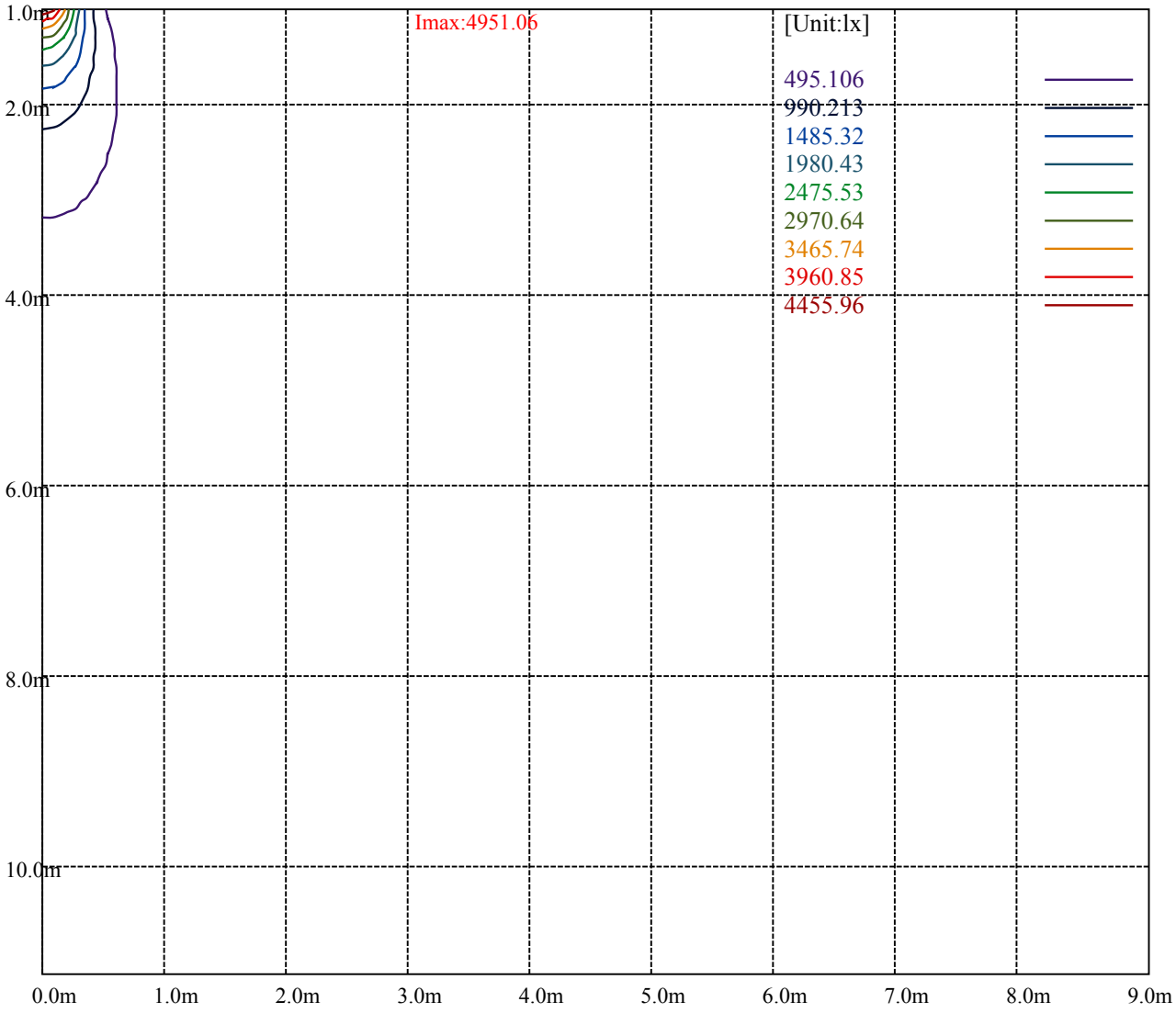
(10%Imax) 495.106
(20%Imax) 990.213
(30%Imax) 1485.32
(40%Imax) 1980.43
(50%Imax) 2475.53
(60%Imax) 2970.64
(70%Imax) 3465.74
(80%Imax) 3960.85
(90%Imax) 4455.96

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
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

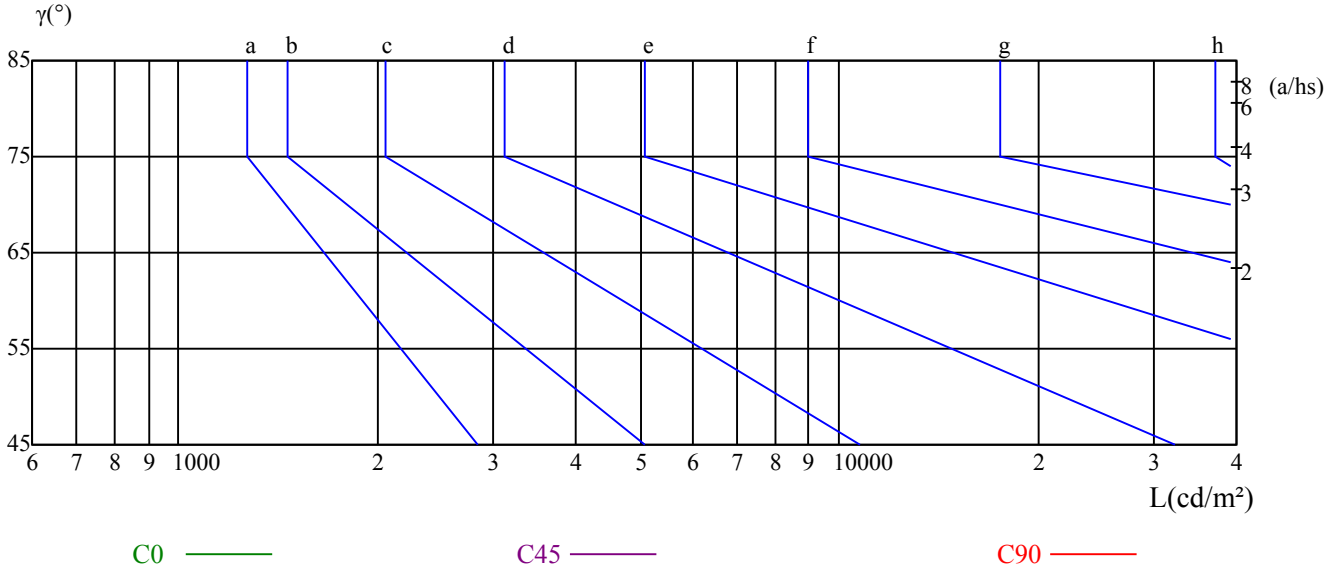
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

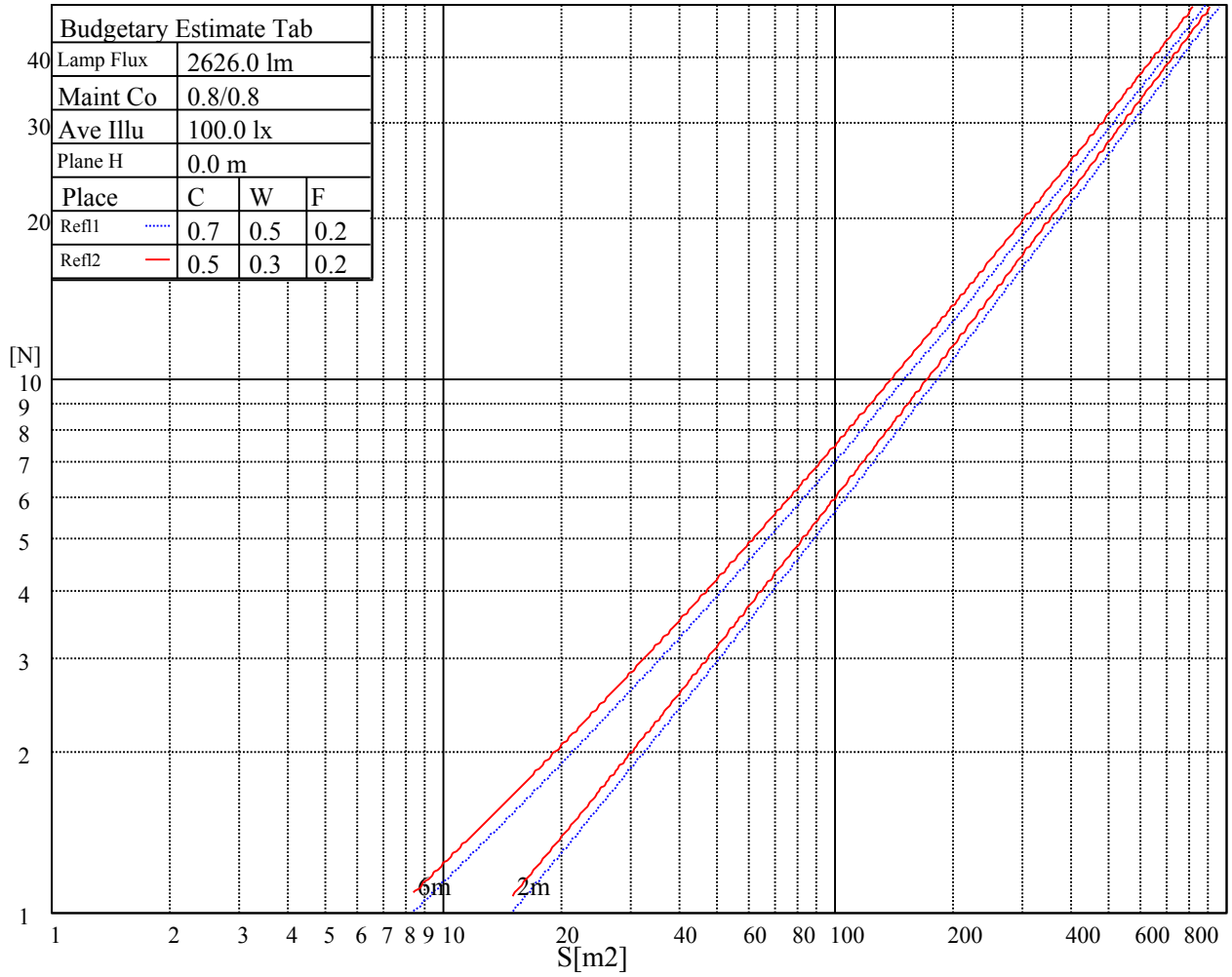
Luminance Limitting Curve



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

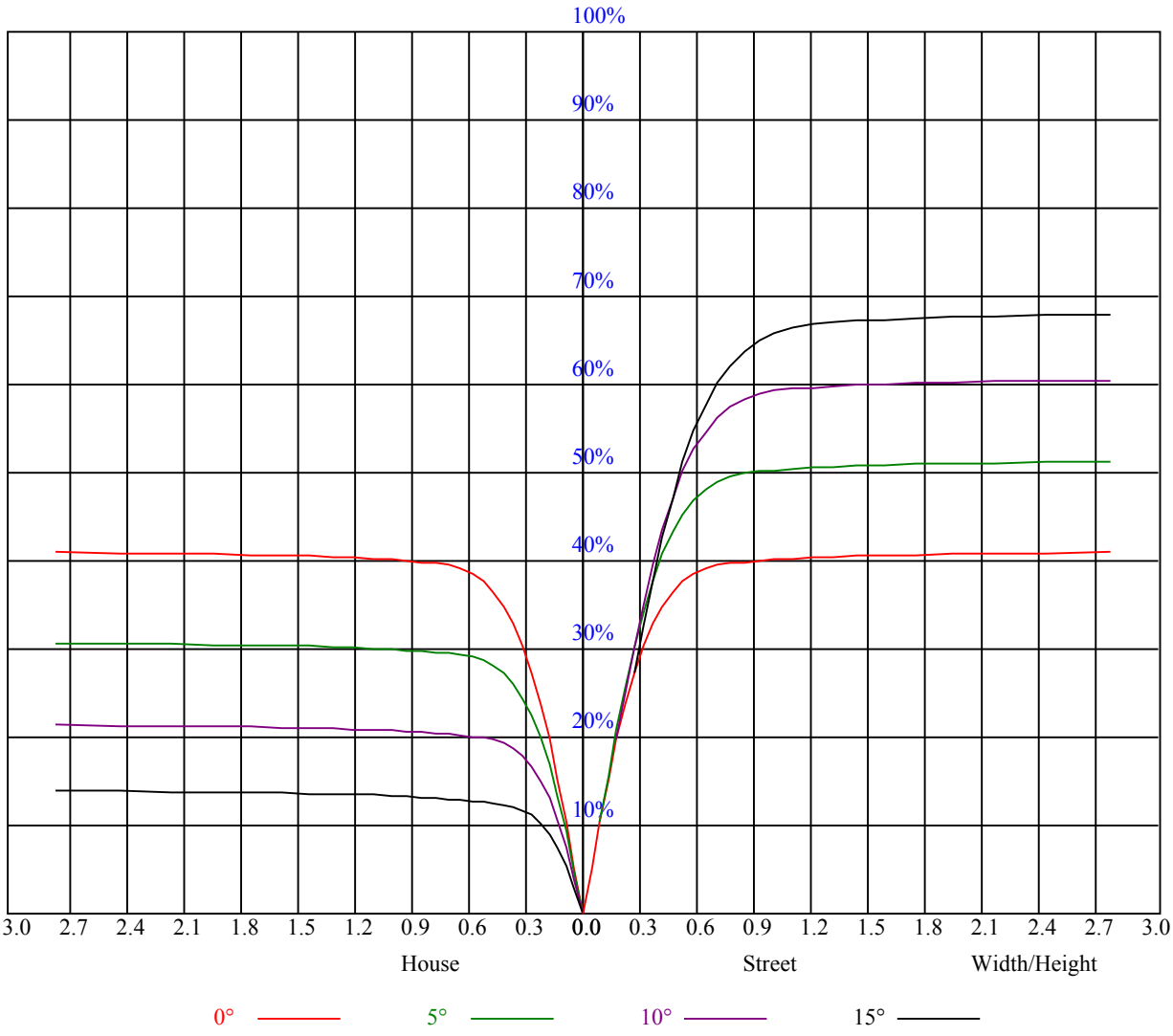


Equipment: GMS1980	Date: 2024/3/15	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Utilization factor table for indoor luminaire

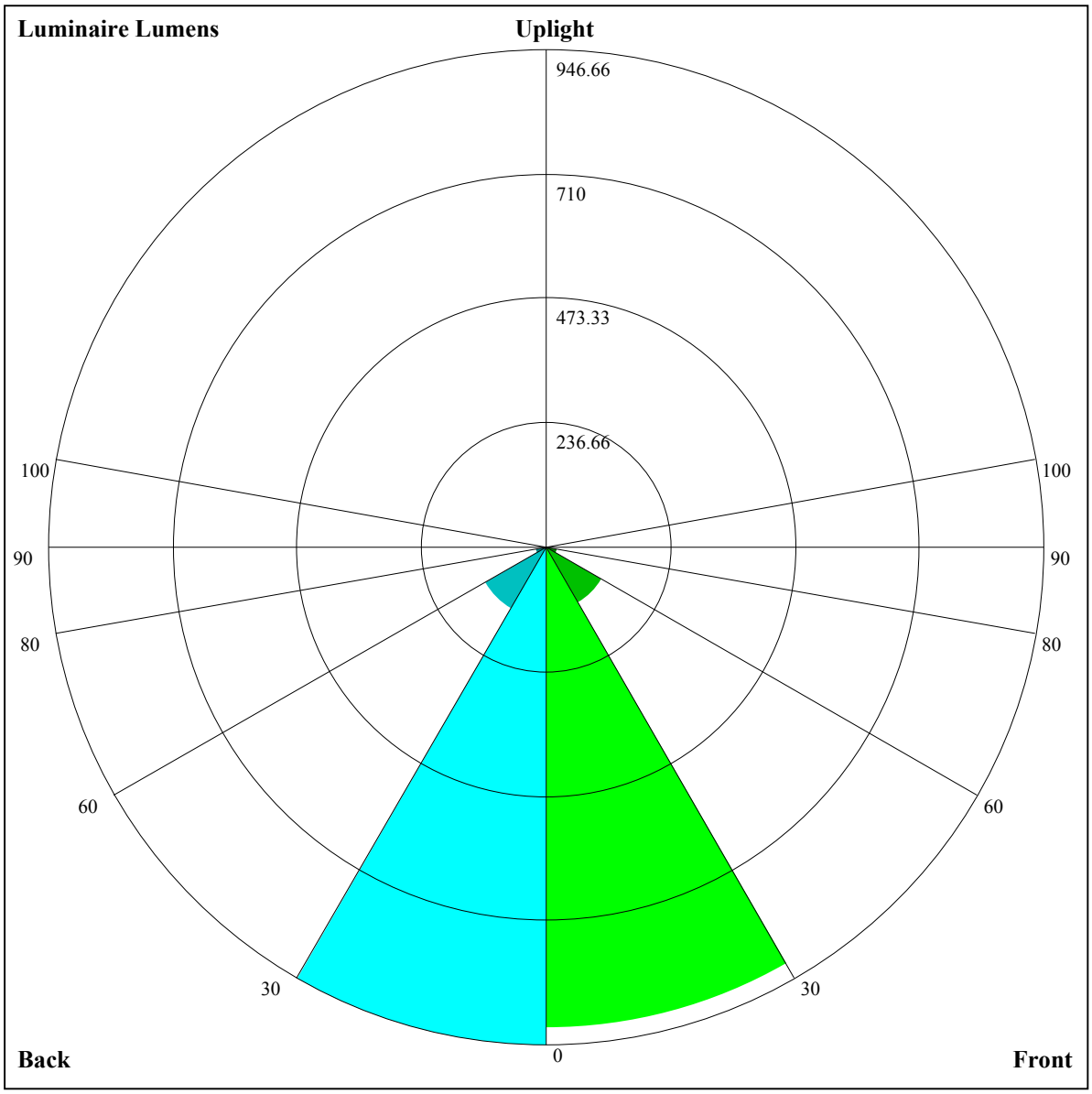
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.98	0.98	0.98	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.83
1	0.92	0.90	0.88	0.90	0.88	0.87	0.87	0.85	0.84	0.84	0.83	0.82	0.81	0.80	0.79	0.78
2	0.86	0.83	0.81	0.85	0.82	0.80	0.82	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.75	0.74
3	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.74	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.73	0.70	0.75	0.71	0.69	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.69	0.66	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
6	0.70	0.66	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
7	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.58	0.57
8	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.55
9	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
10	0.59	0.55	0.52	0.58	0.54	0.52	0.58	0.54	0.52	0.57	0.54	0.52	0.57	0.54	0.51	0.50

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=916.05,FM=122.41,FH=20.32,FVH=5.87
BL=946.66,BM=133.96,BH=20.18,BVH=5.91
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	4942.87	4915.95	4875.57	4824.07	4732.19	4628.60	4515.07	4385.73	4200.80
45.0	4956.33	4957.50	4933.51	4903.07	4866.20	4793.05	4713.46	4612.22	4465.91
90.0	4958.08	4931.16	4898.98	4867.37	4800.07	4734.53	4621.00	4499.85	4357.06
135.0	4946.97	4932.92	4910.68	4878.49	4821.73	4766.13	4692.39	4575.93	4455.38
180.0	4942.87	4955.16	4947.55	4925.31	4879.08	4828.75	4769.64	4677.76	4571.25
225.0	4956.33	4943.45	4905.41	4865.03	4808.27	4708.19	4608.12	4485.22	4340.09
270.0	4958.08	4956.33	4944.62	4907.17	4859.18	4795.39	4725.75	4595.25	4464.15
315.0	4946.97	4940.53	4915.95	4875.57	4828.75	4756.18	4644.99	4525.60	4358.81
360.0	4942.87	4915.95	4875.57	4824.07	4732.19	4628.60	4515.07	4385.73	4200.80

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4035.77	3811.04	3620.26	3427.72	3181.34	2981.19	2779.29	2539.94	2355.00
45.0	4319.60	4165.69	3998.90	3773.59	3582.81	3389.68	3187.78	2934.38	2731.30
90.0	4200.22	3987.20	3805.19	3610.31	3414.85	3162.03	2960.71	2761.15	2565.68
135.0	4319.02	4114.19	3944.48	3715.65	3516.68	3317.11	3115.21	2865.91	2674.54
180.0	4416.17	4268.10	4107.17	3935.70	3753.69	3520.19	3336.43	3139.21	2941.40
225.0	4139.94	3970.81	3792.32	3609.73	3376.81	3190.71	2958.37	2772.27	2583.83
270.0	4327.21	4175.05	4000.66	3773.00	3593.93	3352.23	3162.03	2970.08	2741.25
315.0	4205.49	4044.55	3824.50	3637.23	3450.55	3212.94	3021.58	2827.87	2639.42
360.0	4035.77	3811.04	3620.26	3427.72	3181.34	2981.19	2779.29	2539.94	2355.00

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2178.27	2006.21	1807.23	1656.83	1520.47	1161.61	1161.61	1107.54	1011.15
45.0	2540.52	2305.26	2131.45	1962.90	1766.27	1619.96	1481.85	1316.81	1186.89
90.0	2331.01	2153.10	1945.35	1786.75	1606.50	1471.90	1156.87	1156.87	1105.31
135.0	2483.75	2301.75	2086.39	1919.60	1766.27	1586.02	1449.66	1320.33	1164.07
180.0	2702.63	2513.60	2335.11	2117.99	1950.03	1792.60	1599.48	1468.39	1310.38
225.0	2353.83	2172.41	2001.53	1843.52	1658.59	1518.72	1296.92	1141.13	1116.02
270.0	2563.34	2382.51	2196.41	1986.31	1833.57	1687.26	1548.56	1385.87	1257.71
315.0	2402.99	2220.40	2048.93	1890.34	1704.82	1569.63	1312.13	1156.58	1156.58
360.0	2178.27	2006.21	1807.23	1656.83	1520.47	1161.61	1161.61	1107.54	1011.15

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	883.51	773.20	646.67	551.46	457.76	368.57	270.14	200.15	140.10
45.0	1080.97	993.19	862.68	764.36	656.68	560.70	446.00	358.22	296.18
90.0	993.30	906.16	803.16	669.32	570.13	473.10	378.76	271.78	197.63
135.0	1064.00	975.04	863.27	754.41	652.58	553.68	436.05	348.85	307.30
180.0	1185.72	1079.21	997.87	891.36	780.16	665.46	568.90	472.34	357.63
225.0	1024.67	937.24	836.11	695.95	596.40	474.32	387.77	304.08	210.97
270.0	1143.00	1018.94	927.64	820.54	677.75	578.26	455.36	366.41	301.45
315.0	1054.99	940.34	829.56	720.12	590.02	495.10	405.44	321.17	223.56
360.0	883.51	773.20	646.67	551.46	457.76	368.57	270.14	200.15	140.10

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	104.99	90.42	81.52	75.03	69.23	63.61	59.75	55.77	52.73
45.0	296.18	120.73	91.00	82.52	75.32	69.70	64.02	60.22	56.94
90.0	124.13	88.49	78.89	71.46	64.61	60.34	56.88	53.78	50.39
135.0	307.30	116.52	88.66	79.53	70.52	65.14	60.63	55.95	52.90
180.0	296.77	296.77	124.36	91.94	80.29	73.04	67.42	62.79	58.00
225.0	148.24	103.23	87.08	77.83	71.57	66.60	62.38	57.76	54.54
270.0	301.45	129.92	94.51	83.57	76.31	69.06	64.49	60.51	57.00
315.0	157.13	111.84	91.00	82.11	75.08	68.06	63.61	59.81	55.65
360.0	104.99	90.42	81.52	75.03	69.23	63.61	59.75	55.77	52.73

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	50.15	47.29	45.41	43.54	41.49	40.15	38.86	37.45	35.99
45.0	53.90	50.56	48.28	46.12	43.83	42.19	40.67	39.03	37.75
90.0	47.93	45.82	43.89	41.96	40.50	38.98	37.86	36.75	35.29
135.0	50.04	46.94	44.83	42.90	40.91	39.50	38.39	37.34	35.93
180.0	54.66	51.73	48.46	46.29	44.36	42.72	40.91	39.62	38.39
225.0	51.73	48.57	46.47	44.13	42.49	41.08	39.50	38.22	36.93
270.0	53.02	50.21	47.29	45.18	43.31	41.32	40.03	38.74	37.10
315.0	52.67	50.04	47.11	45.12	43.42	41.79	40.15	38.74	37.34
360.0	50.15	47.29	45.41	43.54	41.49	40.15	38.86	37.45	35.99

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	34.53	33.12	31.72	30.20	28.44	27.21	25.46	24.40	23.35
45.0	36.58	35.00	33.59	32.19	30.31	28.91	27.80	26.34	24.81
90.0	34.24	33.01	31.37	30.08	28.62	27.33	25.87	24.52	23.47
135.0	34.76	33.59	32.07	30.72	29.38	27.68	26.51	25.16	23.64
180.0	36.81	35.70	34.59	33.01	31.66	30.37	28.68	27.39	26.16
225.0	35.76	34.29	32.89	31.54	30.20	28.85	27.27	26.04	25.11
270.0	35.82	34.76	33.53	32.13	30.43	29.09	27.86	26.22	24.93
315.0	36.17	34.70	33.24	31.43	30.02	28.68	26.98	25.52	24.29
360.0	34.53	33.12	31.72	30.20	28.44	27.21	25.46	24.40	23.35

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.06	21.36	21.13	21.07	21.13	21.71	22.59	23.76	24.35
45.0	23.94	23.35	23.06	23.70	24.64	25.28	25.28	24.81	23.76
90.0	22.53	21.19	20.31	19.66	18.67	17.97	17.50	17.15	16.62
135.0	22.71	21.77	20.60	19.55	18.84	18.02	17.26	16.56	15.92
180.0	24.87	23.58	22.47	21.36	20.54	19.66	18.73	17.85	17.67
225.0	25.46	26.16	27.27	28.32	28.85	28.03	27.27	26.98	27.04
270.0	23.82	22.65	21.59	20.66	20.07	19.55	18.96	18.61	18.20
315.0	23.29	21.89	20.89	20.13	19.37	18.32	17.73	17.15	16.39
360.0	22.06	21.36	21.13	21.07	21.13	21.71	22.59	23.76	24.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	23.99	23.70	22.65	22.53	22.00	21.01	19.55	15.98	13.11
45.0	23.76	23.76	22.47	20.78	20.60	19.90	18.02	18.20	16.56
90.0	16.21	15.86	15.45	14.86	14.34	13.64	13.17	12.82	12.35
135.0	15.22	14.57	14.10	13.52	13.11	12.76	12.41	12.06	11.76
180.0	17.38	16.85	16.39	15.86	15.63	15.04	14.75	14.40	14.22
225.0	27.51	26.86	25.05	23.76	23.35	21.65	20.37	19.72	18.61
270.0	17.85	17.21	16.56	16.33	15.68	14.92	14.22	13.64	13.17
315.0	15.74	15.33	14.81	14.40	14.05	13.64	13.28	12.93	12.64
360.0	23.99	23.70	22.65	22.53	22.00	21.01	19.55	15.98	13.11

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.47	11.12	10.83	10.53	10.12	9.54	9.48	9.13	9.19
45.0	15.45	12.47	11.24	10.77	10.36	9.89	9.54	9.36	9.13
90.0	11.88	11.41	10.89	10.42	9.89	9.71	9.48	9.42	9.25
135.0	11.47	11.06	10.71	10.42	10.01	9.77	9.60	9.42	9.19
180.0	13.69	12.87	12.06	11.18	10.71	10.42	9.77	9.48	9.31
225.0	16.68	12.87	11.24	10.83	10.42	9.77	9.48	9.25	9.07
270.0	12.70	12.35	11.88	11.59	11.24	11.06	9.77	9.42	9.48
315.0	12.23	11.76	11.53	11.41	11.35	11.41	9.66	9.48	9.19
360.0	11.47	11.12	10.83	10.53	10.12	9.54	9.48	9.13	9.19

Intensity data(cd)

C/γ(°)	90.0
0.0	9.19
45.0	9.25
90.0	9.36
135.0	9.25
180.0	9.25
225.0	9.19
270.0	9.31
315.0	9.48
360.0	9.19