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NT

Client:
LumCAT: 2-2686-L
Luminaire: 92.70.412.00
Report No: 2024229-B005
Ballast type: AC

Test No: 2024229-C005	Voltage(V): 35.450
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.541
Lamp flux(lm): 2609.0	Power (W): 19.178
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2213.11, Efficiency(%): 84.83% , Luminous Efficacy(lm/W): 115.40
Central intensity(cd): 12095.900, Maximum intensity(cd): 12210.740
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=17.8
[C90/270]Total=17.8
Field angle(10%Imax): [C0/180]Total=45.0
[C90/270]Total=45.0
Maximum s/h(1/2): C0_180=0.31 C90_270=0.31
Maximum s/h(1/4): C0_180=0.33 C90_270=0.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.83%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.136%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	12095.898	0.000	0	0.00%	0.00%
1.0	12210.734	11.630	11.63	0.45%	0.53%
2.0	11876.871	34.573	46.203	1.33%	2.09%
3.0	11364.587	55.586	101.789	2.13%	4.60%
4.0	10684.848	73.807	175.596	2.83%	7.93%
5.0	9843.075	88.310	263.906	3.38%	11.92%
6.0	8937.366	98.696	362.602	3.78%	16.38%
7.0	7920.464	104.636	467.238	4.01%	21.11%
8.0	6982.129	106.655	573.893	4.09%	25.93%
9.0	6055.425	105.662	679.555	4.05%	30.71%
10.0	5173.199	101.615	781.17	3.89%	35.30%
11.0	4428.281	95.939	877.109	3.68%	39.63%
12.0	3801.139	89.959	967.068	3.45%	43.70%
13.0	3264.926	83.856	1050.925	3.21%	47.49%
14.0	2910.426	79.044	1129.969	3.03%	51.06%
15.0	2581.830	75.400	1205.369	2.89%	54.46%
16.0	2308.025	71.650	1277.019	2.75%	57.70%
17.0	2086.159	68.429	1345.448	2.62%	60.79%
18.0	1833.130	64.621	1410.069	2.48%	63.71%
19.0	1675.923	61.050	1471.119	2.34%	66.47%
20.0	1489.632	57.938	1529.057	2.22%	69.09%
21.0	1387.729	55.251	1584.309	2.12%	71.59%
22.0	1272.857	53.466	1637.774	2.05%	74.00%
23.0	1170.304	51.264	1689.038	1.96%	76.32%
24.0	1082.366	49.251	1738.29	1.89%	78.55%
25.0	993.090	47.191	1785.481	1.81%	80.68%
26.0	902.000	44.734	1830.215	1.71%	82.70%
27.0	810.442	41.895	1872.11	1.61%	84.59%
28.0	718.898	38.720	1910.83	1.48%	86.34%
29.0	630.485	35.304	1946.133	1.35%	87.94%
30.0	546.176	31.770	1977.903	1.22%	89.37%
31.0	462.240	28.063	2005.966	1.08%	90.64%
32.0	389.270	24.395	2030.361	0.94%	91.74%
33.0	330.052	21.191	2051.552	0.81%	92.70%
34.0	281.230	18.499	2070.051	0.71%	93.54%
35.0	229.606	15.865	2085.916	0.61%	94.25%
36.0	188.589	13.315	2099.231	0.51%	94.85%
37.0	143.095	10.818	2110.049	0.41%	95.34%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	108.735	8.406	2118.455	0.32%	95.72%
39.0	86.394	6.660	2125.115	0.26%	96.02%
40.0	67.586	5.370	2130.485	0.21%	96.27%
41.0	54.360	4.342	2134.828	0.17%	96.46%
42.0	44.294	3.584	2138.412	0.14%	96.62%
43.0	37.147	3.017	2141.429	0.12%	96.76%
44.0	32.165	2.616	2144.045	0.10%	96.88%
45.0	28.705	2.339	2146.384	0.09%	96.99%
46.0	26.328	2.152	2148.536	0.08%	97.08%
47.0	24.199	2.010	2150.546	0.08%	97.17%
48.0	22.546	1.890	2152.436	0.07%	97.26%
49.0	21.222	1.797	2154.233	0.07%	97.34%
50.0	20.102	1.723	2155.956	0.07%	97.42%
51.0	19.166	1.661	2157.617	0.06%	97.49%
52.0	18.449	1.614	2159.231	0.06%	97.57%
53.0	17.879	1.580	2160.812	0.06%	97.64%
54.0	17.469	1.558	2162.37	0.06%	97.71%
55.0	17.228	1.549	2163.918	0.06%	97.78%
56.0	17.067	1.550	2165.468	0.06%	97.85%
57.0	17.059	1.560	2167.028	0.06%	97.92%
58.0	17.125	1.581	2168.609	0.06%	97.99%
59.0	17.279	1.608	2170.218	0.06%	98.06%
60.0	17.491	1.643	2171.86	0.06%	98.14%
61.0	17.659	1.677	2173.538	0.06%	98.21%
62.0	17.710	1.704	2175.242	0.07%	98.29%
63.0	17.652	1.720	2176.962	0.07%	98.37%
64.0	17.330	1.717	2178.678	0.07%	98.44%
65.0	16.840	1.691	2180.369	0.06%	98.52%
66.0	16.196	1.648	2182.018	0.06%	98.60%
67.0	15.523	1.595	2183.613	0.06%	98.67%
68.0	15.099	1.551	2185.164	0.06%	98.74%
69.0	14.689	1.520	2186.684	0.06%	98.81%
70.0	14.250	1.486	2188.17	0.06%	98.87%
71.0	13.936	1.457	2189.627	0.06%	98.94%
72.0	13.767	1.440	2191.067	0.06%	99.00%
73.0	13.482	1.425	2192.492	0.05%	99.07%
74.0	13.241	1.405	2193.897	0.05%	99.13%
75.0	12.999	1.386	2195.283	0.05%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.773	1.368	2196.651	0.05%	99.26%
77.0	12.487	1.347	2197.998	0.05%	99.32%
78.0	12.209	1.322	2199.32	0.05%	99.38%
79.0	11.917	1.296	2200.616	0.05%	99.44%
80.0	11.587	1.267	2201.884	0.05%	99.49%
81.0	11.192	1.232	2203.116	0.05%	99.55%
82.0	10.922	1.199	2204.315	0.05%	99.60%
83.0	10.622	1.171	2205.486	0.04%	99.66%
84.0	10.388	1.145	2206.63	0.04%	99.71%
85.0	10.176	1.122	2207.753	0.04%	99.76%
86.0	9.978	1.102	2208.854	0.04%	99.81%
87.0	9.803	1.083	2209.937	0.04%	99.86%
88.0	9.671	1.067	2211.004	0.04%	99.90%
89.0	9.576	1.055	2212.059	0.04%	99.95%
90.0	9.546	1.048	2213.107	0.04%	100.00%

Zonal flux distribution table

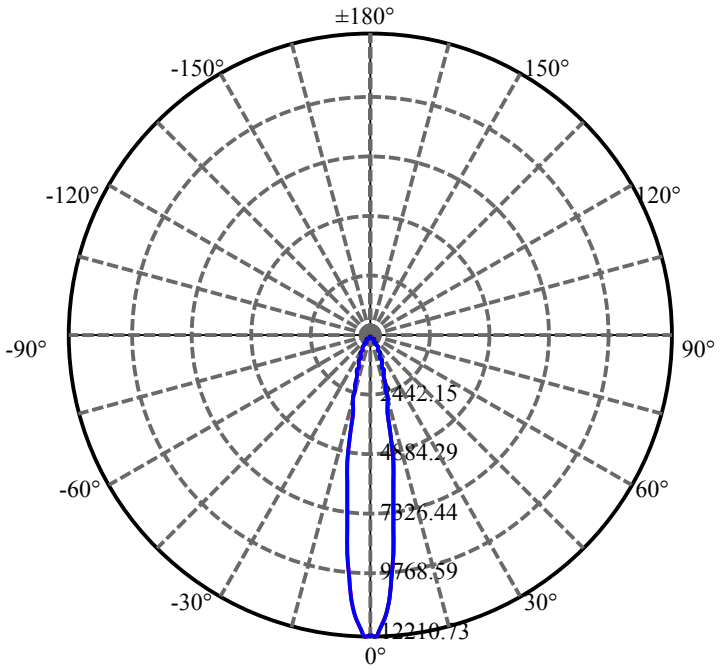
ZONAL LUMEN SUMMARY

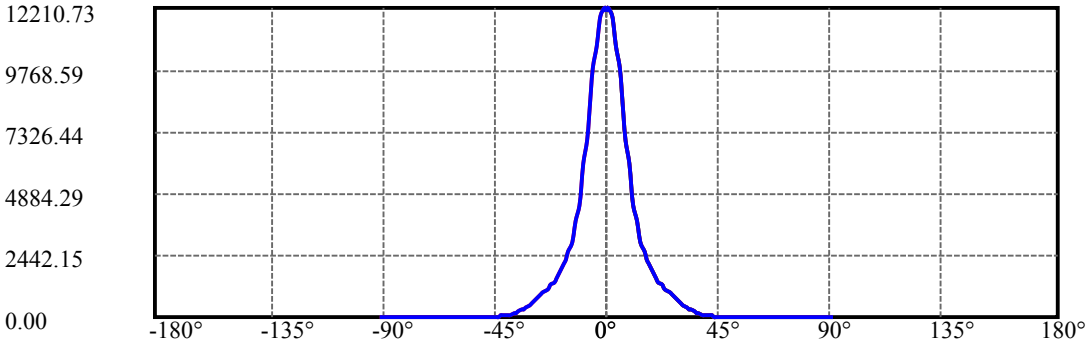
Zone	Lumens	%Lamp	%Fixt
0-30	1977.90	75.81%	89.37%
0-40	2130.49	81.66%	96.27%
0-60	2171.86	83.24%	98.14%
0-90	2212.06	84.79%	99.95%
0-120	2212.06	84.79%	99.95%
0-180	2213.11	84.83%	100.00%
60-90	40.20	1.54%	1.82%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.68	1770.49	67.86%	80.00%

ZONAL LUMEN SUMMARY

0-10	781.17
10-20	747.89
20-30	448.85
30-40	152.58
40-50	25.47
50-60	15.90
60-70	16.31
70-80	13.71
80-90	10.17
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):

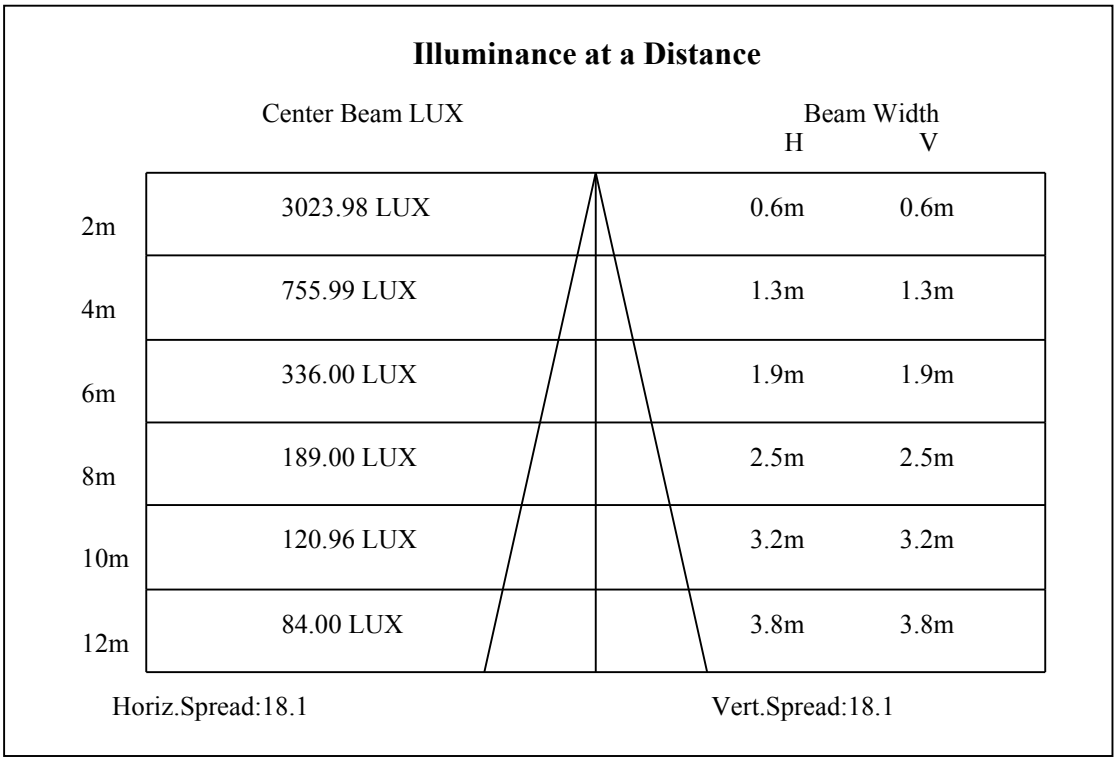
C0/C180:

C90/C270:

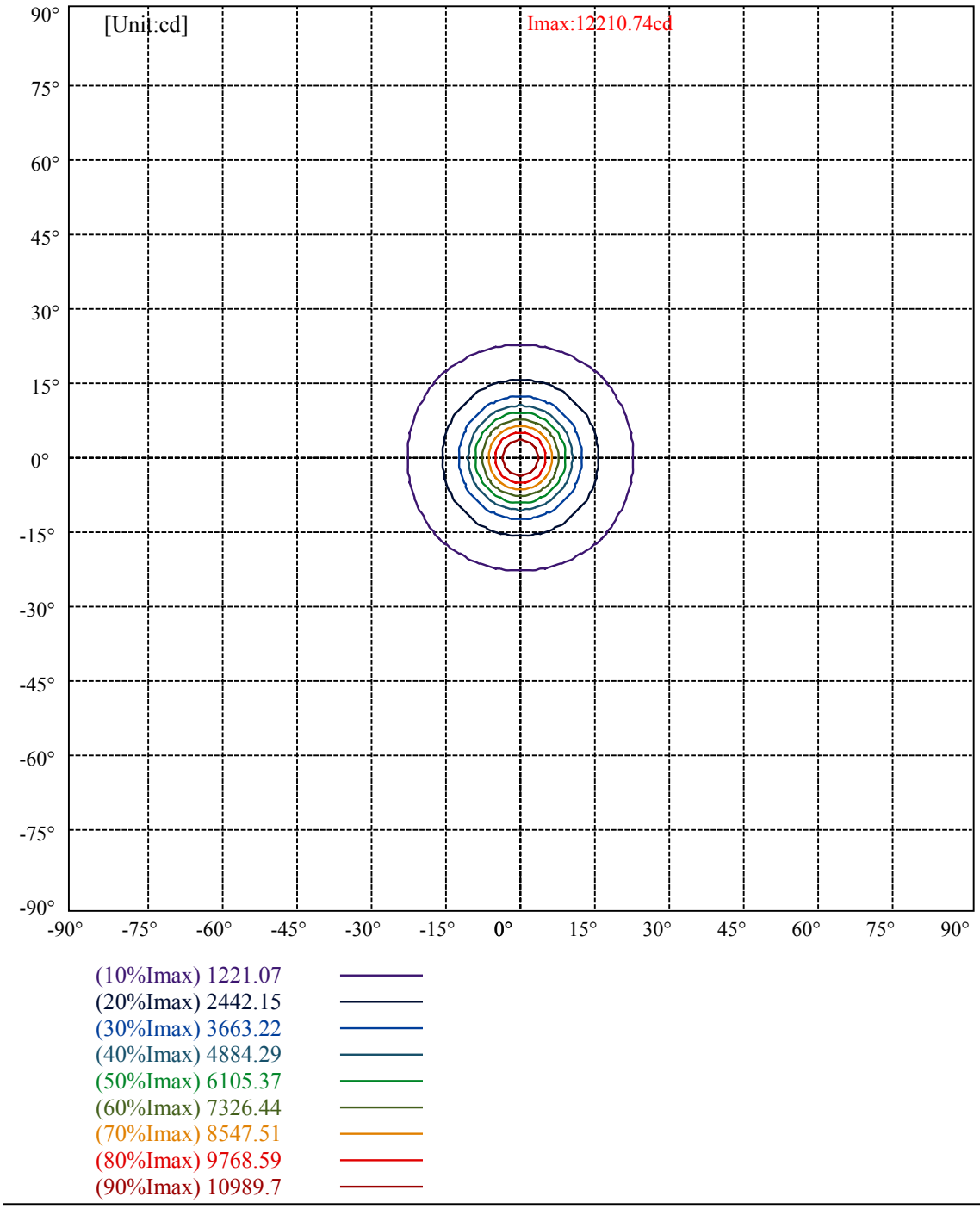
Field angle(10%Imax):C0/180Left:23.5 Right:21.5
:C90/270Left:23.5 Right:21.5

Beam Angle(50%Imax):C0/180Left:9.9 Right:7.9
:C90/270Left:9.9 Right:7.9

Lux distance Curve



ISO-Intensity(V-H)

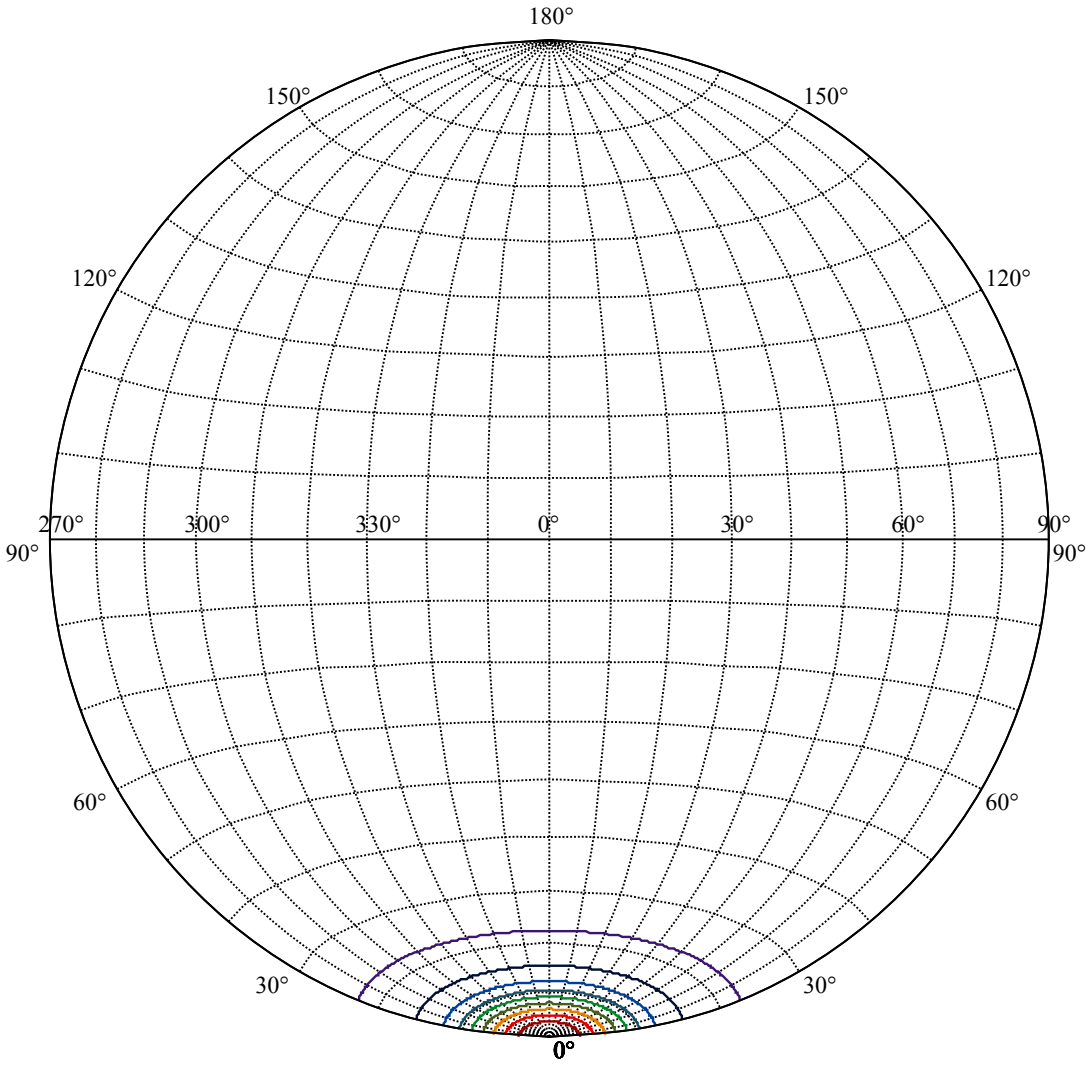


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



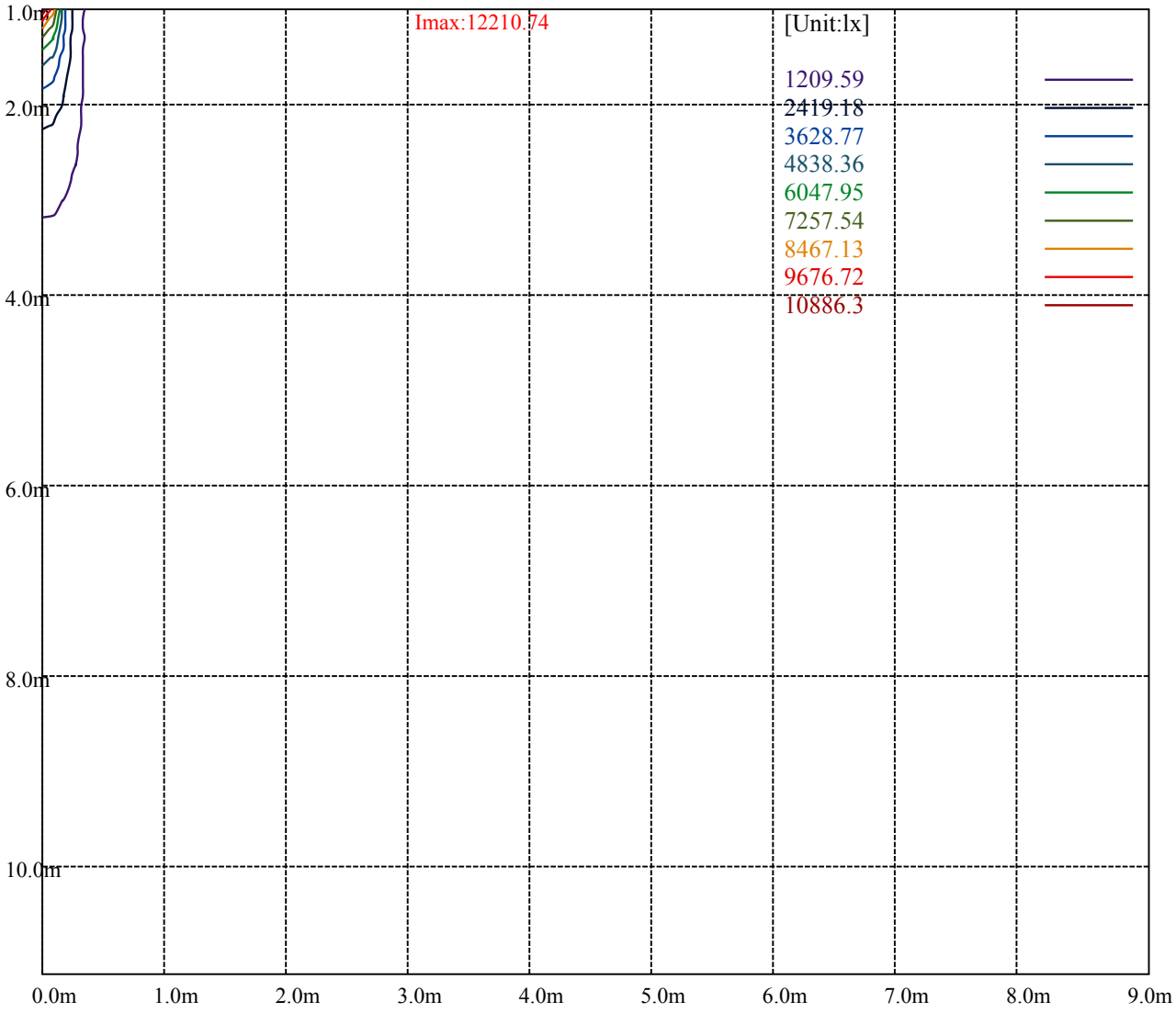
[Unit:cd]

Imax:12210.74

(10%Imax) 1221.07
(20%Imax) 2442.15
(30%Imax) 3663.22
(40%Imax) 4884.29
(50%Imax) 6105.37
(60%Imax) 7326.44
(70%Imax) 8547.51
(80%Imax) 9768.59
(90%Imax) 10989.7

Equipment: GMS1980	Date: 2024/2/29	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

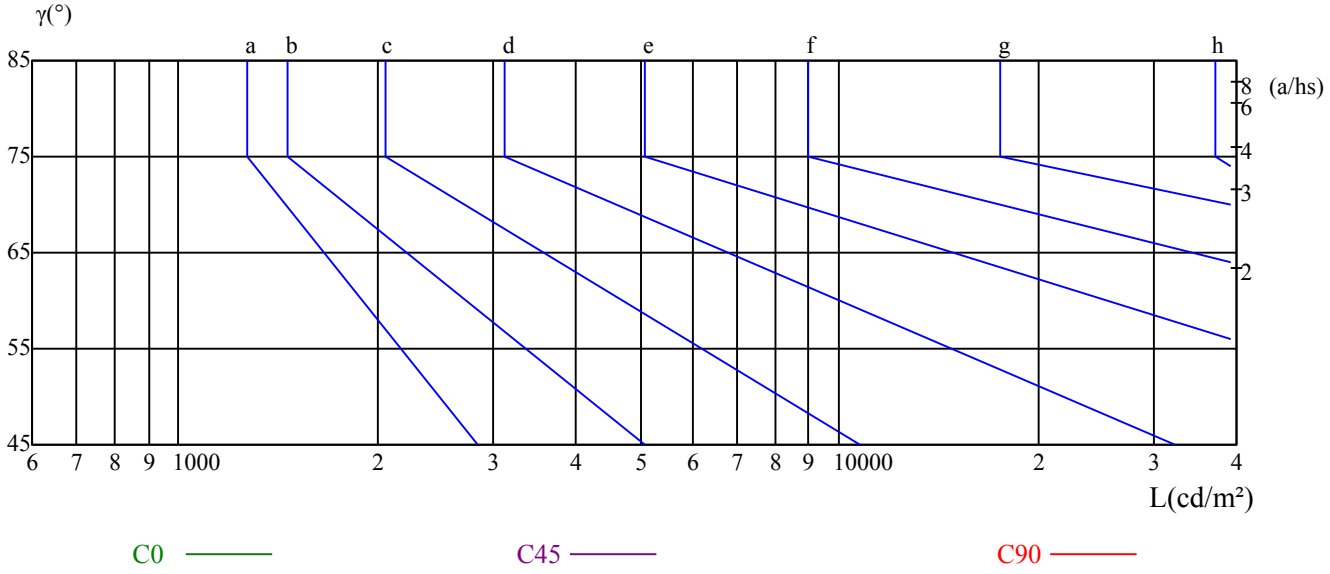
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

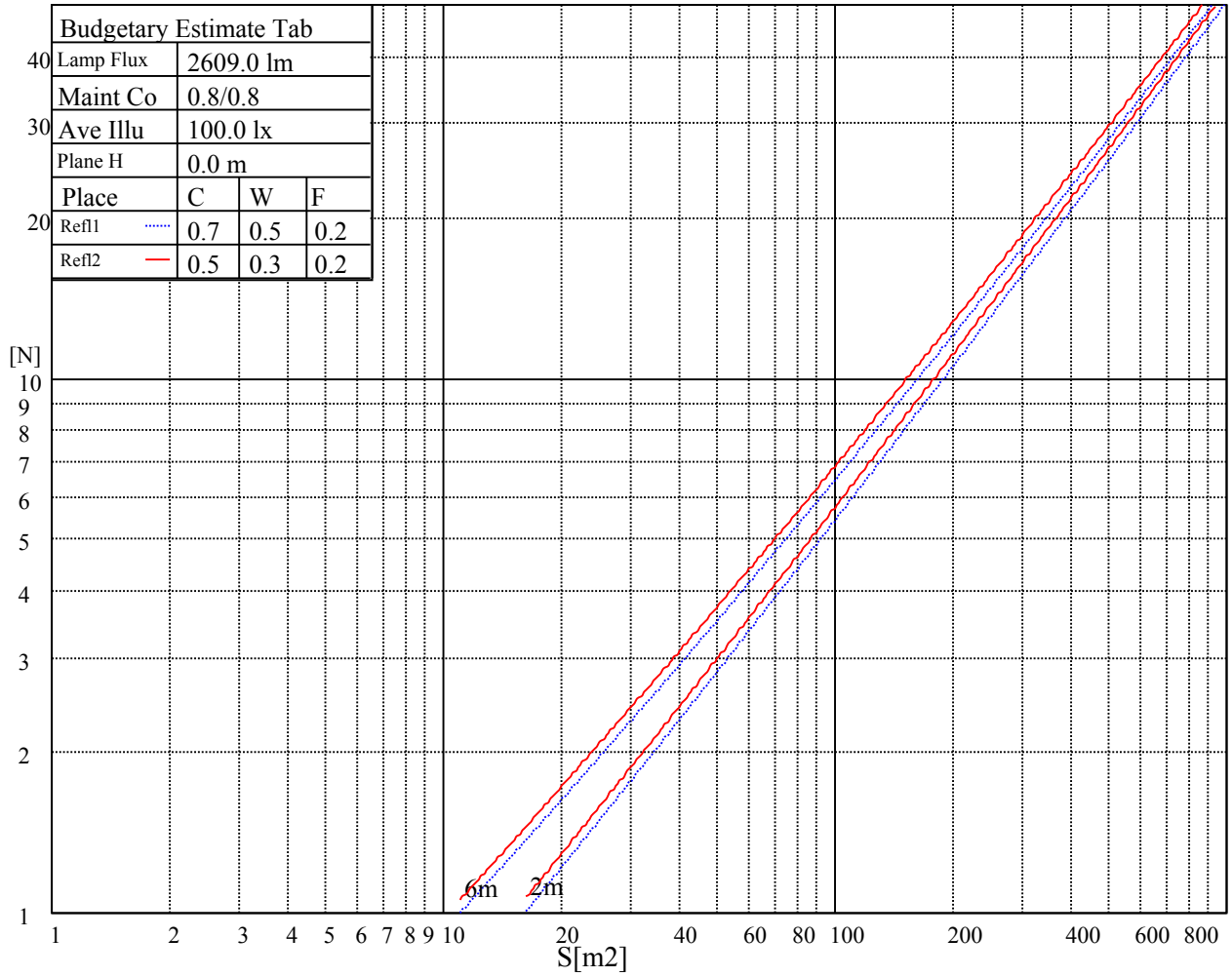
Luminance Limitting Curve



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

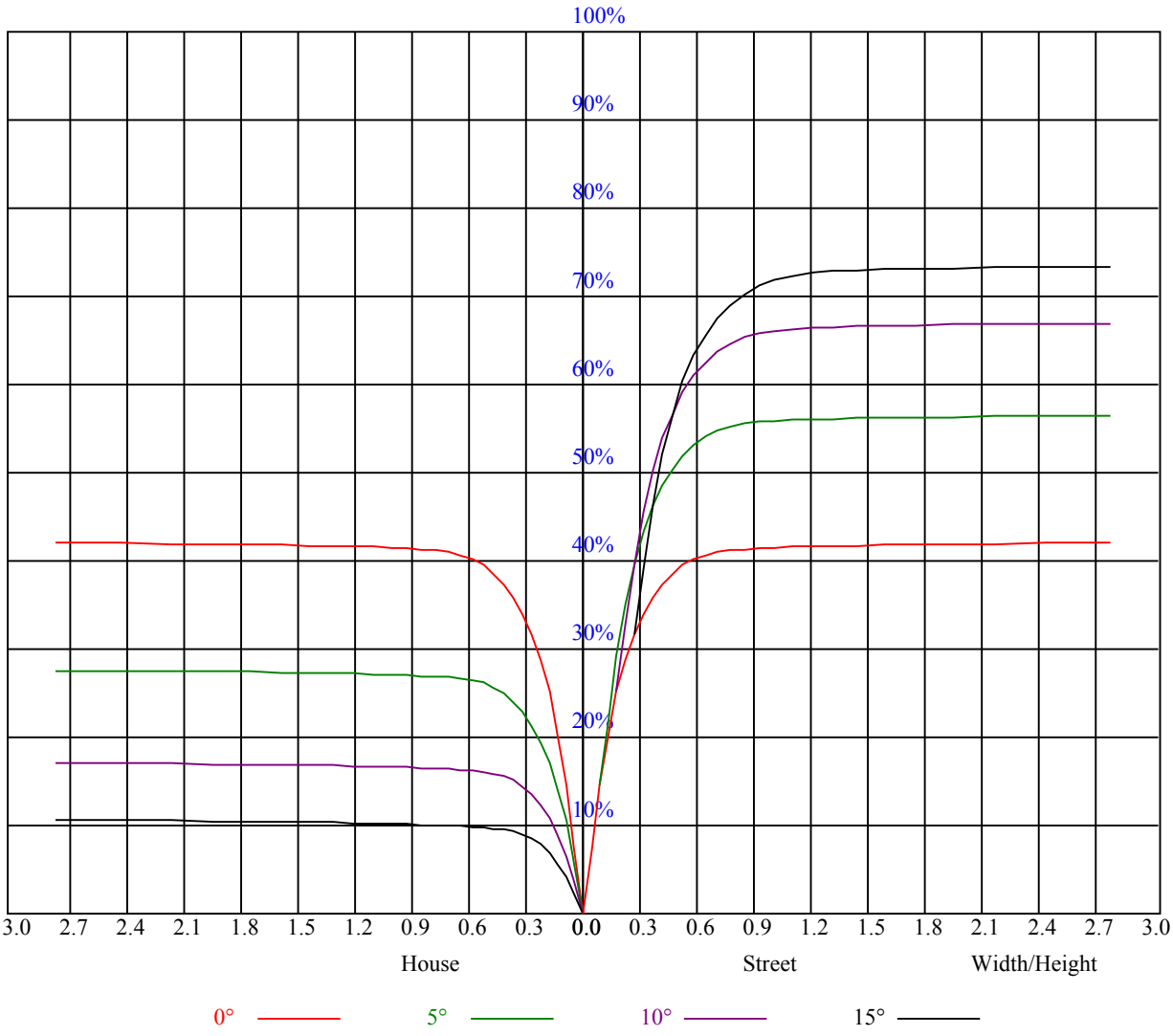


Equipment: GMS1980 Date: 2024/2/29 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

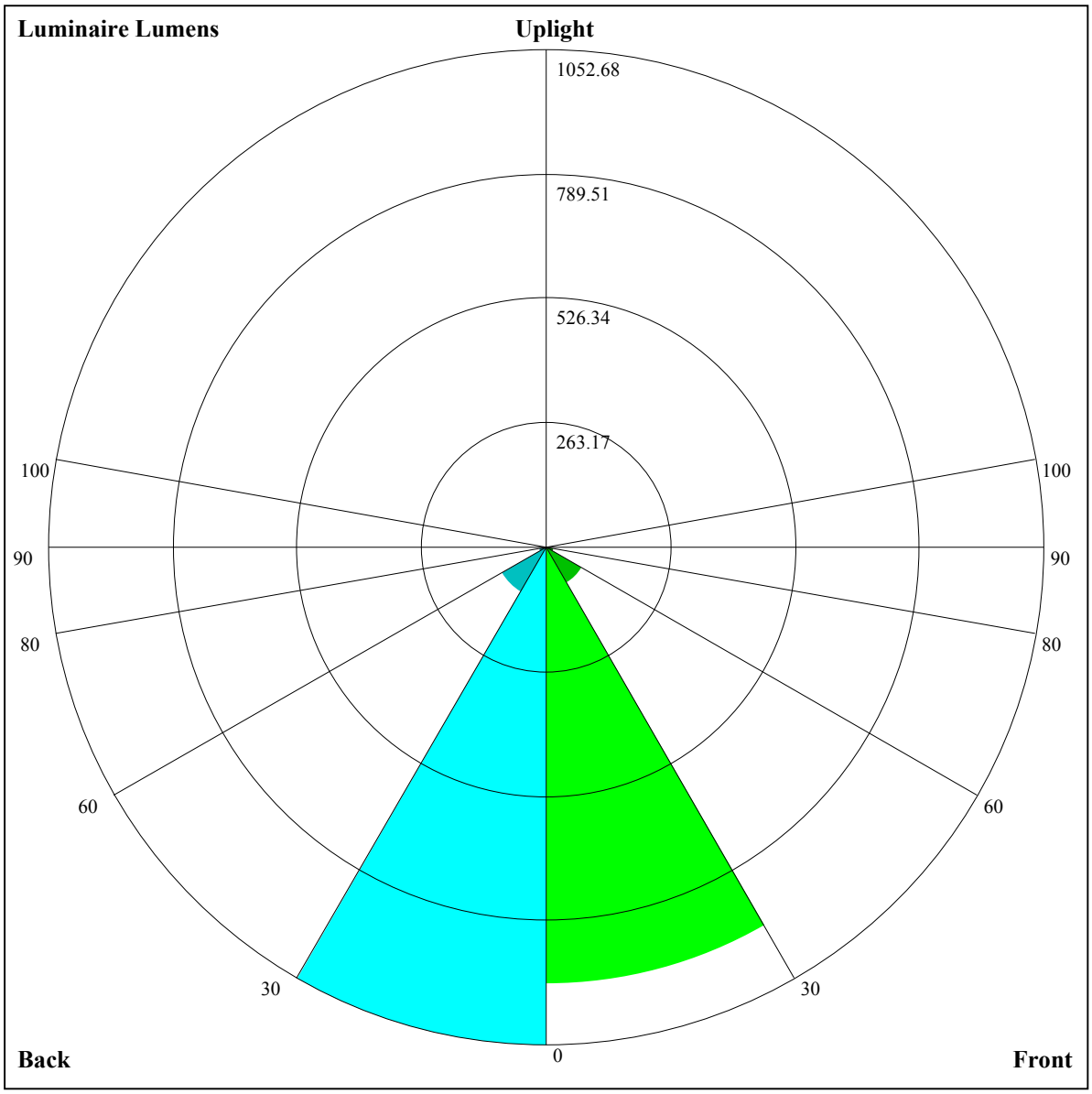
Utilization factor table for indoor luminaire

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	1.01	1.01	1.01	0.99	0.99	0.99	0.94	0.94	0.94	0.90	0.90	0.90	0.87	0.87	0.87	0.85
1	0.95	0.93	0.92	0.93	0.92	0.90	0.90	0.89	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81
2	0.90	0.87	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.84	0.82	0.80	0.81	0.80	0.79	0.77
3	0.86	0.82	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.77	0.79	0.77	0.76	0.74
4	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.75	0.73	0.76	0.74	0.73	0.72
5	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.74	0.72	0.70	0.69
6	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.70	0.68	0.67
7	0.73	0.69	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.64
8	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
9	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.61
10	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/29	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=922.52,FM=87.61,FH=14.9,FVH=5.56
BL=1052.68,BM=108.28,BH=14.9,BVH=5.67
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	11672.96	11521.38	10831.40	10015.60	9102.06	7925.76	6985.30	6083.47	5246.02
45.0	12533.18	12199.60	11708.01	11040.85	10005.01	9086.20	8143.99	6985.25	6101.56
90.0	11591.61	11591.61	11269.74	10304.12	9404.62	8477.04	7306.59	6406.52	5562.04
135.0	12585.85	12468.80	12141.08	11637.78	10759.95	9917.22	9010.12	7845.53	6920.87
180.0	11672.96	12410.28	12585.85	12439.54	12094.26	11573.41	10701.42	9870.40	8957.45
225.0	12533.18	12568.29	12345.91	11568.20	11407.26	10693.29	9882.75	8726.35	7749.02
270.0	11591.61	12556.59	12533.18	12310.79	11778.24	11140.34	10408.81	9589.50	8424.90
315.0	12585.85	12369.32	11599.80	11599.80	10927.38	9931.33	9059.93	7856.70	6895.18
360.0	11672.96	11521.38	10831.40	10015.60	9102.06	7925.76	6985.30	6083.47	5246.02

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4328.38	3721.50	3232.26	2751.79	2453.91	2216.31	1974.02	1814.84	1674.39
45.0	5293.95	4562.41	3801.62	3298.33	2988.16	2988.16	2254.35	2048.35	1876.88
90.0	4801.83	3988.95	3444.69	3009.87	2669.85	2332.18	2112.72	1928.37	1739.35
135.0	6043.03	5235.42	4340.03	3731.39	3134.47	3034.98	3034.98	2170.66	1981.63
180.0	7775.30	6809.68	5920.14	5130.08	4211.28	3614.35	3146.17	2953.05	2953.05
225.0	6791.01	5662.11	4871.47	4192.61	3506.73	3067.81	2713.75	2363.20	2140.23
270.0	7435.87	6476.10	5592.41	4656.05	3983.04	3321.74	2999.86	2999.86	2330.42
315.0	5974.04	4929.41	4223.63	3638.99	3171.98	2707.89	2418.79	2185.87	1993.33
360.0	4328.38	3721.50	3232.26	2751.79	2453.91	2216.31	1974.02	1814.84	1674.39

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1512.87	1395.23	1147.74	1147.74	1082.72	995.41	907.63	799.71	712.92
45.0	1731.15	1562.61	1440.30	1304.53	1209.13	1122.52	1014.25	926.47	836.35
90.0	1601.82	1473.66	1158.39	1158.39	1136.74	1029.06	943.32	857.30	747.68
135.0	1825.38	1686.68	1524.57	1407.52	1302.77	1206.79	1096.77	1009.57	921.20
180.0	2184.70	1992.75	1803.14	1660.34	1493.55	1380.02	1277.02	1185.72	1079.21
225.0	1955.30	1758.66	1616.45	1486.53	1370.07	1150.20	1150.20	1066.51	984.88
270.0	2061.81	1890.34	1709.50	1564.95	1436.20	1326.76	1203.28	1116.67	1034.15
315.0	1792.02	1647.47	1516.96	1371.83	1151.66	1151.66	1066.46	982.77	899.61
360.0	1512.87	1395.23	1147.74	1147.74	1082.72	995.41	907.63	799.71	712.92

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	624.32	542.04	450.80	384.32	322.05	253.87	207.23	159.18	128.11
45.0	745.64	635.03	553.10	478.77	409.13	328.95	298.52	298.52	166.85
90.0	660.31	577.27	501.89	432.42	349.50	289.69	237.66	182.82	147.24
135.0	831.08	721.06	635.61	536.71	462.39	376.94	316.08	301.45	301.45
180.0	996.11	908.91	821.71	712.28	623.91	541.39	449.51	382.80	321.35
225.0	880.06	793.62	705.14	618.06	519.50	450.86	385.49	311.46	259.14
270.0	952.22	866.19	755.00	667.22	563.04	490.48	424.93	346.51	303.79
315.0	793.80	707.07	620.63	539.64	448.40	381.98	321.00	267.10	208.93
360.0	624.32	542.04	450.80	384.32	322.05	253.87	207.23	159.18	128.11

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	102.77	82.05	61.86	50.50	42.19	36.40	31.60	28.85	26.63
45.0	133.84	107.39	81.99	66.31	51.50	43.13	36.87	32.60	29.03
90.0	118.63	90.77	73.39	59.87	47.05	39.50	34.18	29.73	27.21
135.0	170.36	130.21	104.40	83.39	66.19	51.15	42.43	36.52	32.36
180.0	307.30	243.16	167.84	128.34	102.24	80.76	64.20	49.39	41.38
225.0	202.20	164.16	132.32	105.63	79.18	62.74	50.45	41.61	34.24
270.0	303.79	190.26	145.31	115.70	91.35	71.98	53.96	43.72	36.64
315.0	169.83	136.77	102.77	81.40	60.98	49.22	40.67	34.76	29.85
360.0	102.77	82.05	61.86	50.50	42.19	36.40	31.60	28.85	26.63

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	24.40	22.88	21.59	20.31	19.43	18.61	18.14	17.73	17.44
45.0	26.92	25.11	23.58	22.30	20.95	20.01	19.31	18.55	18.08
90.0	25.34	23.64	21.89	20.78	19.78	19.02	18.20	17.79	17.26
135.0	28.79	26.57	24.29	22.77	21.36	20.07	19.14	18.43	17.91
180.0	35.87	32.01	28.56	26.34	24.52	23.00	21.36	20.37	19.25
225.0	30.37	27.62	24.93	23.23	21.77	20.42	19.43	18.55	17.97
270.0	30.84	27.86	25.57	23.23	21.77	20.48	19.31	18.49	17.91
315.0	27.10	24.93	23.17	21.42	20.19	19.20	18.43	17.67	17.21
360.0	24.40	22.88	21.59	20.31	19.43	18.61	18.14	17.73	17.44

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.26	17.32	17.32	17.50	17.79	17.97	18.14	18.08	17.79
45.0	17.73	17.56	17.50	17.56	17.73	17.91	18.14	18.32	18.38
90.0	17.09	16.97	16.97	17.15	17.32	17.62	17.91	17.97	17.79
135.0	17.38	17.03	16.85	16.80	16.80	16.97	17.26	17.62	17.67
180.0	18.61	18.08	17.67	17.44	17.26	17.21	17.26	17.44	17.67
225.0	17.56	17.26	16.97	16.91	16.91	17.03	17.32	17.56	17.73
270.0	17.32	16.97	16.74	16.62	16.56	16.68	16.85	17.03	17.32
315.0	16.80	16.62	16.50	16.50	16.62	16.85	17.03	17.26	17.32
360.0	17.26	17.32	17.32	17.50	17.79	17.97	18.14	18.08	17.79

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.38	16.74	15.80	15.10	14.40	14.05	13.81	13.58	13.40
45.0	18.14	17.67	16.91	16.21	15.92	16.91	17.73	17.50	17.26
90.0	17.50	16.80	16.09	15.27	14.46	13.99	13.52	13.23	12.99
135.0	17.73	17.32	16.85	15.98	15.22	14.51	13.93	13.34	12.93
180.0	17.85	18.02	17.97	17.67	17.09	16.39	15.68	14.92	14.75
225.0	17.79	17.67	17.32	16.68	15.98	15.27	14.46	14.05	13.87
270.0	17.50	17.44	17.26	16.85	16.04	15.39	14.63	14.16	13.46
315.0	17.32	16.97	16.50	15.80	15.10	14.28	13.75	13.23	12.82
360.0	17.38	16.74	15.80	15.10	14.40	14.05	13.81	13.58	13.40

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.34	13.17	13.05	12.76	12.58	12.23	11.94	11.47	11.00
45.0	17.09	16.27	15.92	15.39	14.86	14.40	13.81	13.28	12.70
90.0	12.76	12.70	12.47	12.29	12.06	11.76	11.53	11.29	11.06
135.0	12.70	12.52	12.41	12.29	12.11	11.82	11.59	11.35	11.06
180.0	15.10	15.04	14.69	14.46	14.34	14.16	13.87	13.64	13.17
225.0	13.46	13.05	12.76	12.52	12.29	12.00	11.76	11.59	11.35
270.0	13.11	12.76	12.52	12.29	12.11	11.94	11.76	11.53	11.35
315.0	12.58	12.35	12.11	12.00	11.82	11.59	11.41	11.18	11.00
360.0	13.34	13.17	13.05	12.76	12.58	12.23	11.94	11.47	11.00

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.71	10.53	10.30	10.24	9.83	9.71	9.60	9.54	9.48
45.0	11.18	10.65	10.42	10.30	10.18	9.83	9.66	9.54	9.48
90.0	10.83	10.59	10.36	10.24	10.01	9.77	9.66	9.42	9.48
135.0	10.89	10.65	10.48	10.24	10.12	9.95	9.77	9.66	9.48
180.0	12.87	12.47	11.59	10.83	10.53	10.24	10.07	9.89	9.77
225.0	11.18	10.94	10.71	10.48	10.30	10.12	9.89	9.77	9.66
270.0	11.12	10.94	10.71	10.53	10.30	10.18	9.95	9.83	9.71
315.0	10.77	10.59	10.42	10.24	10.12	10.01	9.83	9.71	9.54
360.0	10.71	10.53	10.30	10.24	9.83	9.71	9.60	9.54	9.48

Intensity data(cd)

C/γ(°)	90.0
0.0	9.48
45.0	9.48
90.0	9.48
135.0	9.48
180.0	9.66
225.0	9.54
270.0	9.71
315.0	9.54
360.0	9.48