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NT

Client:
LumCAT: 2-2687-L
Luminaire: 92.70.412.00
Report No: 2024301-B023
Ballast type: AC

Test No: 2024301-C023	Voltage(V): 33.970
LampCAT: LUMINUS CXM-14-AC40	Current(A): 0.530
Lamp flux(lm): 2575.0	Power (W): 18.004
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2152.41, Efficiency(%): 83.59% , Luminous Efficacy(lm/W): 119.55
Central intensity(cd): 8349.172, Maximum intensity(cd): 8349.172
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=22.6
[C90/270]Total=22.6
Field angle(10%Imax): [C0/180]Total=55.2
[C90/270]Total=55.2
Maximum s/h(1/2): C0_180=0.38 C90_270=0.38
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.59%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.081%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8349.171	0.000	0	0.00%	0.00%
1.0	8301.695	7.967	7.967	0.31%	0.37%
2.0	8113.984	23.561	31.528	0.92%	1.46%
3.0	7826.272	38.124	69.652	1.48%	3.24%
4.0	7447.339	51.126	120.778	1.99%	5.61%
5.0	7035.268	62.303	183.081	2.42%	8.51%
6.0	6605.420	71.685	254.767	2.78%	11.84%
7.0	6134.094	79.074	333.841	3.07%	15.51%
8.0	5637.238	84.245	418.086	3.27%	19.42%
9.0	5178.129	87.653	505.739	3.40%	23.50%
10.0	4725.531	89.625	595.363	3.48%	27.66%
11.0	4300.219	90.186	685.549	3.50%	31.85%
12.0	3912.214	89.774	775.323	3.49%	36.02%
13.0	3507.531	88.054	863.376	3.42%	40.11%
14.0	3180.464	85.606	948.982	3.32%	44.09%
15.0	2875.123	83.134	1032.116	3.23%	47.95%
16.0	2601.749	80.252	1112.367	3.12%	51.68%
17.0	2362.392	77.305	1189.672	3.00%	55.27%
18.0	2141.250	74.255	1263.928	2.88%	58.72%
19.0	1966.780	71.471	1335.399	2.78%	62.04%
20.0	1791.213	68.782	1404.181	2.67%	65.24%
21.0	1607.928	65.270	1469.451	2.53%	68.27%
22.0	1469.434	61.841	1531.292	2.40%	71.14%
23.0	1355.191	59.268	1590.56	2.30%	73.90%
24.0	1207.202	56.023	1646.583	2.18%	76.50%
25.0	1115.410	52.811	1699.394	2.05%	78.95%
26.0	1008.818	50.143	1749.537	1.95%	81.28%
27.0	894.531	46.566	1796.103	1.81%	83.45%
28.0	789.703	42.641	1838.744	1.66%	85.43%
29.0	685.898	38.606	1877.35	1.50%	87.22%
30.0	583.045	34.261	1911.611	1.33%	88.81%
31.0	491.757	29.910	1941.521	1.16%	90.20%
32.0	408.875	25.802	1967.324	1.00%	91.40%
33.0	337.016	21.974	1989.298	0.85%	92.42%
34.0	283.717	18.785	2008.083	0.73%	93.29%
35.0	227.740	15.884	2023.967	0.62%	94.03%
36.0	184.748	13.134	2037.101	0.51%	94.64%
37.0	146.489	10.803	2047.904	0.42%	95.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	105.333	8.405	2056.309	0.33%	95.54%
39.0	83.965	6.461	2062.771	0.25%	95.84%
40.0	67.711	5.290	2068.06	0.21%	96.08%
41.0	55.531	4.389	2072.449	0.17%	96.28%
42.0	45.435	3.668	2076.117	0.14%	96.46%
43.0	38.976	3.127	2079.244	0.12%	96.60%
44.0	33.680	2.742	2081.986	0.11%	96.73%
45.0	30.227	2.456	2084.442	0.10%	96.84%
46.0	27.352	2.252	2086.694	0.09%	96.95%
47.0	25.113	2.087	2088.781	0.08%	97.04%
48.0	23.394	1.961	2090.742	0.08%	97.13%
49.0	21.997	1.864	2092.606	0.07%	97.22%
50.0	20.849	1.786	2094.392	0.07%	97.30%
51.0	19.920	1.725	2096.117	0.07%	97.38%
52.0	19.217	1.679	2097.796	0.07%	97.46%
53.0	18.727	1.651	2099.447	0.06%	97.54%
54.0	18.369	1.635	2101.082	0.06%	97.62%
55.0	18.149	1.630	2102.712	0.06%	97.69%
56.0	18.040	1.635	2104.347	0.06%	97.77%
57.0	18.047	1.650	2105.997	0.06%	97.84%
58.0	18.113	1.672	2107.67	0.06%	97.92%
59.0	18.244	1.700	2109.369	0.07%	98.00%
60.0	18.354	1.729	2111.098	0.07%	98.08%
61.0	18.325	1.750	2112.849	0.07%	98.16%
62.0	18.149	1.758	2114.606	0.07%	98.24%
63.0	17.754	1.746	2116.352	0.07%	98.32%
64.0	17.154	1.713	2118.065	0.07%	98.40%
65.0	16.525	1.667	2119.732	0.06%	98.48%
66.0	15.838	1.615	2121.347	0.06%	98.56%
67.0	15.230	1.562	2122.909	0.06%	98.63%
68.0	14.857	1.524	2124.433	0.06%	98.70%
69.0	14.675	1.507	2125.94	0.06%	98.77%
70.0	14.433	1.495	2127.435	0.06%	98.84%
71.0	14.353	1.488	2128.922	0.06%	98.91%
72.0	14.345	1.492	2130.415	0.06%	98.98%
73.0	14.155	1.490	2131.905	0.06%	99.05%
74.0	14.016	1.481	2133.386	0.06%	99.12%
75.0	13.687	1.464	2134.85	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.248	1.430	2136.28	0.06%	99.25%
77.0	12.846	1.391	2137.671	0.05%	99.32%
78.0	12.378	1.350	2139.021	0.05%	99.38%
79.0	11.748	1.296	2140.317	0.05%	99.44%
80.0	11.046	1.229	2141.546	0.05%	99.50%
81.0	10.739	1.178	2142.724	0.05%	99.55%
82.0	10.483	1.151	2143.875	0.04%	99.60%
83.0	10.271	1.128	2145.003	0.04%	99.66%
84.0	10.073	1.108	2146.112	0.04%	99.71%
85.0	9.868	1.088	2147.2	0.04%	99.76%
86.0	9.685	1.069	2148.269	0.04%	99.81%
87.0	9.525	1.051	2149.32	0.04%	99.86%
88.0	9.422	1.038	2150.358	0.04%	99.90%
89.0	9.349	1.029	2151.387	0.04%	99.95%
90.0	9.334	1.024	2152.411	0.04%	100.00%

Zonal flux distribution table

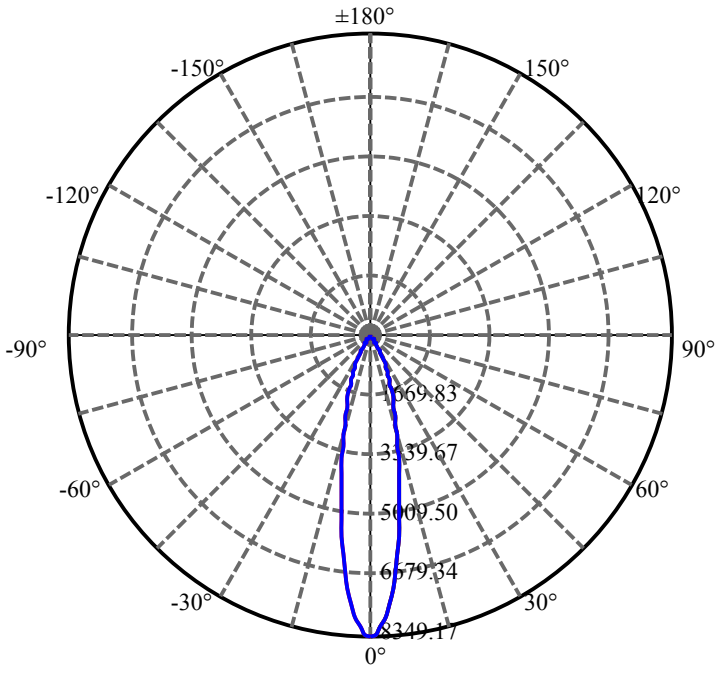
ZONAL LUMEN SUMMARY

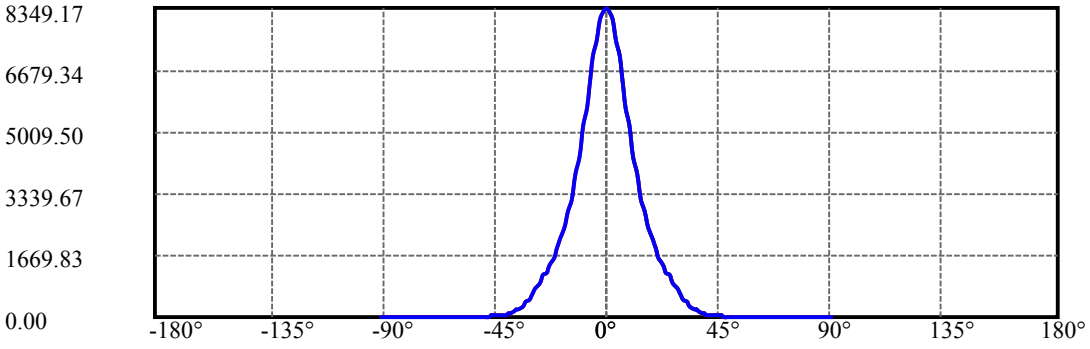
Zone	Lumens	%Lamp	%Fixt
0-30	1911.61	74.24%	88.81%
0-40	2068.06	80.31%	96.08%
0-60	2111.10	81.98%	98.08%
0-90	2151.39	83.55%	99.95%
0-120	2151.39	83.55%	99.95%
0-180	2152.41	83.59%	100.00%
60-90	40.29	1.56%	1.87%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.45	1721.93	66.87%	80.00%

ZONAL LUMEN SUMMARY

0-10	595.36
10-20	808.82
20-30	507.43
30-40	156.45
40-50	26.33
50-60	16.71
60-70	16.34
70-80	14.11
80-90	9.84
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:

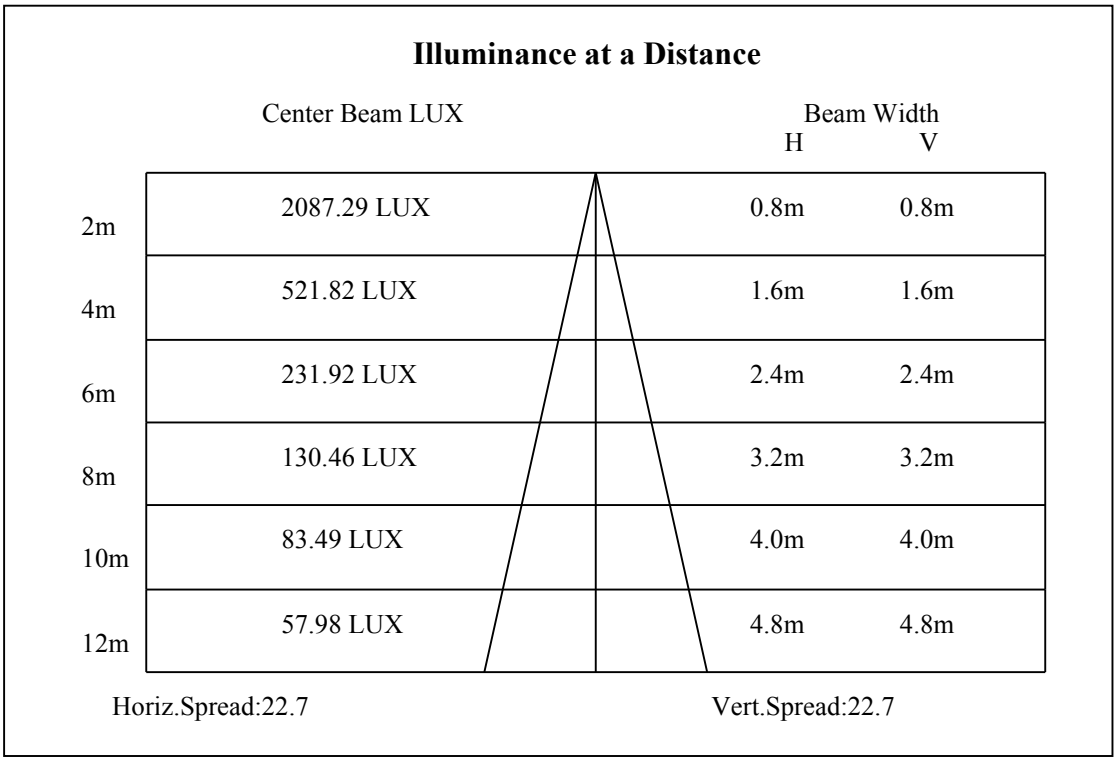
C90/C270:

Field angle(10%Imax):C0/180Left:27.6 Right:27.6
:C90/270Left:27.6 Right:27.6

Beam Angle(50%Imax):C0/180Left:11.3 Right:11.3
:C90/270Left:11.3 Right:11.3

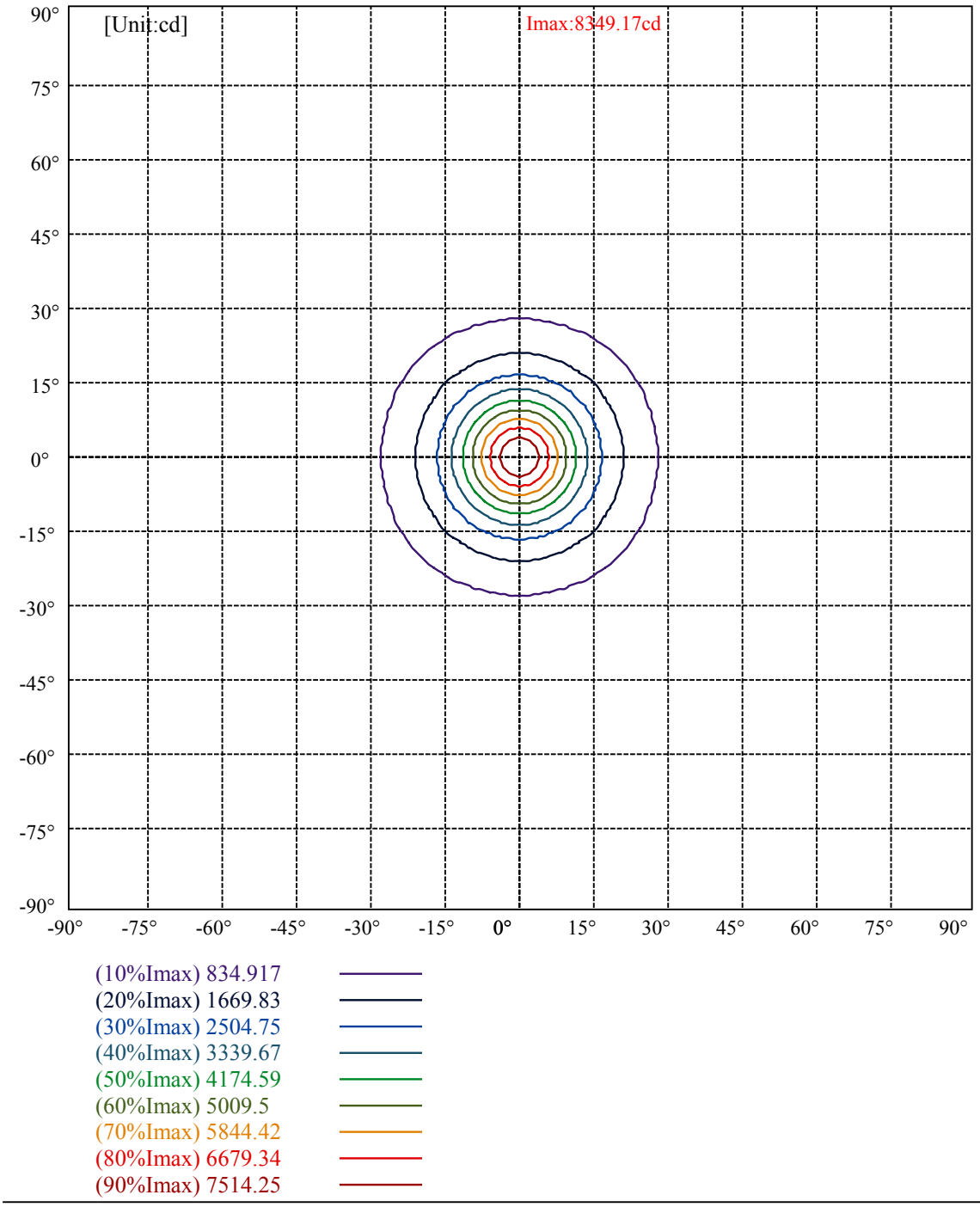
Equipment: GMS1980 Date: 2024/3/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Lux distance Curve



Equipment: GMS1980	Date: 2024/3/01	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

ISO-Intensity(V-H)

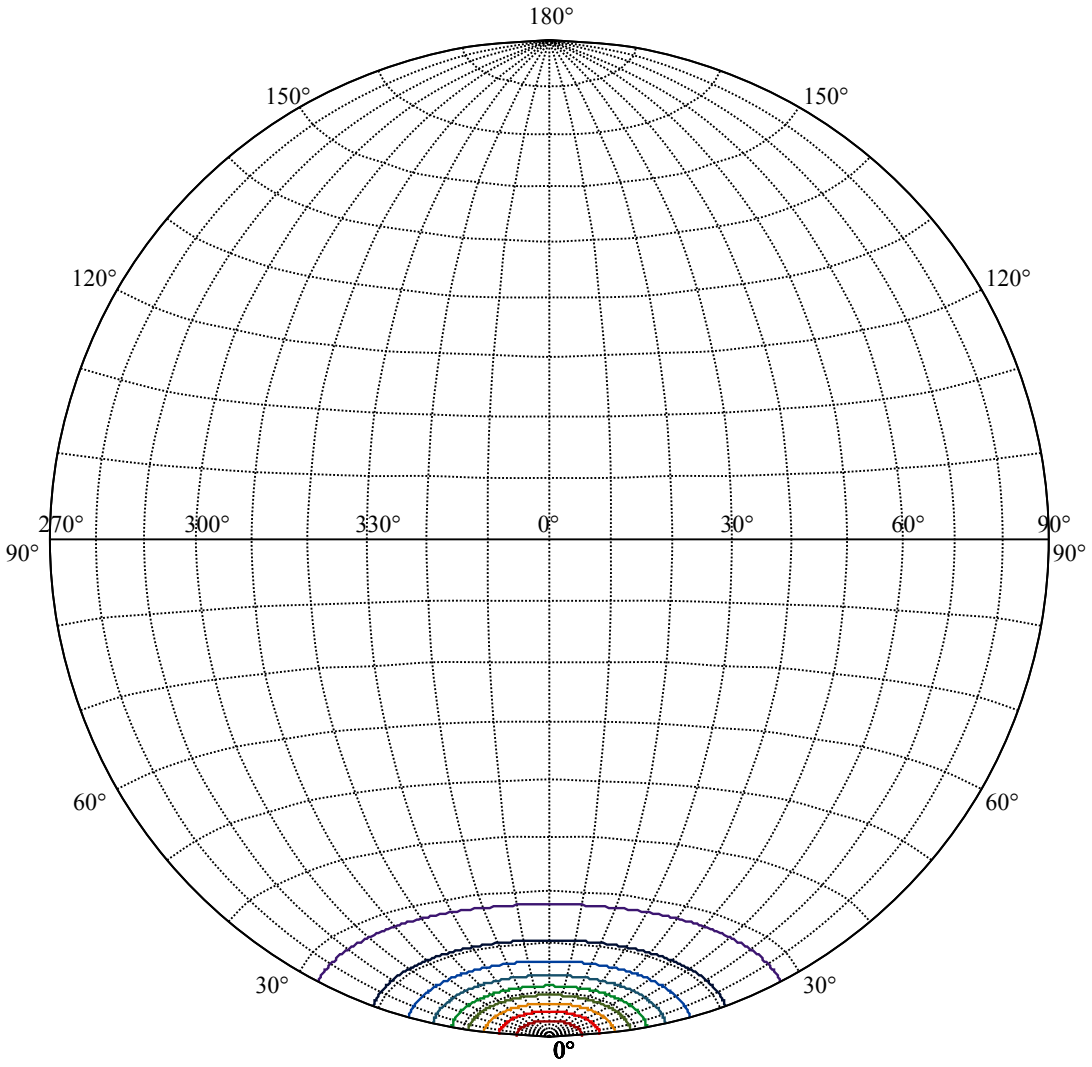


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



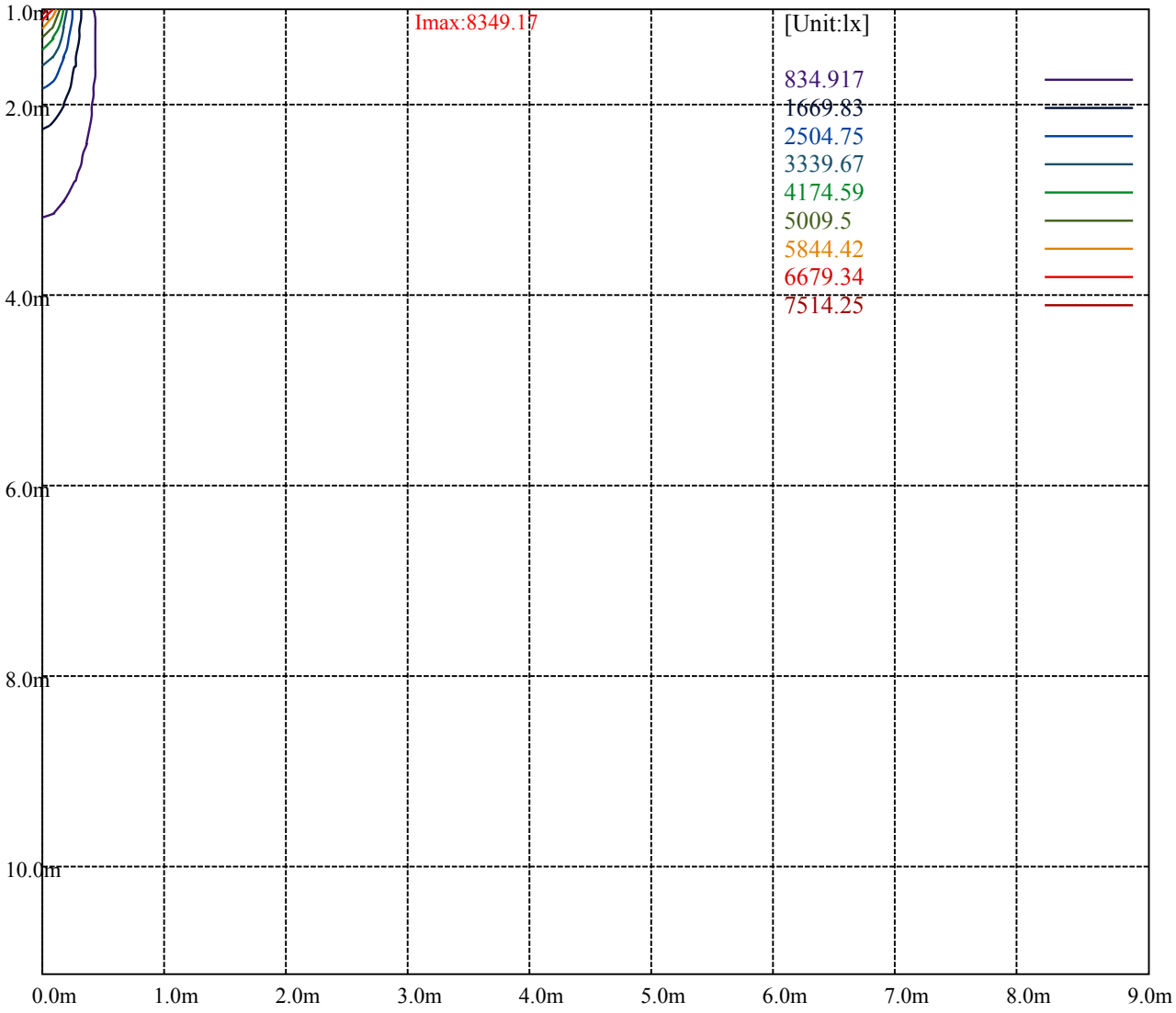
House [Unit:cd] Road

Imax:8349.17

(10%Imax) 834.917
(20%Imax) 1669.83
(30%Imax) 2504.75
(40%Imax) 3339.67
(50%Imax) 4174.59
(60%Imax) 5009.5
(70%Imax) 5844.42
(80%Imax) 6679.34
(90%Imax) 7514.25

Equipment: GMS1980 Date: 2024/3/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/3/01
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

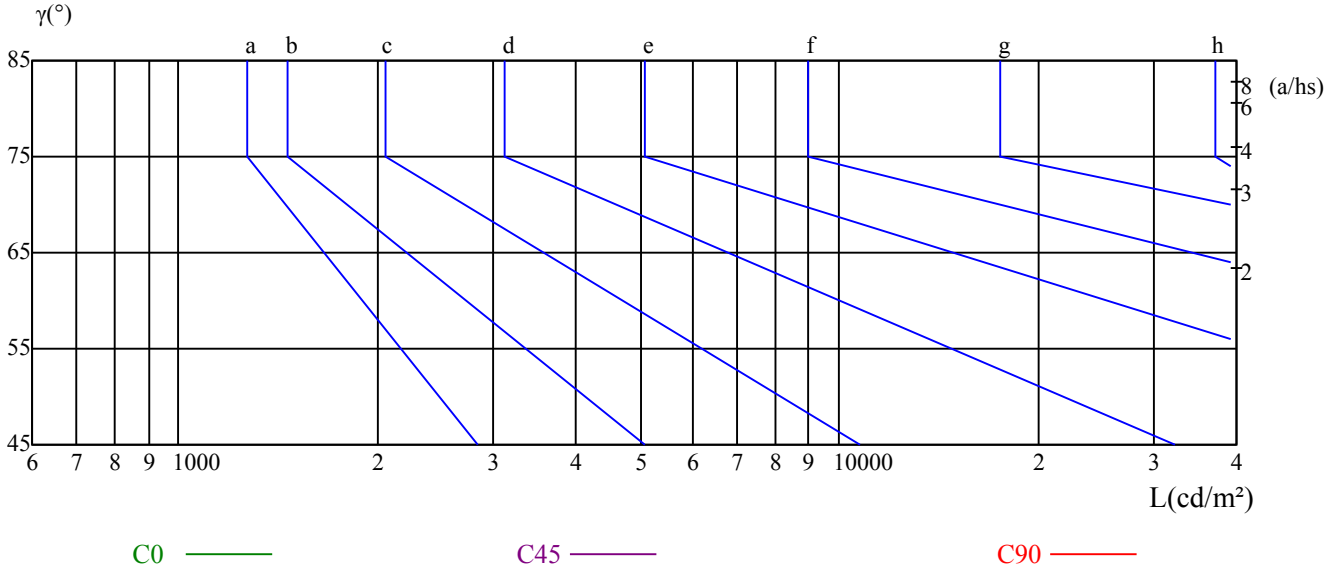
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

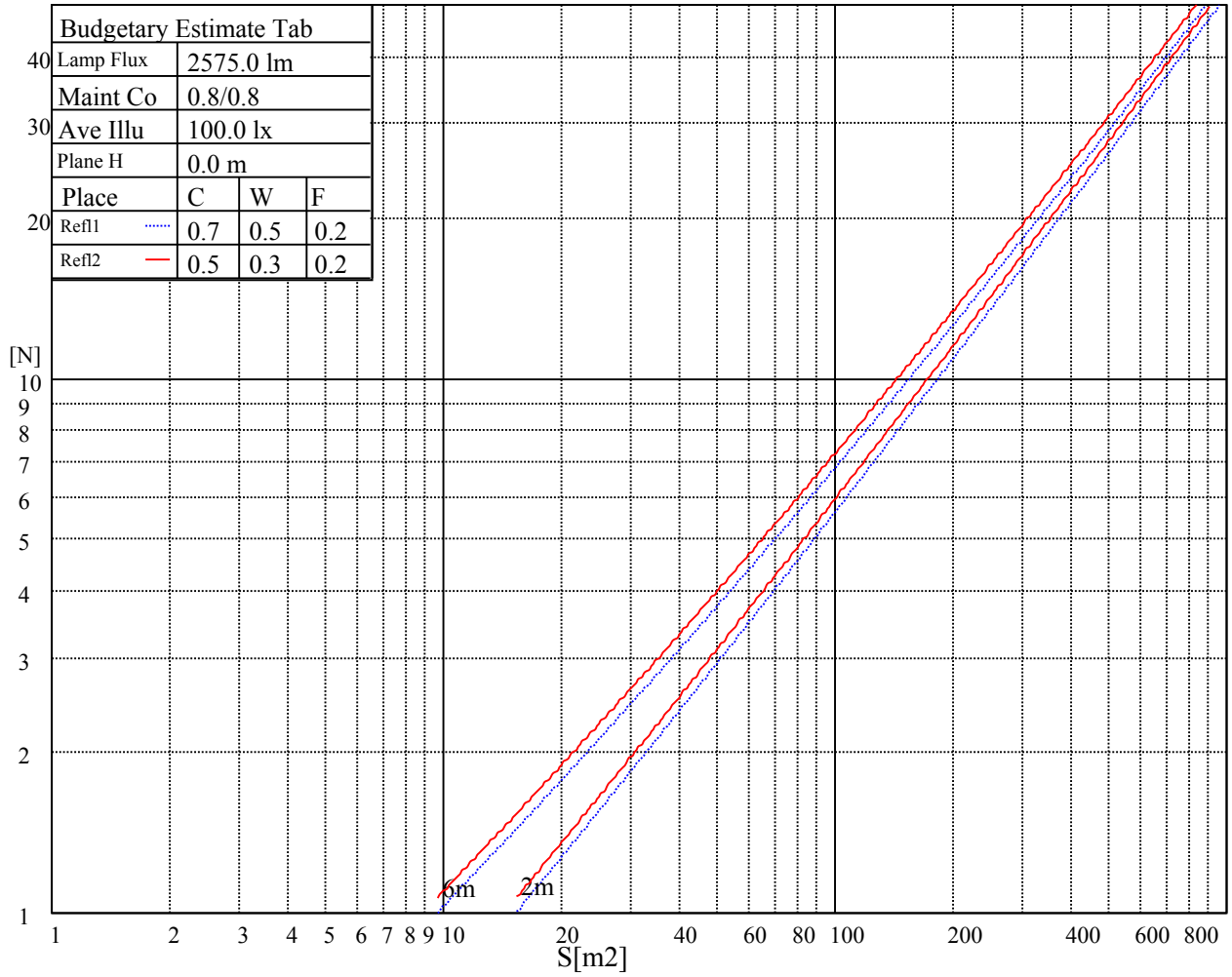
Luminance Limitting Curve



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

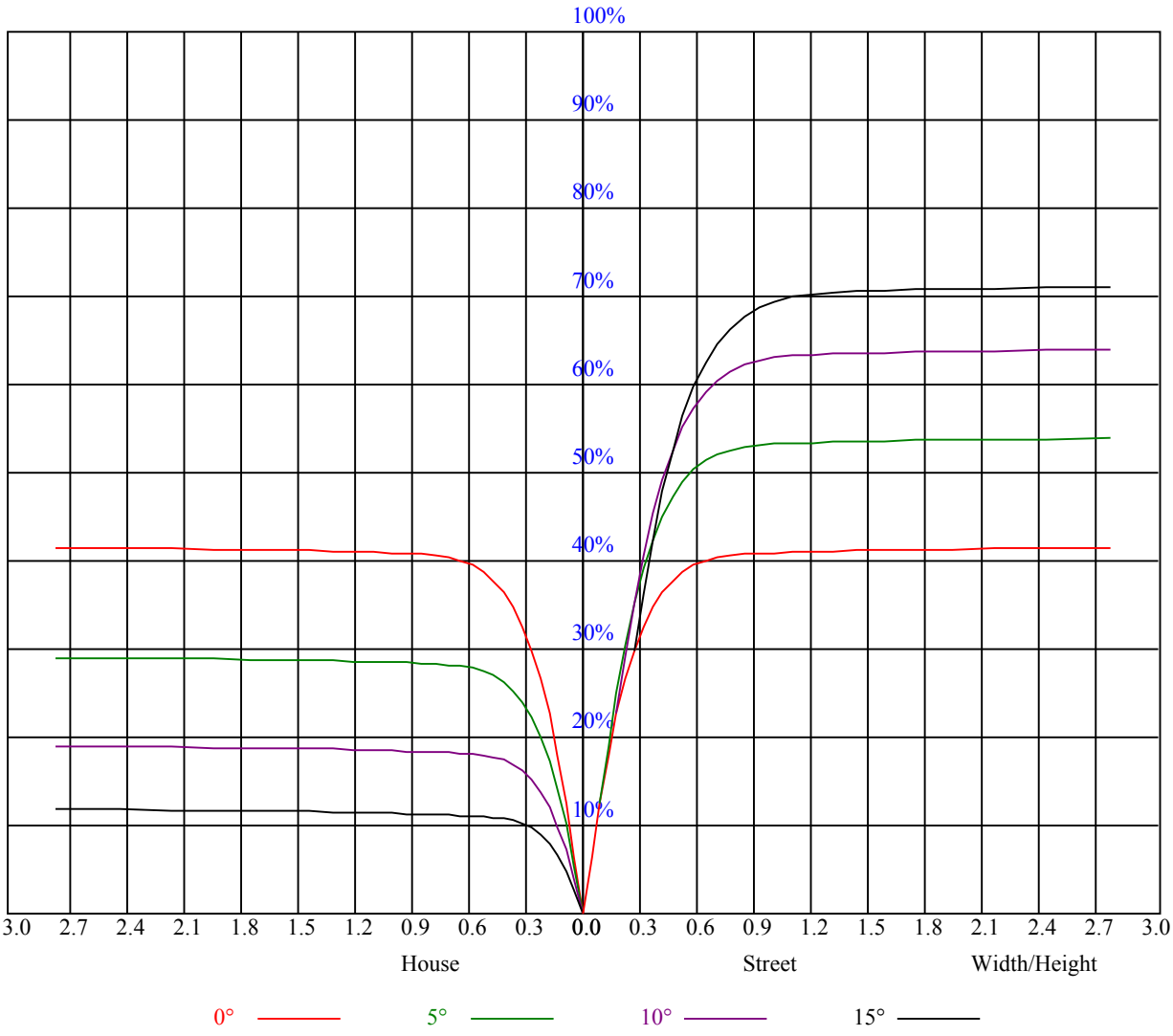


Equipment: GMS1980 Date: 2024/3/01 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

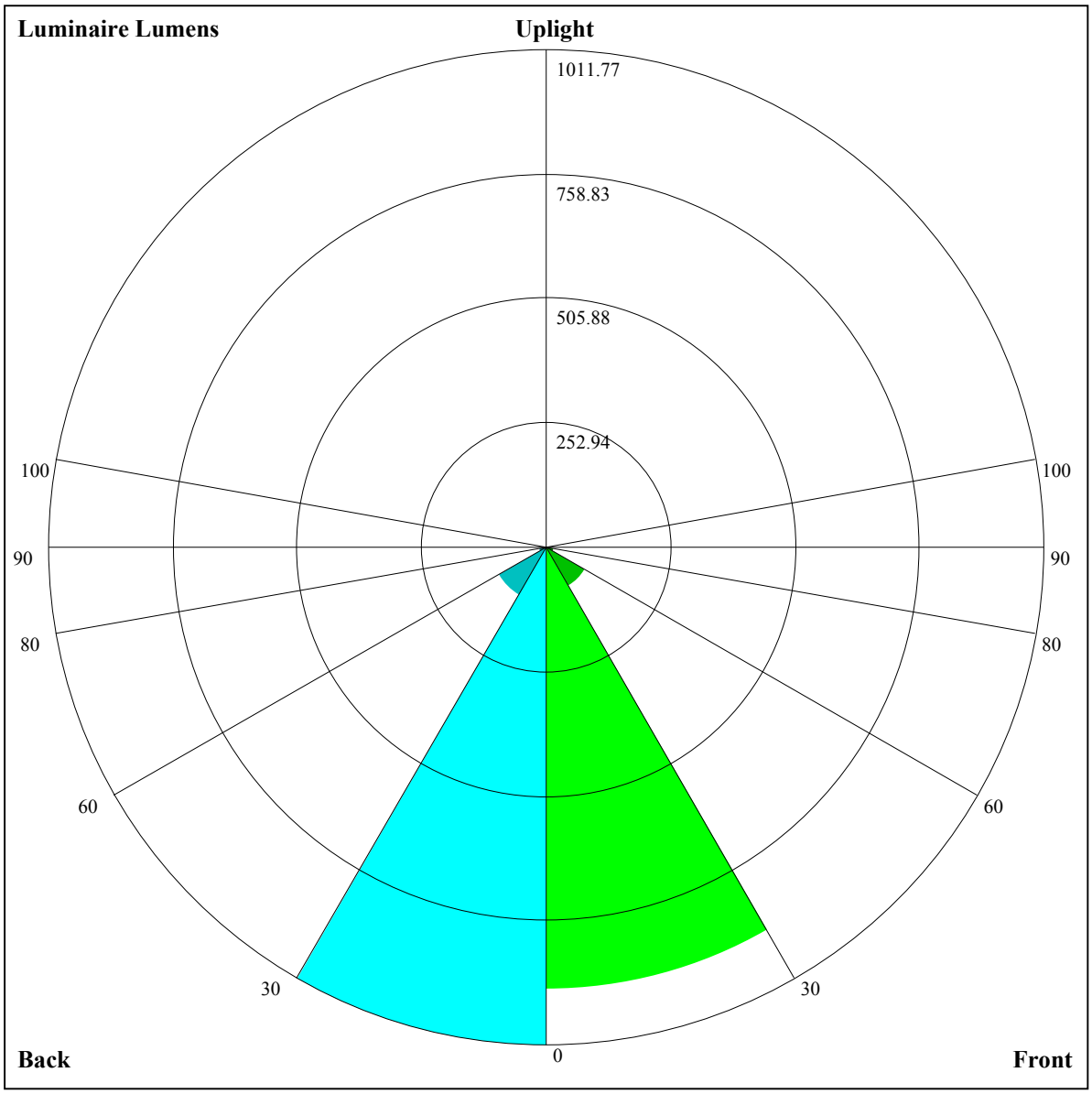
Utilization factor table for indoor luminaire

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	1.00	1.00	1.00	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.84
1	0.93	0.92	0.90	0.92	0.90	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.81	0.79
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.79	0.78	0.77	0.76
3	0.84	0.80	0.78	0.83	0.79	0.77	0.81	0.78	0.76	0.79	0.76	0.75	0.77	0.75	0.73	0.72
4	0.80	0.76	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
5	0.76	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.69	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.67	0.65	0.69	0.67	0.65	0.64
7	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.67	0.64	0.62	0.61
8	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.59
9	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.58	0.63	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	0.61	0.58	0.56	0.61	0.58	0.56	0.55

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/3/01	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=900.63,FM=89.59,FH=15.53,FVH=5.4
BL=1011.77,BM=112.12,BH=15.08,BVH=5.47
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	8134.69	7802.28	7425.98	7006.96	6450.41	6026.12	5593.64	5057.57	4635.04
45.0	8436.08	8239.44	7939.22	7469.87	7049.68	6611.35	6178.86	5646.31	5216.75
90.0	8309.08	8056.27	7621.44	7217.64	6779.30	6238.56	5807.25	5371.25	4939.36
135.0	8516.84	8464.75	8286.84	7928.69	7544.19	7122.25	6679.23	6234.46	5699.56
180.0	8134.69	8420.28	8542.00	8518.01	8353.56	8015.30	7654.22	7246.90	6673.38
225.0	8436.08	8525.62	8434.32	8234.76	7948.00	7578.72	7059.63	6612.52	6033.73
270.0	8309.08	8478.21	8472.36	8346.54	8035.20	7685.82	7300.16	6881.72	6323.41
315.0	8516.84	8426.71	8189.70	7887.72	7418.37	7004.03	6570.38	6022.02	5576.67
360.0	8134.69	7802.28	7425.98	7006.96	6450.41	6026.12	5593.64	5057.57	4635.04

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4227.72	3761.30	3420.11	3105.26	2761.15	2528.82	2317.55	2130.28	1921.35
45.0	4689.47	4288.59	3902.92	3465.76	3146.23	2856.54	2603.72	2333.35	2140.81
90.0	4421.43	4026.99	3660.64	3325.89	2954.27	2686.24	2456.25	2207.53	2030.79
135.0	5276.45	4855.67	4348.28	3960.28	3510.82	3186.02	2888.14	2566.27	2352.08
180.0	6198.76	5657.43	5224.36	4798.90	4280.39	3894.73	3532.48	3210.02	2833.13
225.0	5586.62	5147.11	4613.39	4210.17	3831.53	3400.80	3087.12	2802.12	2554.57
270.0	5893.27	5473.67	5041.19	4616.31	4105.41	3734.38	3309.51	3003.43	2721.94
315.0	5131.31	4593.49	4190.85	3815.14	3470.44	3156.18	2806.21	2561.00	2344.47
360.0	4227.72	3761.30	3420.11	3105.26	2761.15	2528.82	2317.55	2130.28	1921.35

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1769.78	1629.32	1471.31	1160.85	1160.85	1106.60	998.69	892.12	758.98
45.0	1972.85	1813.09	1631.67	1502.33	1387.63	1247.76	1140.08	1004.89	897.21
90.0	1828.89	1680.82	1545.64	1423.91	1166.88	1166.88	1061.42	956.73	825.34
135.0	2163.64	1988.65	1789.68	1644.54	1516.96	1398.75	1257.71	1148.86	1040.59
180.0	2572.12	2363.78	2158.37	1940.08	1779.14	1629.32	1468.97	1354.27	1245.42
225.0	2284.19	2091.65	1918.43	1761.59	1587.77	1464.88	1163.54	1163.54	1112.45
270.0	2429.91	2232.11	2037.23	1828.89	1680.24	1545.64	1425.08	1286.38	1178.70
315.0	2108.62	1934.81	1777.39	1601.23	1476.00	1281.70	1142.13	1116.49	1011.85
360.0	1769.78	1629.32	1471.31	1160.85	1160.85	1106.60	998.69	892.12	758.98

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	657.15	565.27	482.58	387.59	318.60	259.08	208.93	158.36	126.35
45.0	790.70	686.53	568.90	486.97	411.47	326.03	295.60	295.60	171.12
90.0	720.94	624.61	535.25	436.58	363.66	297.88	228.76	183.70	146.72
135.0	908.33	802.40	699.40	581.19	496.91	417.32	327.20	295.60	295.60
180.0	1114.33	1010.74	908.33	778.41	675.99	580.02	474.09	396.84	327.20
225.0	1010.04	882.75	779.81	679.74	562.05	477.13	398.42	327.78	252.41
270.0	1072.19	966.85	836.35	733.93	633.27	519.74	438.98	347.10	299.11
315.0	882.58	778.47	676.58	579.96	472.10	393.80	324.16	264.76	203.42
360.0	657.15	565.27	482.58	387.59	318.60	259.08	208.93	158.36	126.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	101.01	81.00	62.62	52.03	42.08	36.40	32.36	28.68	26.34
45.0	137.24	103.88	83.34	64.78	53.84	45.41	38.04	33.77	30.72
90.0	111.19	89.25	68.82	57.24	47.99	40.91	35.64	31.25	28.68
135.0	166.85	124.42	98.61	78.95	64.26	51.09	43.42	37.75	32.42
180.0	295.60	295.60	158.24	125.76	99.96	79.77	61.33	51.27	42.19
225.0	202.90	162.52	129.80	98.03	79.06	64.37	50.97	43.19	35.99
270.0	299.11	183.12	140.10	113.07	91.24	74.21	58.29	48.81	41.32
315.0	164.10	132.14	101.13	81.87	63.26	52.09	43.42	37.10	31.78
360.0	101.01	81.00	62.62	52.03	42.08	36.40	32.36	28.68	26.34

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	24.46	22.53	21.36	20.37	19.61	19.08	18.61	18.38	18.20
45.0	27.74	25.75	23.99	22.65	21.48	20.31	19.72	19.37	18.96
90.0	26.45	24.58	22.77	21.54	20.31	19.55	19.02	18.61	18.38
135.0	29.50	26.51	24.58	23.06	21.59	20.19	19.37	18.73	18.26
180.0	36.99	33.07	29.32	27.04	25.11	23.47	21.71	20.60	19.72
225.0	32.13	29.14	26.34	24.58	22.94	21.71	20.60	19.49	18.90
270.0	35.76	30.84	28.15	25.46	23.70	22.30	21.13	19.90	19.14
315.0	28.79	26.39	24.40	22.47	21.24	20.19	19.20	18.67	18.26
360.0	24.46	22.53	21.36	20.37	19.61	19.08	18.61	18.38	18.20

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	18.08	18.14	18.14	18.43	18.67	18.79	18.49	18.08	17.56
45.0	18.73	18.61	18.55	18.61	18.79	19.02	19.20	18.96	18.43
90.0	18.20	18.14	18.14	18.32	18.49	18.79	18.79	18.38	17.97
135.0	17.91	17.67	17.56	17.62	17.62	17.85	18.14	18.32	18.02
180.0	18.96	18.32	18.02	17.73	17.62	17.56	17.62	17.79	18.02
225.0	18.49	18.20	18.02	17.91	17.91	18.02	18.20	18.38	18.55
270.0	18.61	18.32	18.08	17.97	17.97	17.91	18.02	18.26	18.49
315.0	17.97	17.79	17.79	17.79	17.85	18.02	18.38	18.43	18.14
360.0	18.08	18.14	18.14	18.43	18.67	18.79	18.49	18.08	17.56

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.50	15.86	15.16	14.51	14.46	14.86	15.45	15.86	16.15
45.0	17.91	16.97	16.33	15.57	14.86	14.69	14.98	15.39	15.98
90.0	17.15	16.27	15.80	15.45	15.39	16.15	16.91	16.97	16.91
135.0	17.67	17.15	16.33	15.39	14.75	13.99	13.40	12.87	12.64
180.0	18.20	18.14	17.73	17.21	16.21	15.51	14.81	14.05	13.34
225.0	18.38	17.79	17.21	16.44	15.68	14.81	14.10	13.64	13.34
270.0	18.43	18.02	17.44	16.68	15.68	15.04	14.34	13.75	13.81
315.0	17.79	17.03	16.21	15.45	14.81	13.81	13.40	12.93	12.64
360.0	16.50	15.86	15.16	14.51	14.46	14.86	15.45	15.86	16.15

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.98	15.74	15.63	15.33	14.16	13.34	12.82	11.53	10.53
45.0	16.80	17.03	16.97	16.68	16.21	15.68	14.40	13.23	11.82
90.0	16.97	16.39	16.39	15.80	15.10	14.57	14.10	12.93	10.83
135.0	12.35	12.17	12.00	11.82	11.65	11.47	11.24	11.00	10.83
180.0	12.99	12.76	12.52	12.23	12.06	11.88	11.65	11.41	11.24
225.0	13.28	13.23	12.99	12.64	12.35	12.00	11.65	11.35	11.12
270.0	13.87	13.64	13.58	13.11	12.76	12.35	11.94	11.53	11.18
315.0	12.52	12.29	12.06	11.88	11.70	11.47	11.24	11.00	10.83
360.0	15.98	15.74	15.63	15.33	14.16	13.34	12.82	11.53	10.53

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.36	10.12	10.01	9.89	9.66	9.48	9.31	9.31	9.31
45.0	10.89	10.42	10.12	10.01	9.83	9.54	9.36	9.31	9.25
90.0	10.48	10.18	9.95	9.83	9.60	9.48	9.42	9.25	9.31
135.0	10.65	10.42	10.24	10.07	9.89	9.60	9.48	9.42	9.31
180.0	11.12	10.94	10.77	10.36	10.12	10.01	9.83	9.66	9.54
225.0	10.94	10.71	10.42	10.12	10.01	9.77	9.66	9.48	9.36
270.0	10.89	10.71	10.42	10.24	9.95	9.89	9.66	9.60	9.42
315.0	10.59	10.36	10.24	10.07	9.89	9.71	9.48	9.36	9.31
360.0	10.36	10.12	10.01	9.89	9.66	9.48	9.31	9.31	9.31

Intensity data(cd)

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