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NT

Client:
LumCAT: 2-2679-L
Luminaire: 92.70.429.00
Report No: 2024410-B014
Ballast type: AC

Test No: 2024410-C014	Voltage(V): 34.790
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2713.0	Power (W): 18.438
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2316.27, Efficiency(%): 85.38% , Luminous Efficacy(lm/W): 125.62
Central intensity(cd): 7592.037, Maximum intensity(cd): 7592.037
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.4
[C90/270]Total=24.4
Field angle(10%Imax): [C0/180]Total=61.0
[C90/270]Total=61.0
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.47 C90_270=0.47
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 85.38%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.091%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7592.036	0.000	0	0.00%	0.00%
1.0	7535.855	7.238	7.238	0.27%	0.31%
2.0	7382.818	21.413	28.651	0.79%	1.24%
3.0	7130.147	34.710	63.361	1.28%	2.74%
4.0	6820.929	46.699	110.06	1.72%	4.75%
5.0	6469.721	57.176	167.236	2.11%	7.22%
6.0	6083.911	65.973	233.208	2.43%	10.07%
7.0	5695.834	73.117	306.325	2.70%	13.22%
8.0	5320.412	78.841	385.166	2.91%	16.63%
9.0	4907.316	82.890	468.056	3.06%	20.21%
10.0	4539.429	85.490	553.546	3.15%	23.90%
11.0	4190.562	87.231	640.777	3.22%	27.66%
12.0	3854.058	87.939	728.716	3.24%	31.46%
13.0	3520.041	87.512	816.228	3.23%	35.24%
14.0	3199.264	86.007	902.234	3.17%	38.95%
15.0	2947.105	84.380	986.614	3.11%	42.59%
16.0	2708.480	82.870	1069.485	3.05%	46.17%
17.0	2468.318	80.617	1150.101	2.97%	49.65%
18.0	2279.437	78.280	1228.381	2.89%	53.03%
19.0	2110.087	76.369	1304.75	2.81%	56.33%
20.0	1944.395	74.208	1378.958	2.74%	59.53%
21.0	1794.212	71.789	1450.747	2.65%	62.63%
22.0	1665.755	69.530	1520.277	2.56%	65.63%
23.0	1550.612	67.488	1587.765	2.49%	68.55%
24.0	1425.359	65.065	1652.83	2.40%	71.36%
25.0	1294.210	61.837	1714.667	2.28%	74.03%
26.0	1202.030	58.924	1773.591	2.17%	76.57%
27.0	1124.993	56.931	1830.523	2.10%	79.03%
28.0	1022.542	54.371	1884.894	2.00%	81.38%
29.0	916.682	50.736	1935.629	1.87%	83.57%
30.0	815.526	46.769	1982.398	1.72%	85.59%
31.0	703.587	42.275	2024.673	1.56%	87.41%
32.0	606.688	37.538	2062.211	1.38%	89.03%
33.0	511.801	32.951	2095.162	1.21%	90.45%
34.0	423.615	28.308	2123.47	1.04%	91.68%
35.0	347.529	23.949	2147.419	0.88%	92.71%
36.0	286.299	20.181	2167.601	0.74%	93.58%
37.0	248.377	17.438	2185.039	0.64%	94.33%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	179.949	14.297	2199.336	0.53%	94.95%
39.0	126.884	10.473	2209.809	0.39%	95.40%
40.0	96.035	7.775	2217.583	0.29%	95.74%
41.0	76.101	6.130	2223.713	0.23%	96.00%
42.0	60.556	4.965	2228.678	0.18%	96.22%
43.0	49.832	4.089	2232.767	0.15%	96.39%
44.0	42.487	3.484	2236.252	0.13%	96.55%
45.0	37.535	3.075	2239.327	0.11%	96.68%
46.0	33.643	2.784	2242.11	0.10%	96.80%
47.0	30.673	2.558	2244.669	0.09%	96.91%
48.0	28.530	2.393	2247.062	0.09%	97.01%
49.0	26.818	2.273	2249.335	0.08%	97.11%
50.0	25.340	2.175	2251.509	0.08%	97.20%
51.0	24.162	2.094	2253.604	0.08%	97.29%
52.0	23.329	2.038	2255.642	0.08%	97.38%
53.0	22.714	2.003	2257.644	0.07%	97.47%
54.0	22.348	1.986	2259.631	0.07%	97.55%
55.0	22.195	1.988	2261.619	0.07%	97.64%
56.0	22.231	2.007	2263.626	0.07%	97.73%
57.0	22.385	2.040	2265.666	0.08%	97.82%
58.0	22.634	2.082	2267.748	0.08%	97.91%
59.0	22.882	2.128	2269.876	0.08%	98.00%
60.0	22.955	2.166	2272.042	0.08%	98.09%
61.0	22.677	2.178	2274.219	0.08%	98.18%
62.0	22.092	2.157	2276.377	0.08%	98.28%
63.0	21.178	2.104	2278.481	0.08%	98.37%
64.0	19.920	2.017	2280.498	0.07%	98.46%
65.0	18.669	1.910	2282.407	0.07%	98.54%
66.0	17.469	1.803	2284.21	0.07%	98.62%
67.0	16.386	1.702	2285.913	0.06%	98.69%
68.0	15.567	1.619	2287.531	0.06%	98.76%
69.0	14.967	1.558	2289.089	0.06%	98.83%
70.0	14.477	1.512	2290.601	0.06%	98.89%
71.0	14.089	1.476	2292.078	0.05%	98.96%
72.0	13.753	1.448	2293.525	0.05%	99.02%
73.0	13.541	1.427	2294.953	0.05%	99.08%
74.0	13.533	1.423	2296.376	0.05%	99.14%
75.0	13.533	1.430	2297.806	0.05%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.358	1.427	2299.234	0.05%	99.26%
77.0	12.948	1.403	2300.636	0.05%	99.33%
78.0	12.546	1.365	2302.001	0.05%	99.38%
79.0	12.129	1.326	2303.327	0.05%	99.44%
80.0	11.858	1.293	2304.62	0.05%	99.50%
81.0	11.566	1.267	2305.886	0.05%	99.55%
82.0	11.302	1.240	2307.127	0.05%	99.61%
83.0	11.090	1.217	2308.344	0.04%	99.66%
84.0	10.871	1.196	2309.54	0.04%	99.71%
85.0	10.622	1.173	2310.713	0.04%	99.76%
86.0	10.388	1.148	2311.862	0.04%	99.81%
87.0	10.205	1.127	2312.989	0.04%	99.86%
88.0	10.015	1.108	2314.096	0.04%	99.91%
89.0	9.890	1.091	2315.187	0.04%	99.95%
90.0	9.839	1.082	2316.269	0.04%	100.00%

Zonal flux distribution table

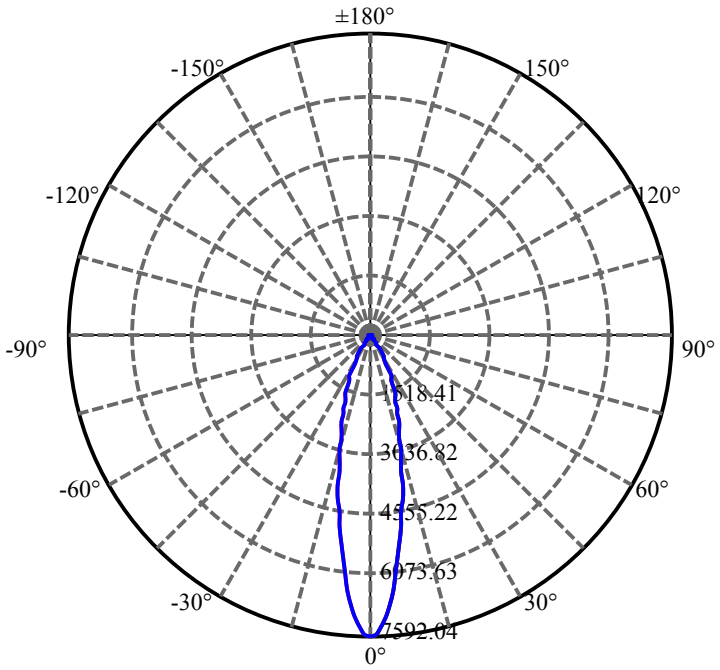
ZONAL LUMEN SUMMARY

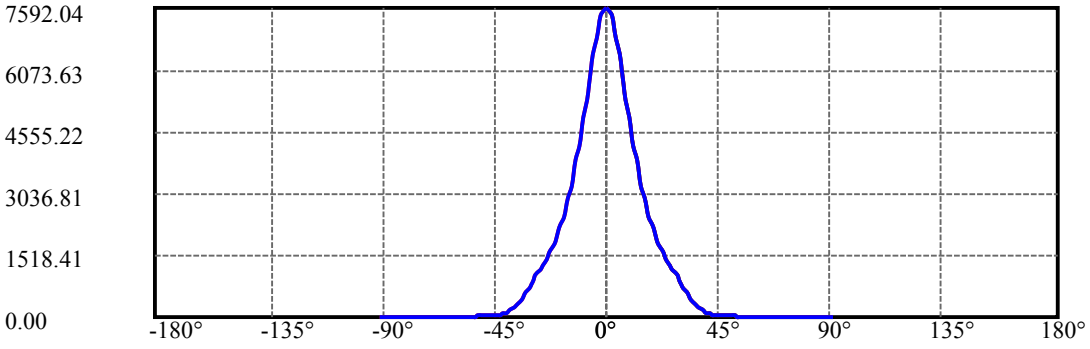
Zone	Lumens	%Lamp	%Fixt
0-30	1982.40	73.07%	85.59%
0-40	2217.58	81.74%	95.74%
0-60	2272.04	83.75%	98.09%
0-90	2315.19	85.34%	99.95%
0-120	2315.19	85.34%	99.95%
0-180	2316.27	85.38%	100.00%
60-90	43.15	1.59%	1.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.41	1853.02	68.30%	80.00%

ZONAL LUMEN SUMMARY

0-10	553.55
10-20	825.41
20-30	603.44
30-40	235.18
40-50	33.93
50-60	20.53
60-70	18.56
70-80	14.02
80-90	10.57
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):

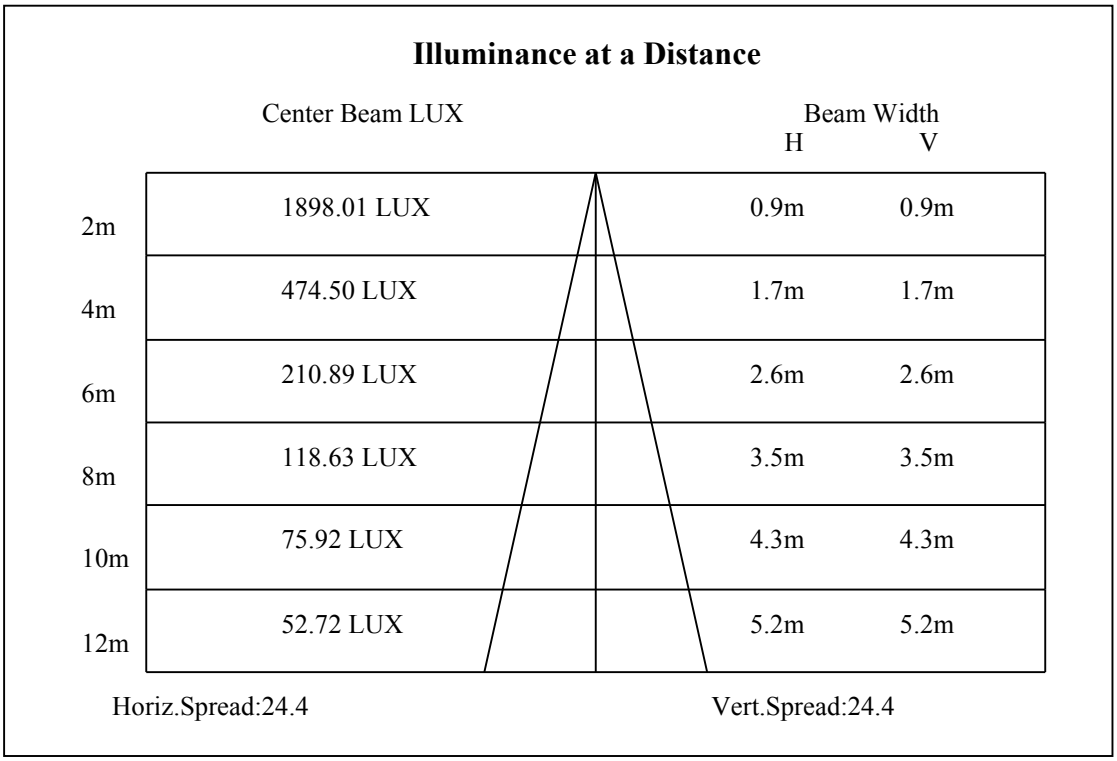
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:30.5 Right:30.5
:C90/270Left:30.5 Right:30.5

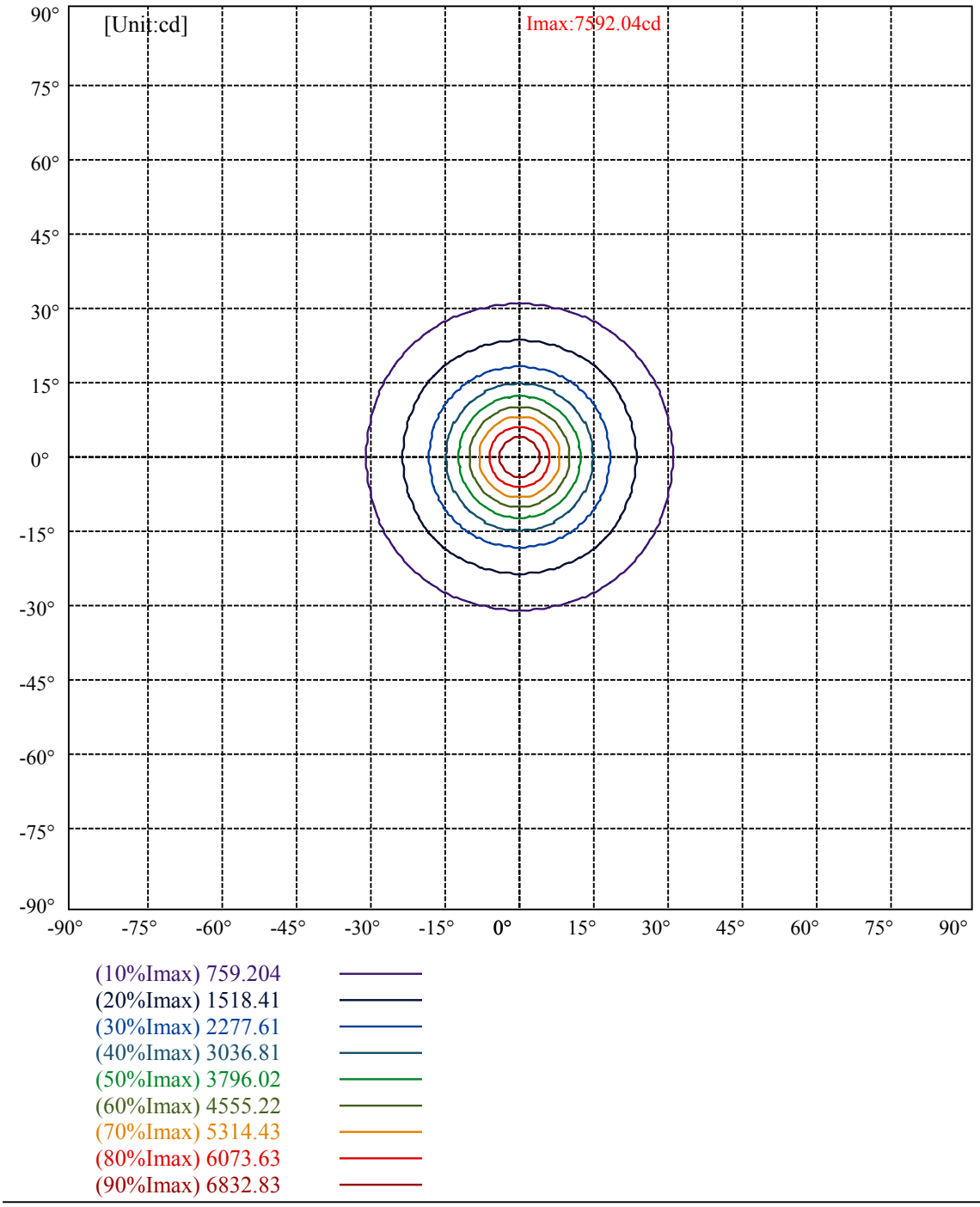
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

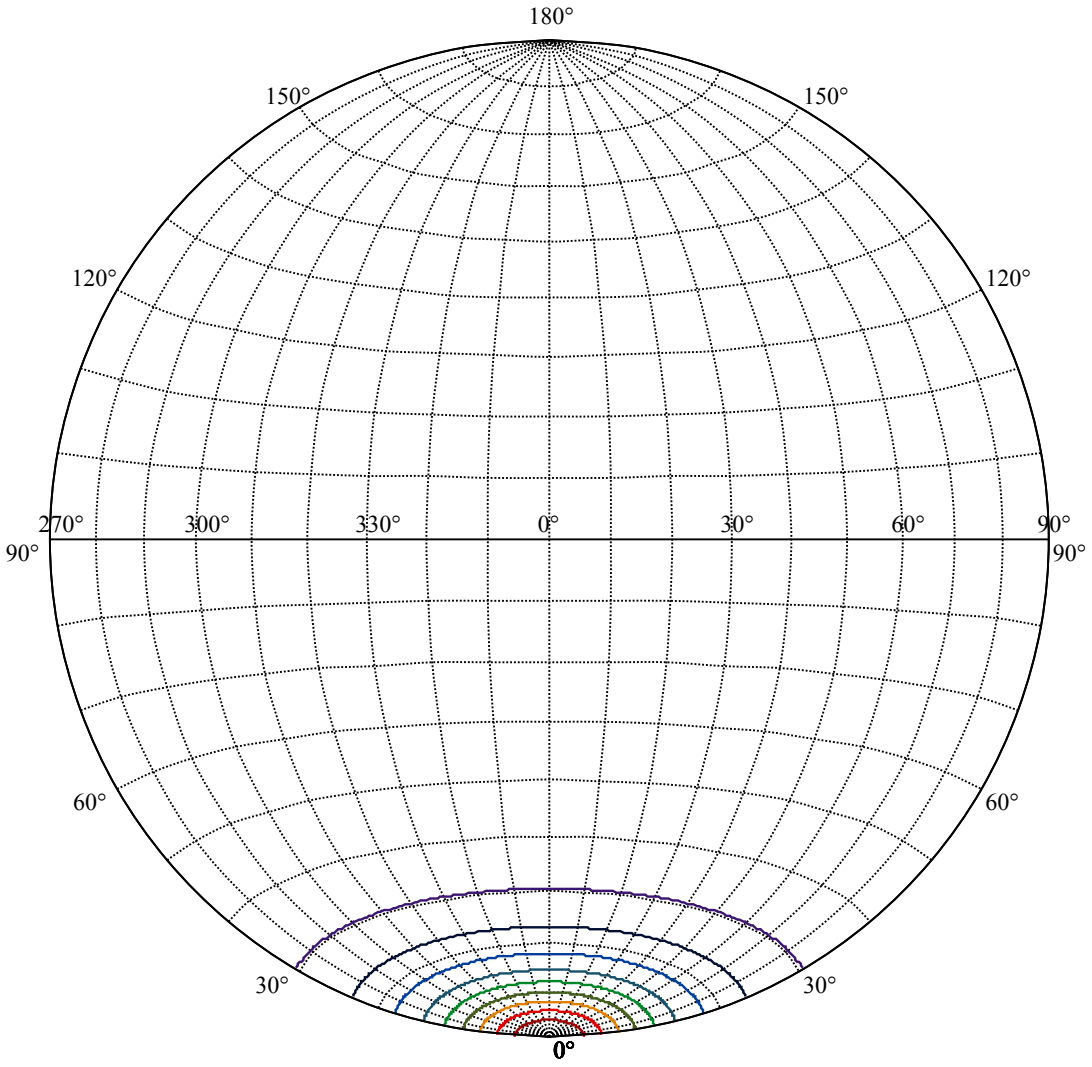


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



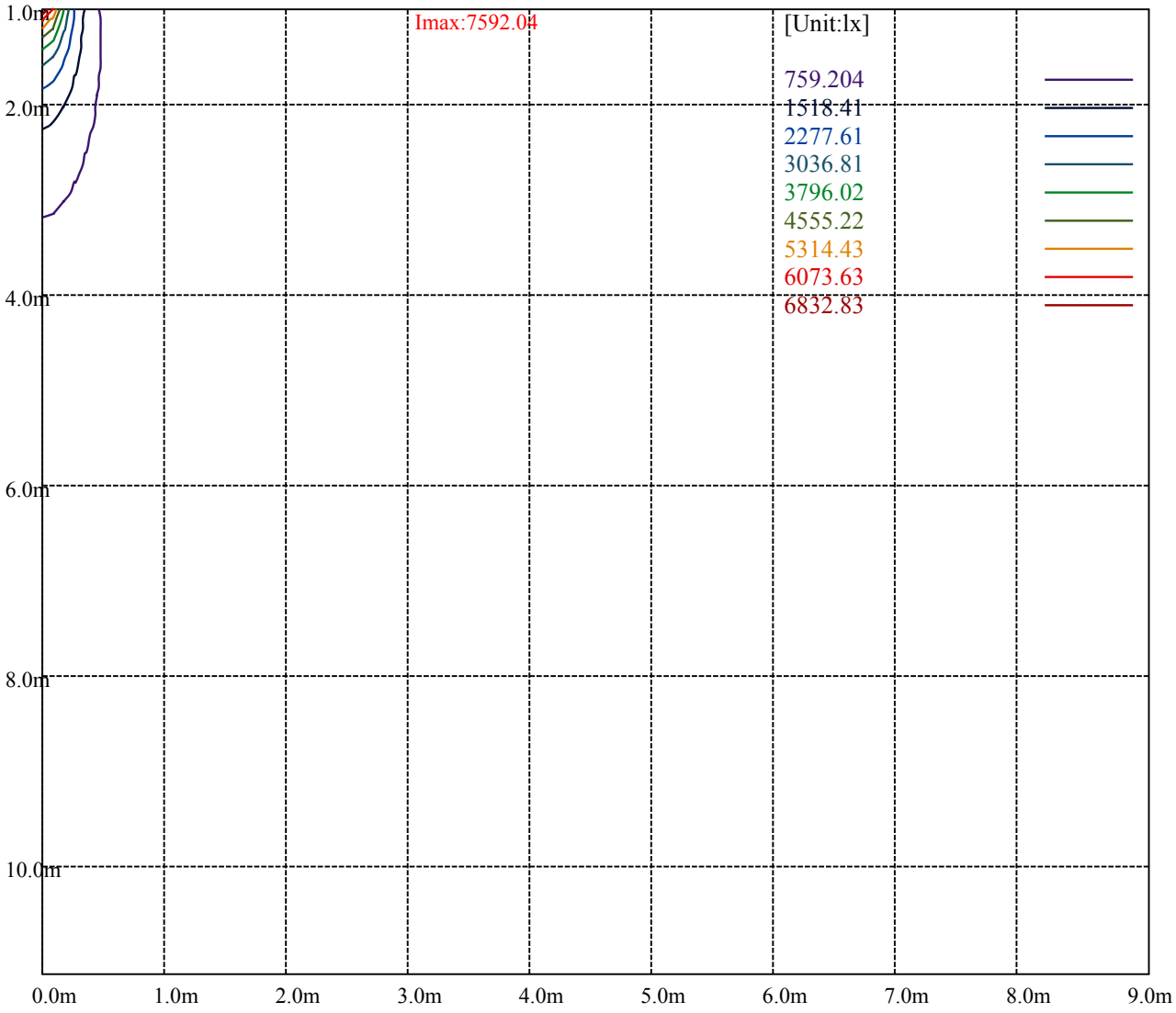
House [Unit:cd] Road

Imax:7592.04

(10%Imax) 759.204
(20%Imax) 1518.41
(30%Imax) 2277.61
(40%Imax) 3036.81
(50%Imax) 3796.02
(60%Imax) 4555.22
(70%Imax) 5314.43
(80%Imax) 6073.63
(90%Imax) 6832.83

Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

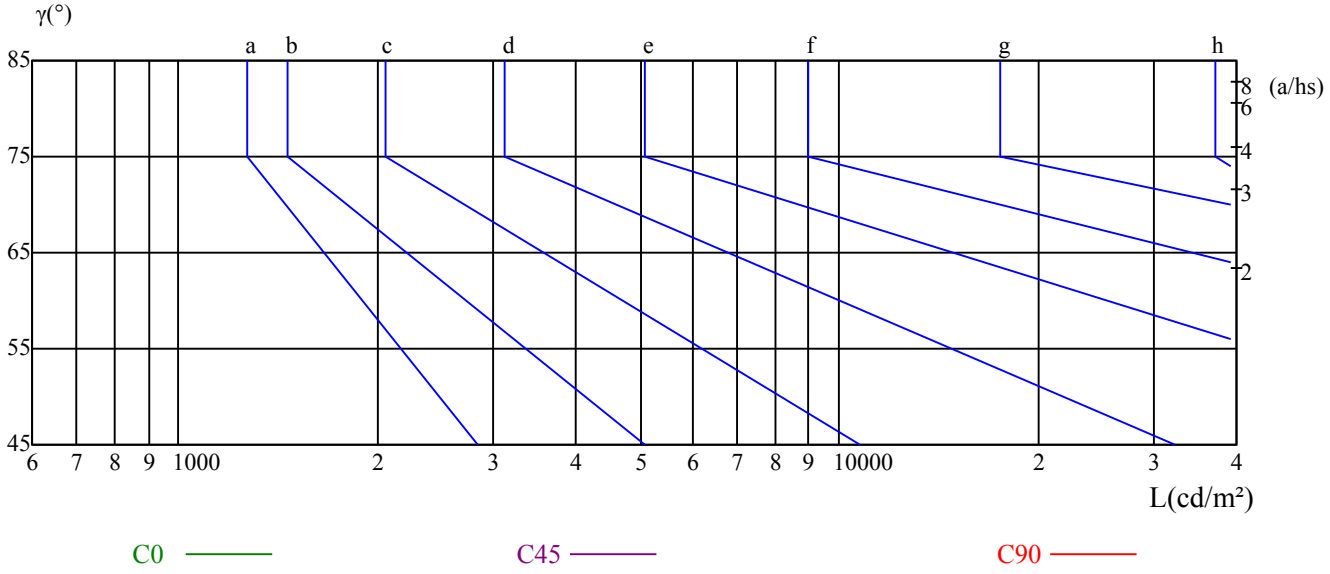
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

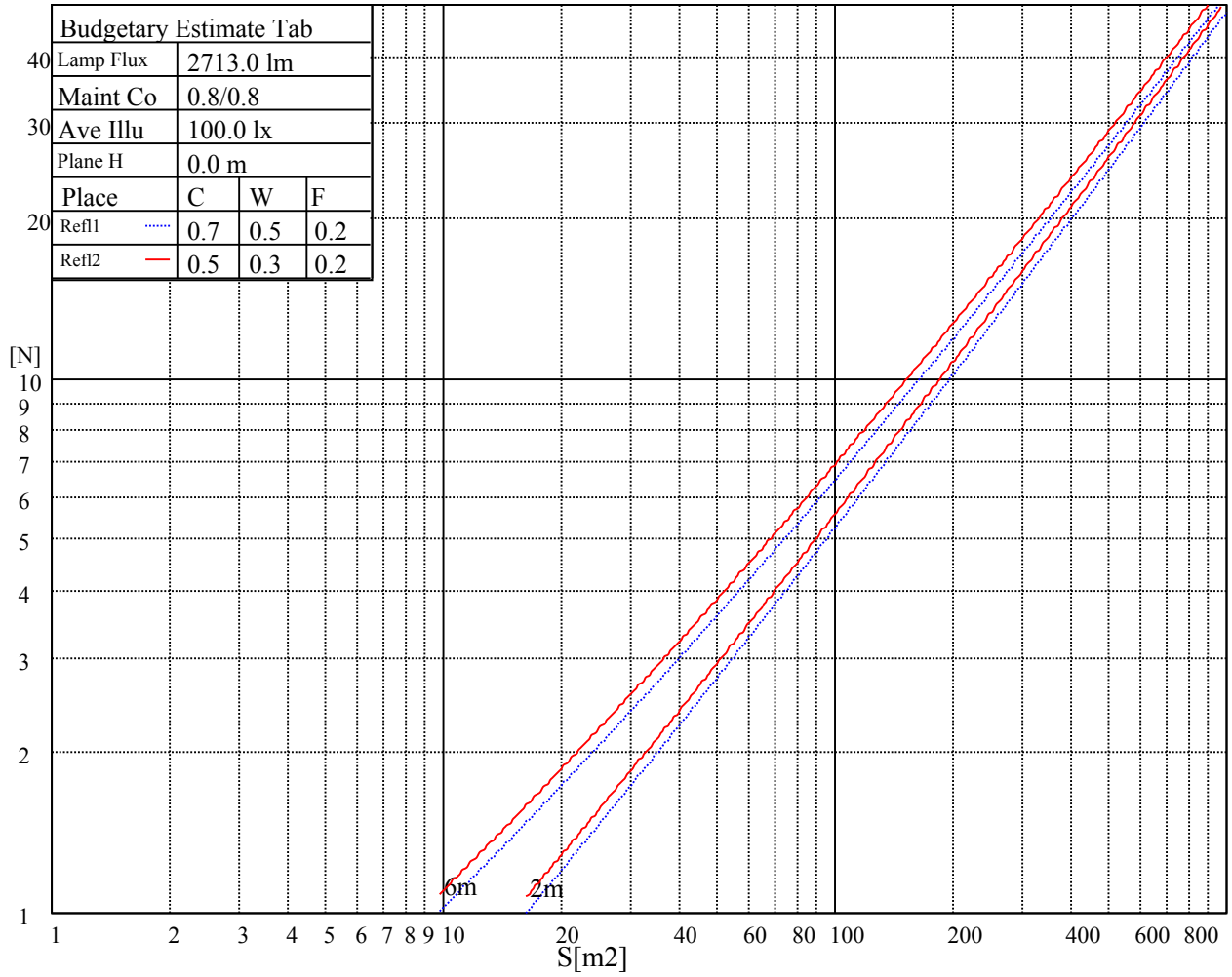
Luminance Limitting Curve



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

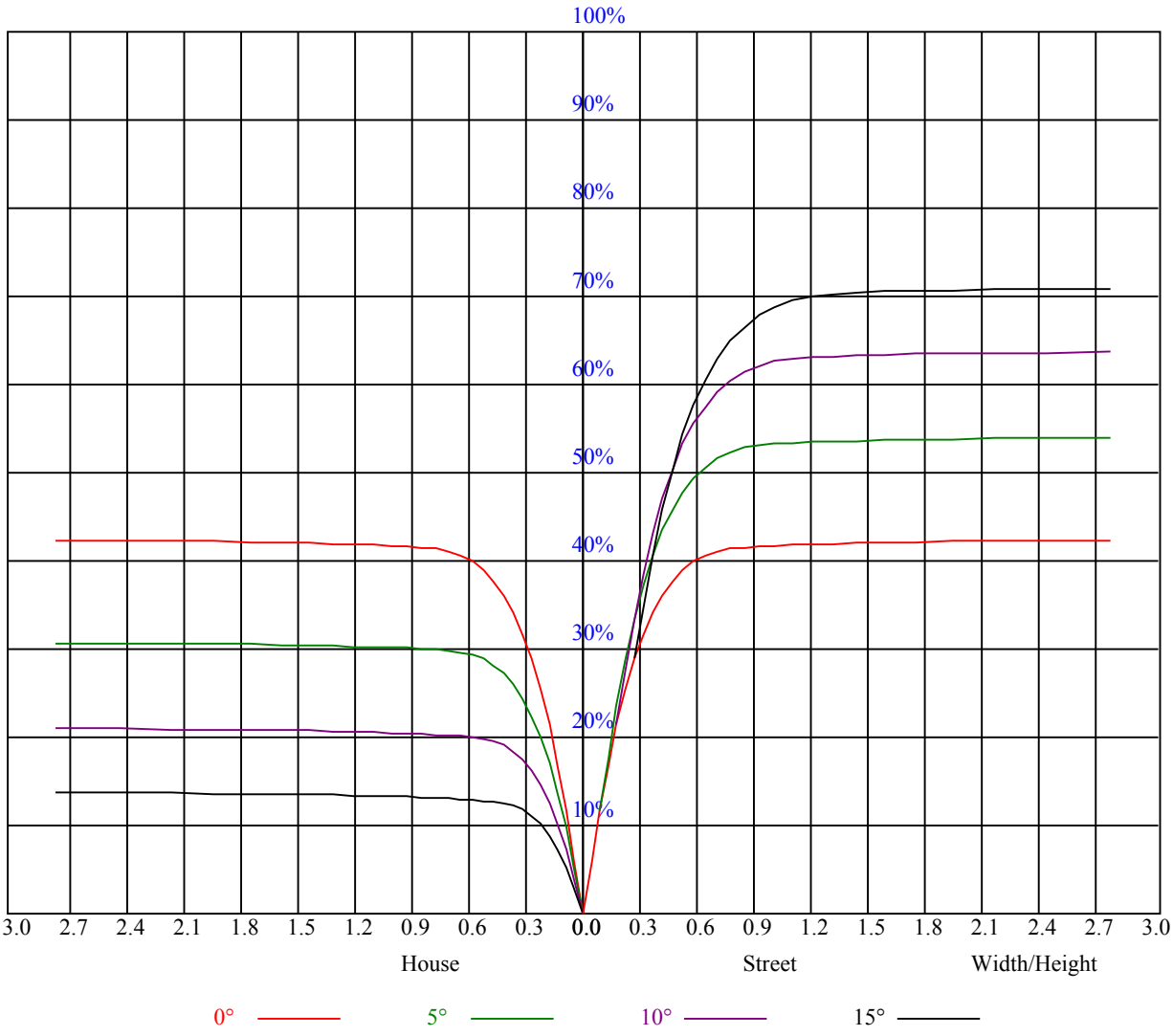


Equipment: GMS1980 Date: 2024/4/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

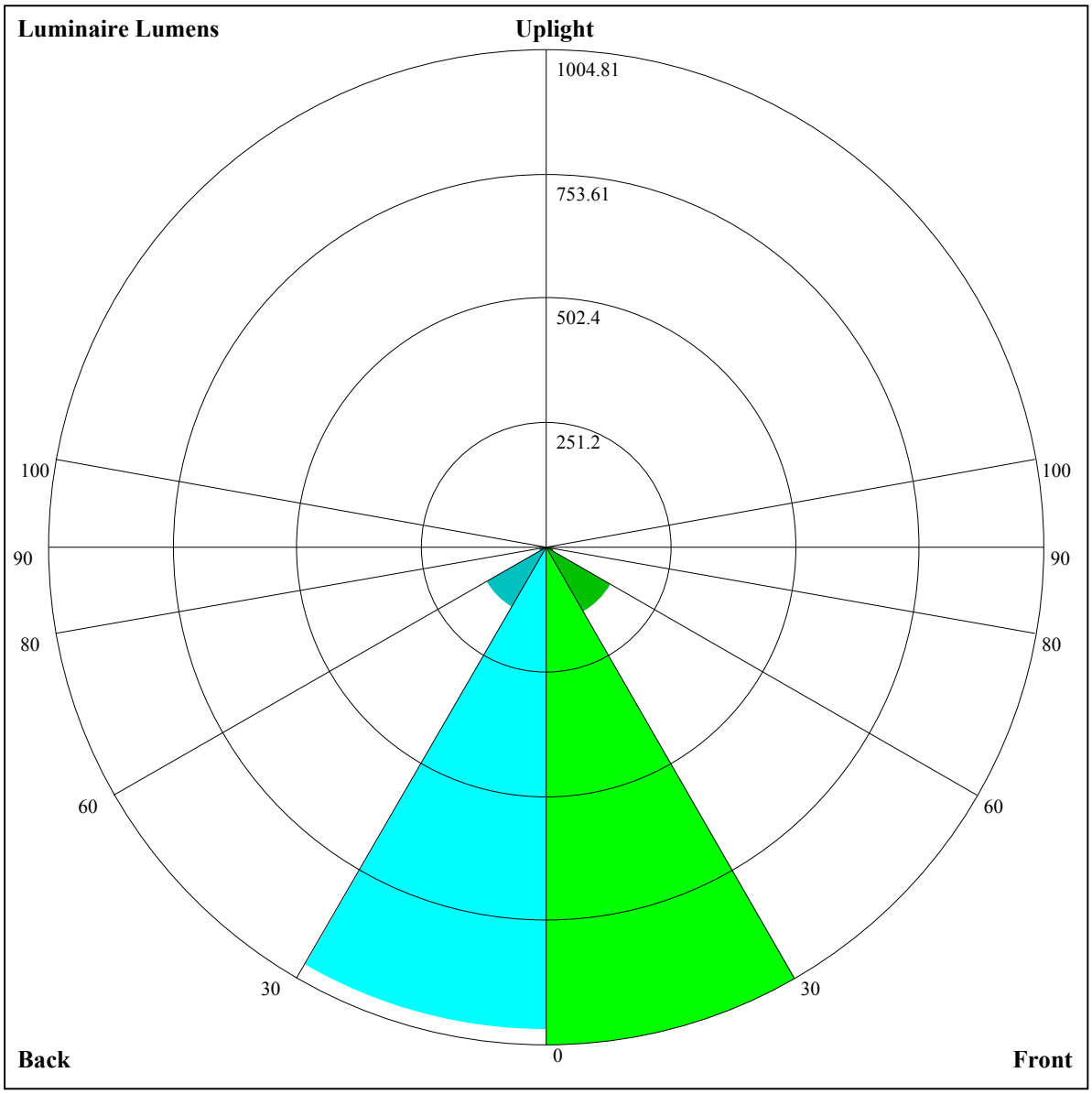
Utilization factor table for indoor luminaire

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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.95	0.93	0.91	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	0.84	0.88	0.85	0.83	0.85	0.83	0.81	0.83	0.81	0.80	0.81	0.79	0.78	0.77
3	0.85	0.81	0.78	0.84	0.80	0.77	0.81	0.79	0.76	0.79	0.77	0.75	0.78	0.76	0.74	0.73
4	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.75	0.72	0.70	0.69
5	0.77	0.72	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.66
6	0.73	0.69	0.66	0.72	0.68	0.65	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	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.60
8	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
9	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=1004.81,FM=151.69,FH=16.25,FVH=5.84
BL=975.06,BM=140.77,BH=16.29,BVH=5.82
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	7616.18	7555.31	7427.15	7158.53	6891.67	6561.60	6119.76	5762.18	5396.42
45.0	7544.19	7631.39	7610.32	7533.07	7298.40	7025.68	6615.44	6271.91	5909.08
90.0	7619.69	7602.72	7452.90	7144.49	6854.21	6524.73	6171.84	5714.78	5346.67
135.0	7588.09	7611.49	7531.32	7333.51	7003.45	6683.91	6346.24	5986.33	5533.36
180.0	7616.18	7555.31	7376.23	7110.54	6816.76	6401.25	6044.26	5667.38	5301.61
225.0	7544.19	7284.94	7008.71	6689.18	6341.56	5884.50	5508.78	5137.75	4789.54
270.0	7619.69	7596.28	7400.23	7155.60	6767.60	6431.10	6077.03	5611.78	5241.33
315.0	7588.09	7449.39	7255.68	6916.25	6593.79	6244.99	5787.93	5414.56	5045.28
360.0	7616.18	7555.31	7427.15	7158.53	6891.67	6561.60	6119.76	5762.18	5396.42

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4937.60	4577.69	4243.52	3922.82	3537.16	3261.52	2999.92	2761.74	2504.82
45.0	5444.41	5077.47	4722.24	4386.91	3971.98	3657.71	3369.78	3100.58	2800.95
90.0	4999.05	4563.06	4225.97	3903.51	3517.26	3235.77	2982.95	2687.41	2477.90
135.0	5172.86	4833.43	4394.51	4063.86	3746.67	3374.47	3104.68	2857.13	2575.63
180.0	4874.98	4524.43	4173.88	3775.34	3469.86	3127.50	2879.37	2651.71	2441.03
225.0	4357.64	4018.80	3710.97	3350.47	3084.19	2782.80	2568.03	2376.07	2160.12
270.0	4878.49	4455.38	4114.78	3794.66	3492.10	3139.21	2891.66	2668.10	2460.34
315.0	4593.49	4265.18	3938.62	3634.89	3341.11	3015.14	2780.46	2565.10	2325.74
360.0	4937.60	4577.69	4243.52	3922.82	3537.16	3261.52	2999.92	2761.74	2504.82

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2318.72	2150.76	1968.17	1834.74	1684.34	1573.73	1469.56	1279.36	1148.21
45.0	2582.66	2393.63	2180.02	2027.28	1889.16	1732.32	1617.62	1483.60	1381.77
90.0	2296.48	2129.69	1943.01	1809.57	1683.17	1569.05	1433.86	1270.00	1144.11
135.0	2381.34	2208.70	2053.61	1880.39	1753.39	1636.35	1528.08	1399.92	1299.84
180.0	2220.99	2061.22	1912.57	1742.86	1624.06	1515.79	1412.79	1293.99	1195.09
225.0	2005.04	1861.66	1737.01	1589.53	1482.43	1384.12	1166.29	1166.29	1076.81
270.0	2277.17	2077.02	1934.23	1764.51	1642.20	1528.67	1406.94	1307.45	1217.33
315.0	2153.10	1998.02	1826.55	1704.82	1567.29	1464.88	1367.73	1153.07	1153.07
360.0	2318.72	2150.76	1968.17	1834.74	1684.34	1573.73	1469.56	1279.36	1148.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1148.21	1052.82	932.20	835.23	738.85	643.34	528.40	443.83	368.63
45.0	1284.04	1186.89	1063.41	966.85	869.12	771.39	648.49	556.02	470.58
90.0	1119.18	1026.13	930.39	811.36	715.61	597.69	506.16	423.82	349.67
135.0	1203.28	1079.80	985.58	885.50	762.61	663.70	571.24	464.73	388.06
180.0	1106.13	988.50	890.77	788.94	664.87	569.48	482.28	385.14	317.84
225.0	979.90	886.15	762.55	664.23	548.59	465.55	388.82	303.61	243.63
270.0	1100.28	997.87	904.82	805.91	682.43	589.97	501.01	420.84	334.22
315.0	1058.91	962.17	863.73	766.18	646.62	552.39	468.00	390.93	307.59
360.0	1148.21	1052.82	932.20	835.23	738.85	643.34	528.40	443.83	368.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	285.82	229.00	179.78	130.80	101.65	79.65	63.79	50.15	42.96
45.0	374.02	304.96	304.96	176.27	136.83	106.80	79.30	63.85	53.08
90.0	268.09	212.73	166.15	127.99	93.64	73.97	59.93	50.15	41.84
135.0	318.42	302.03	228.76	143.67	104.52	82.63	66.77	53.14	45.53
180.0	300.86	300.86	146.89	114.12	89.60	71.40	55.77	47.23	39.85
225.0	192.25	149.41	108.44	84.86	67.65	55.71	45.47	40.03	35.87
270.0	303.21	303.21	160.18	124.89	91.65	72.39	58.82	49.33	41.32
315.0	247.73	184.81	144.43	112.48	82.75	66.25	54.60	44.77	39.44
360.0	285.82	229.00	179.78	130.80	101.65	79.65	63.79	50.15	42.96

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	37.81	33.18	30.49	28.44	26.69	24.93	23.88	23.06	22.41
45.0	45.24	38.57	34.76	31.84	29.50	27.10	25.63	24.46	23.35
90.0	37.28	33.12	30.55	28.56	26.57	25.22	24.17	23.41	22.71
135.0	39.97	35.87	32.07	29.73	27.86	26.28	24.70	23.82	23.17
180.0	35.64	32.60	29.61	27.74	26.28	24.99	23.82	23.06	22.65
225.0	32.13	29.85	27.51	26.04	24.87	23.94	23.06	22.59	22.30
270.0	36.81	33.53	30.90	28.27	26.69	25.40	24.35	23.29	22.71
315.0	35.41	32.42	29.50	27.62	26.10	24.87	23.70	22.94	22.41
360.0	37.81	33.18	30.49	28.44	26.69	24.93	23.88	23.06	22.41

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.06	21.95	22.00	22.24	22.53	22.94	23.06	22.88	22.41
45.0	22.71	22.24	22.00	21.89	22.06	22.30	22.59	22.77	22.65
90.0	22.36	22.12	22.06	22.24	22.47	22.71	22.88	22.65	22.06
135.0	22.53	22.30	22.18	22.36	22.59	22.82	23.12	23.06	22.71
180.0	22.30	22.18	22.24	22.41	22.65	23.00	23.00	22.65	21.95
225.0	22.18	22.30	22.53	22.77	23.06	23.06	22.82	21.95	20.89
270.0	22.36	22.24	22.36	22.53	22.77	23.12	23.12	22.88	22.30
315.0	22.30	22.24	22.47	22.65	22.94	23.12	23.06	22.59	21.77
360.0	22.06	21.95	22.00	22.24	22.53	22.94	23.06	22.88	22.41

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.30	20.13	18.90	17.67	16.33	15.57	14.81	14.34	14.05
45.0	22.18	21.48	20.48	19.25	17.73	16.68	15.86	15.04	14.57
90.0	21.13	20.01	18.79	17.32	16.39	15.57	14.92	14.46	14.10
135.0	21.95	21.01	19.49	18.14	17.03	15.98	15.33	14.69	14.28
180.0	20.95	19.49	18.14	16.97	15.92	15.22	14.69	14.34	13.93
225.0	19.84	18.14	17.09	16.21	15.51	14.92	14.51	14.22	13.81
270.0	21.36	19.90	18.55	17.38	16.44	15.51	14.92	14.57	14.10
315.0	20.72	19.20	17.91	16.80	15.74	15.10	14.69	14.16	13.87
360.0	21.30	20.13	18.90	17.67	16.33	15.57	14.81	14.34	14.05

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.58	13.34	13.17	12.87	12.70	12.47	12.23	11.94	11.70
45.0	14.10	13.81	13.52	13.28	13.11	12.87	12.70	12.58	12.23
90.0	13.81	13.46	13.28	13.11	12.87	12.64	12.41	12.17	11.82
135.0	13.93	13.64	13.34	13.17	12.99	12.70	12.52	12.29	12.06
180.0	13.69	13.46	13.28	12.99	12.82	12.70	12.47	12.29	12.00
225.0	13.64	13.81	15.39	16.97	16.91	15.27	13.58	11.76	11.47
270.0	13.81	13.52	13.23	13.05	12.87	12.58	12.35	12.11	11.88
315.0	13.46	13.28	13.05	12.82	12.58	12.35	12.11	11.88	11.70
360.0	13.58	13.34	13.17	12.87	12.70	12.47	12.23	11.94	11.70

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.47	11.18	10.94	10.83	10.65	10.48	10.30	10.07	9.89
45.0	11.88	11.53	11.29	11.06	10.83	10.65	10.48	10.24	10.07
90.0	11.53	11.29	11.06	10.83	10.59	10.42	10.30	10.07	9.89
135.0	11.76	11.47	11.29	11.06	10.89	10.48	10.30	10.12	9.95
180.0	11.70	11.41	11.29	11.06	10.48	10.24	10.07	9.95	9.83
225.0	11.18	11.06	10.83	10.65	10.36	10.18	9.95	9.83	9.83
270.0	11.59	11.29	11.06	10.83	10.59	10.36	10.18	9.95	9.83
315.0	11.41	11.18	10.94	10.65	10.59	10.30	10.07	9.89	9.83
360.0	11.47	11.18	10.94	10.83	10.65	10.48	10.30	10.07	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.95
90.0	9.83
135.0	9.77
180.0	9.83
225.0	9.83
270.0	9.83
315.0	9.83
360.0	9.83