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NT

Client:
LumCAT: 3-2806-L
Luminaire: 92.70.429.00
Report No: 2024411-B014
Ballast type: AC

Test No: 2024411-C014	Voltage(V): 34.800
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 2685.0	Power (W): 18.444
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2273.74, Efficiency(%): 84.68% , Luminous Efficacy(lm/W): 123.28
Central intensity(cd): 7931.907, Maximum intensity(cd): 7931.907
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.6
[C90/270]Total=23.6
Field angle(10%Imax): [C0/180]Total=58.8
[C90/270]Total=58.8
Maximum s/h(1/2): C0_180=0.39 C90_270=0.39
Maximum s/h(1/4): C0_180=0.45 C90_270=0.45
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.68%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.791%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7931.906	0.000	0	0.00%	0.00%
1.0	7893.500	7.572	7.572	0.28%	0.33%
2.0	7783.112	22.501	30.073	0.84%	1.32%
3.0	7572.797	36.726	66.799	1.37%	2.94%
4.0	7300.448	49.786	116.585	1.85%	5.13%
5.0	6916.760	61.162	177.746	2.28%	7.82%
6.0	6492.106	70.467	248.213	2.62%	10.92%
7.0	6016.318	77.640	325.853	2.89%	14.33%
8.0	5553.039	82.800	408.653	3.08%	17.97%
9.0	5113.755	86.449	495.101	3.22%	21.77%
10.0	4677.762	88.610	583.711	3.30%	25.67%
11.0	4256.693	89.274	672.984	3.32%	29.60%
12.0	3899.632	89.160	762.145	3.32%	33.52%
13.0	3556.910	88.490	850.635	3.30%	37.41%
14.0	3244.765	87.061	937.696	3.24%	41.24%
15.0	2938.912	84.892	1022.588	3.16%	44.97%
16.0	2695.605	82.561	1105.15	3.07%	48.60%
17.0	2460.856	80.300	1185.45	2.99%	52.14%
18.0	2265.757	77.932	1263.381	2.90%	55.56%
19.0	2081.338	75.631	1339.012	2.82%	58.89%
20.0	1914.403	73.133	1412.145	2.72%	62.11%
21.0	1765.975	70.671	1482.816	2.63%	65.21%
22.0	1624.424	68.132	1550.947	2.54%	68.21%
23.0	1425.850	64.003	1614.95	2.38%	71.03%
24.0	1276.251	59.078	1674.028	2.20%	73.62%
25.0	1190.289	56.084	1730.111	2.09%	76.09%
26.0	1072.461	53.412	1783.524	1.99%	78.44%
27.0	971.708	50.011	1833.535	1.86%	80.64%
28.0	899.381	47.372	1880.907	1.76%	82.72%
29.0	823.002	45.062	1925.969	1.68%	84.70%
30.0	741.048	42.229	1968.198	1.57%	86.56%
31.0	638.502	38.391	2006.589	1.43%	88.25%
32.0	538.882	33.731	2040.32	1.26%	89.73%
33.0	442.240	28.904	2069.224	1.08%	91.01%
34.0	343.527	23.780	2093.004	0.89%	92.05%
35.0	265.853	18.925	2111.929	0.70%	92.88%
36.0	223.293	15.574	2127.503	0.58%	93.57%
37.0	145.970	12.043	2139.547	0.45%	94.10%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	95.487	8.059	2147.606	0.30%	94.45%
39.0	83.541	6.111	2153.717	0.23%	94.72%
40.0	75.794	5.557	2159.274	0.21%	94.97%
41.0	69.532	5.175	2164.449	0.19%	95.19%
42.0	63.848	4.846	2169.295	0.18%	95.41%
43.0	58.442	4.530	2173.825	0.17%	95.61%
44.0	53.716	4.233	2178.058	0.16%	95.79%
45.0	49.517	3.967	2182.025	0.15%	95.97%
46.0	45.582	3.719	2185.745	0.14%	96.13%
47.0	42.356	3.497	2189.242	0.13%	96.28%
48.0	39.291	3.301	2192.543	0.12%	96.43%
49.0	36.737	3.122	2195.665	0.12%	96.57%
50.0	34.433	2.967	2198.632	0.11%	96.70%
51.0	32.480	2.831	2201.463	0.11%	96.82%
52.0	30.768	2.714	2204.177	0.10%	96.94%
53.0	29.232	2.610	2206.787	0.10%	97.06%
54.0	28.047	2.525	2209.312	0.09%	97.17%
55.0	27.030	2.459	2211.77	0.09%	97.27%
56.0	26.211	2.406	2214.176	0.09%	97.38%
57.0	25.618	2.370	2216.546	0.09%	97.48%
58.0	25.135	2.347	2218.893	0.09%	97.59%
59.0	24.601	2.325	2221.218	0.09%	97.69%
60.0	24.162	2.304	2223.522	0.09%	97.79%
61.0	23.592	2.279	2225.801	0.08%	97.89%
62.0	22.619	2.227	2228.028	0.08%	97.99%
63.0	21.661	2.154	2230.181	0.08%	98.08%
64.0	20.688	2.078	2232.259	0.08%	98.18%
65.0	19.656	1.997	2234.256	0.07%	98.26%
66.0	18.661	1.912	2236.167	0.07%	98.35%
67.0	17.908	1.839	2238.006	0.07%	98.43%
68.0	17.052	1.771	2239.777	0.07%	98.51%
69.0	16.299	1.701	2241.479	0.06%	98.58%
70.0	15.794	1.648	2243.127	0.06%	98.65%
71.0	15.655	1.625	2244.752	0.06%	98.73%
72.0	15.874	1.639	2246.392	0.06%	98.80%
73.0	16.394	1.687	2248.079	0.06%	98.87%
74.0	17.111	1.761	2249.84	0.07%	98.95%
75.0	17.798	1.844	2251.685	0.07%	99.03%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.120	1.907	2253.592	0.07%	99.11%
77.0	18.215	1.937	2255.529	0.07%	99.20%
78.0	17.959	1.936	2257.465	0.07%	99.28%
79.0	17.293	1.894	2259.359	0.07%	99.37%
80.0	16.218	1.807	2261.166	0.07%	99.45%
81.0	14.828	1.679	2262.845	0.06%	99.52%
82.0	13.160	1.518	2264.363	0.06%	99.59%
83.0	11.748	1.354	2265.717	0.05%	99.65%
84.0	11.229	1.252	2266.969	0.05%	99.70%
85.0	10.885	1.207	2268.175	0.04%	99.76%
86.0	10.446	1.166	2269.341	0.04%	99.81%
87.0	10.161	1.128	2270.469	0.04%	99.86%
88.0	9.993	1.104	2271.573	0.04%	99.90%
89.0	9.846	1.087	2272.661	0.04%	99.95%
90.0	9.817	1.078	2273.739	0.04%	100.00%

Zonal flux distribution table

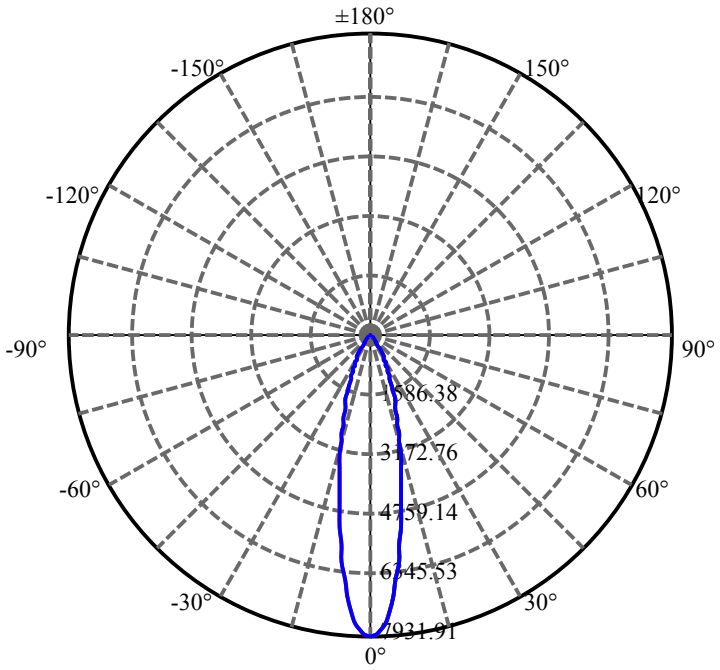
ZONAL LUMEN SUMMARY

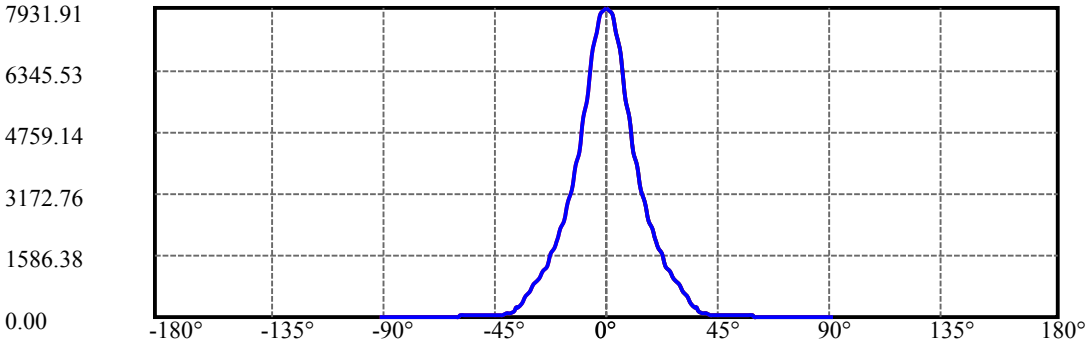
Zone	Lumens	%Lamp	%Fixt
0-30	1968.20	73.30%	86.56%
0-40	2159.27	80.42%	94.97%
0-60	2223.52	82.81%	97.79%
0-90	2272.66	84.64%	99.95%
0-120	2272.66	84.64%	99.95%
0-180	2273.74	84.68%	100.00%
60-90	49.14	1.83%	2.16%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.71	1818.99	67.75%	80.00%

ZONAL LUMEN SUMMARY

0-10	583.71
10-20	828.43
20-30	556.05
30-40	191.08
40-50	39.36
50-60	24.89
60-70	19.60
70-80	18.04
80-90	11.49
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):

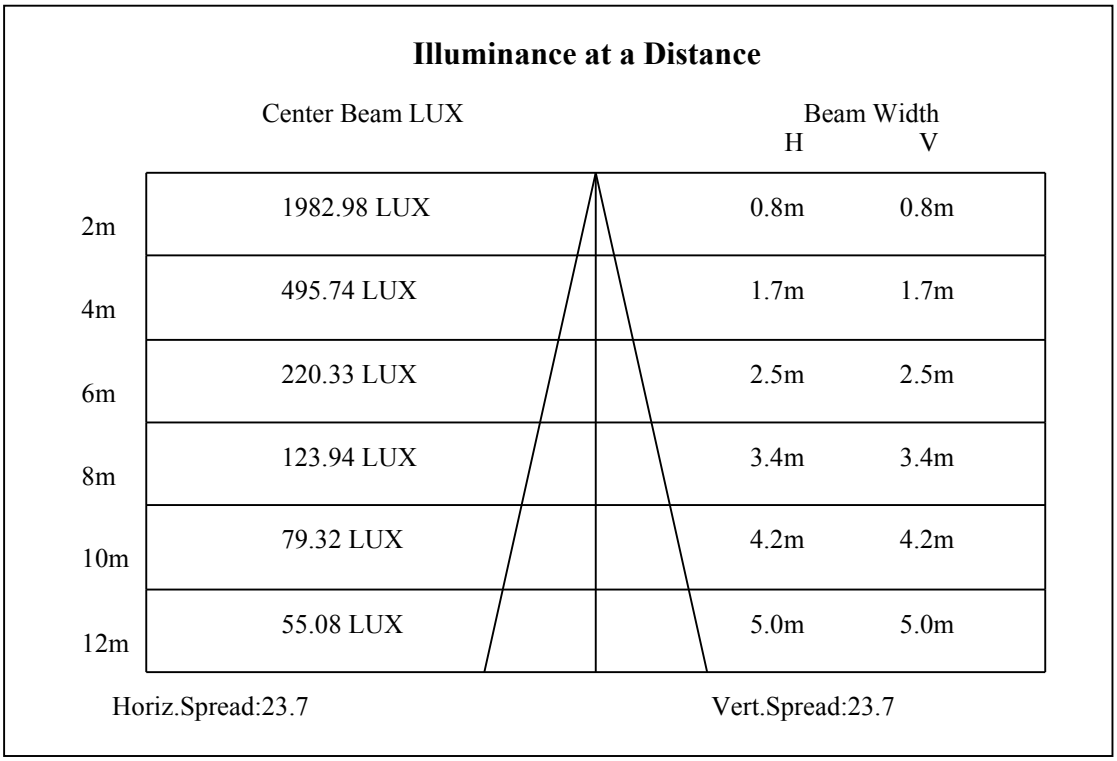
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:29.4 Right:29.4
:C90/270Left:29.4 Right:29.4

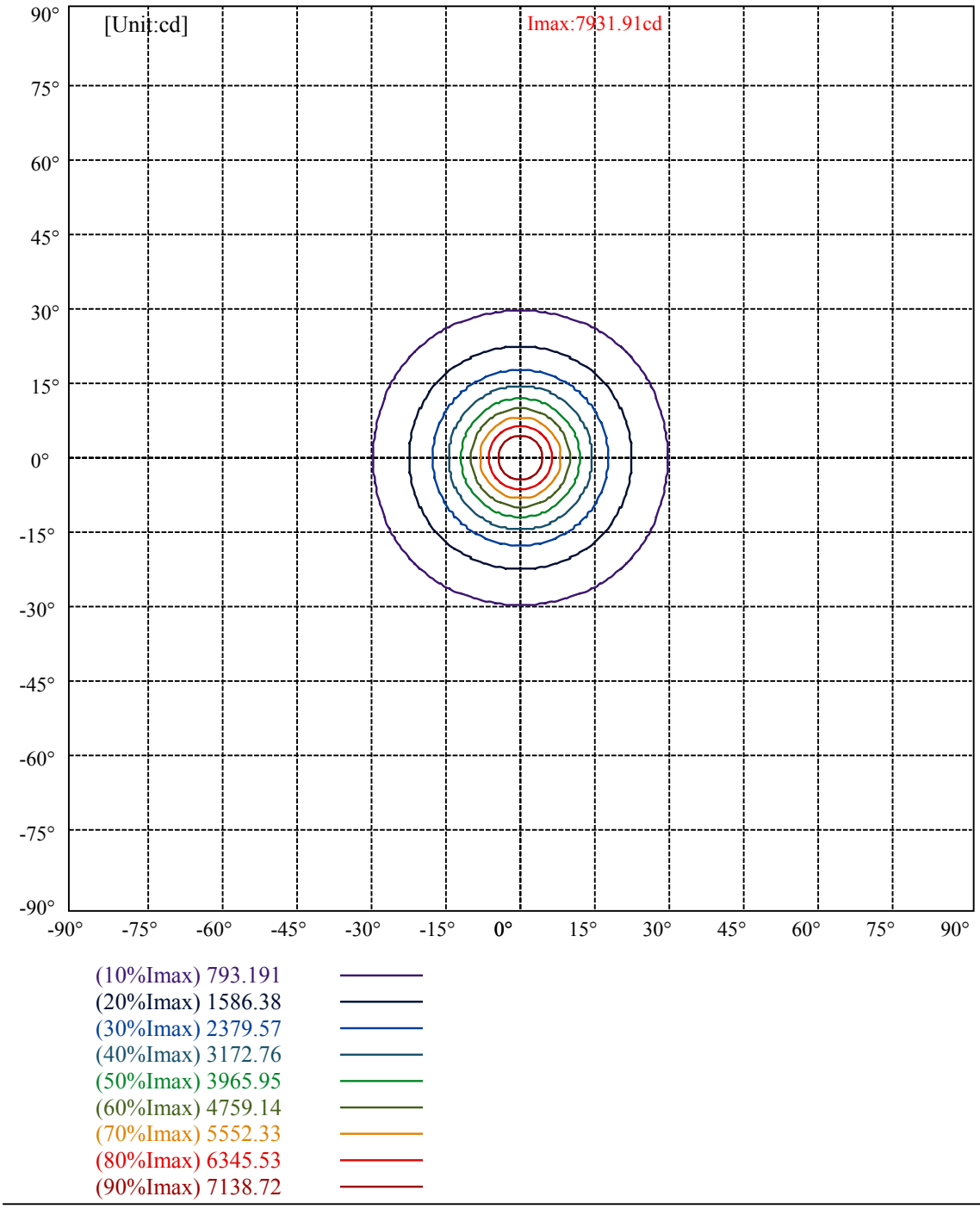
Beam Angle(50%Imax):C0/180Left:11.8 Right:11.8
:C90/270Left:11.8 Right:11.8

Lux distance Curve



Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO-Intensity(V-H)

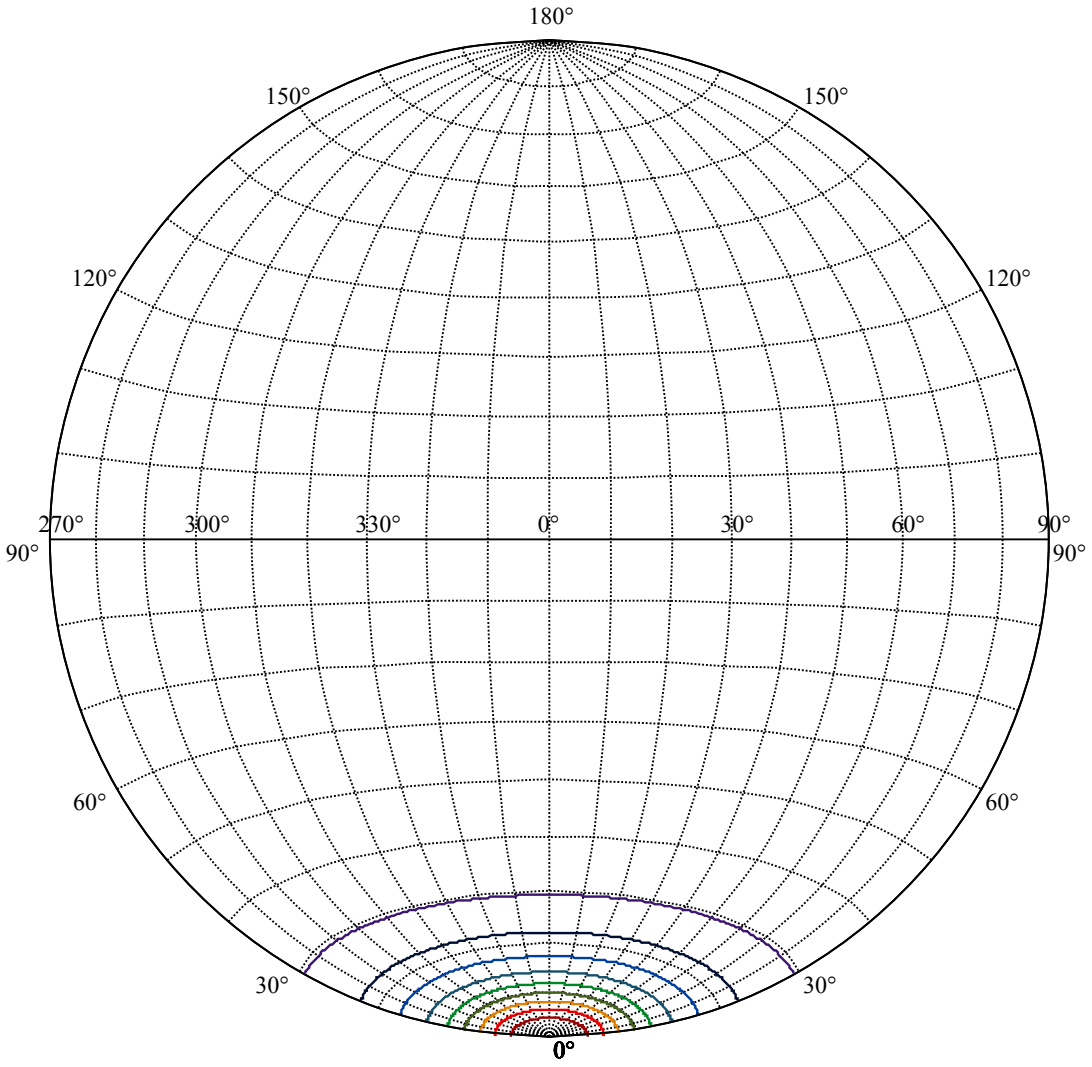


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

ISO candela diagram on circular web



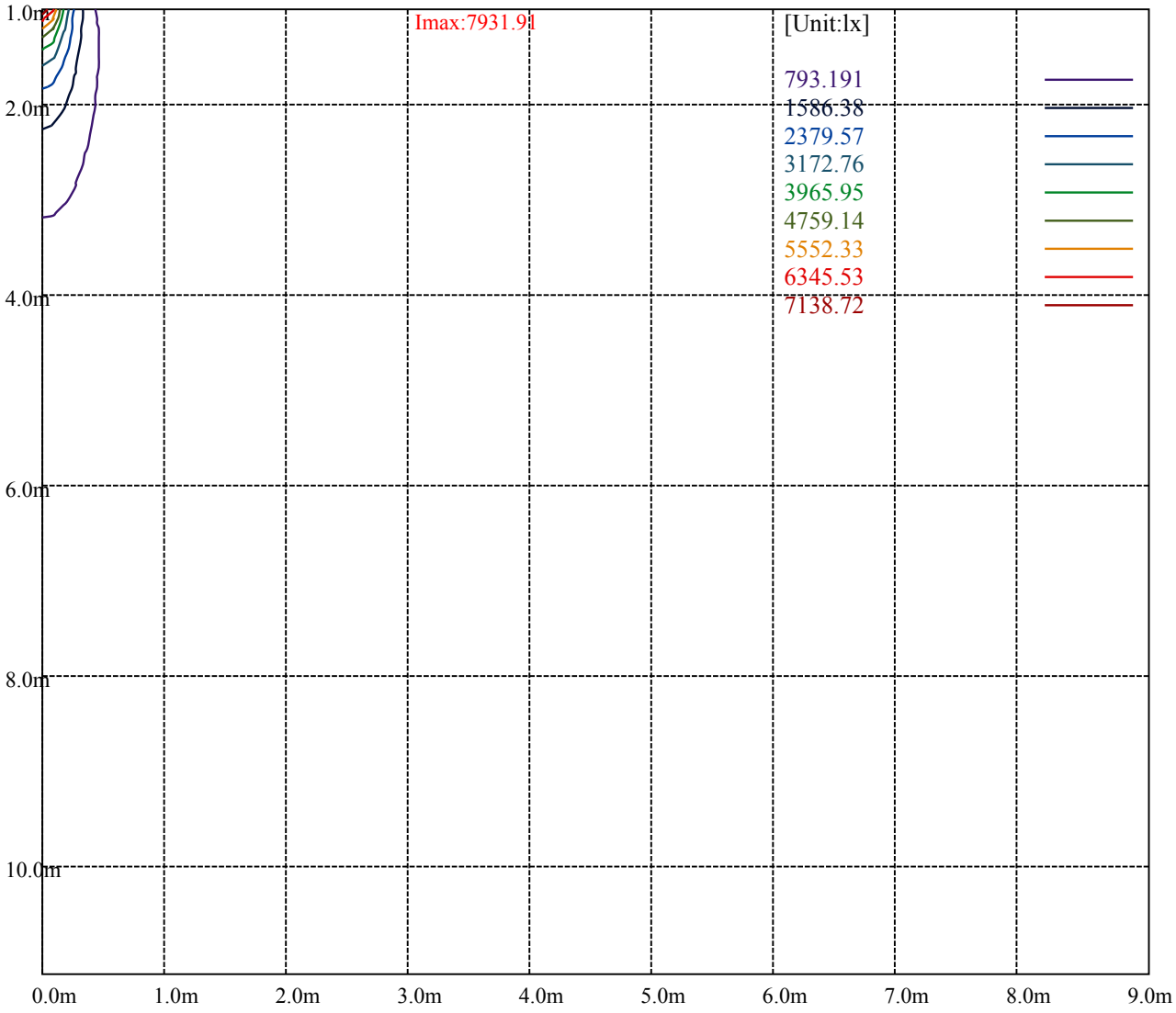
House [Unit:cd] Road

Imax:7931.91

(10%Imax) 793.191
(20%Imax) 1586.38
(30%Imax) 2379.57
(40%Imax) 3172.76
(50%Imax) 3965.95
(60%Imax) 4759.14
(70%Imax) 5552.33
(80%Imax) 6345.53
(90%Imax) 7138.72

Equipment: GMS1980	Date: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Luminance Limitting Curve(no luminous side)

Luminance Table

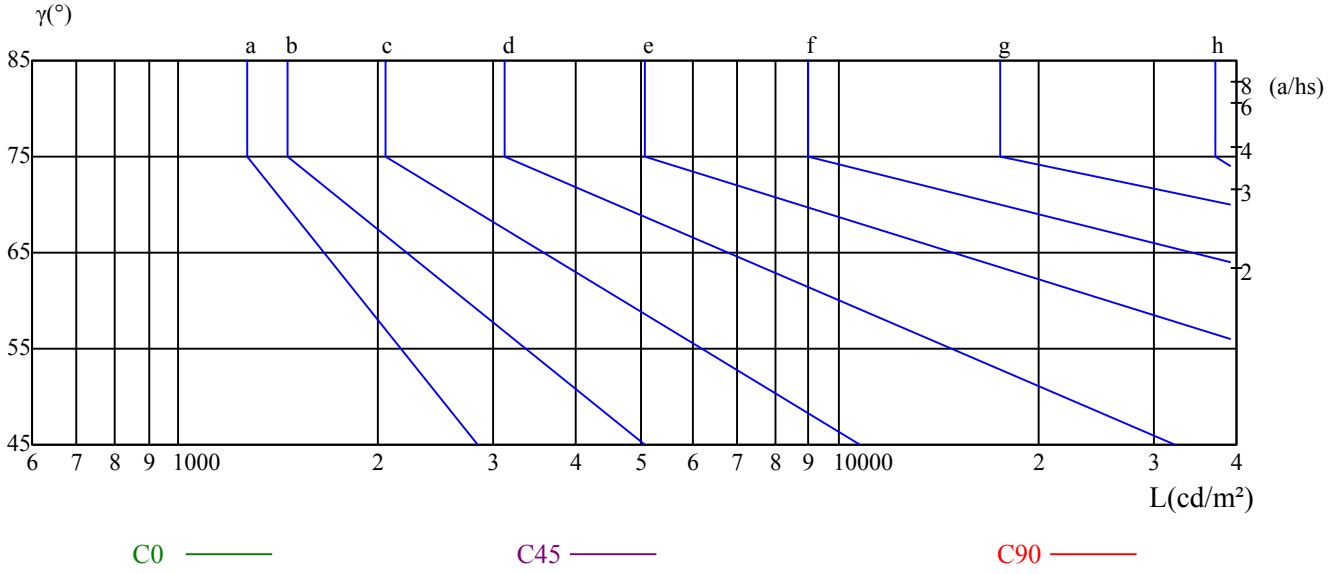
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

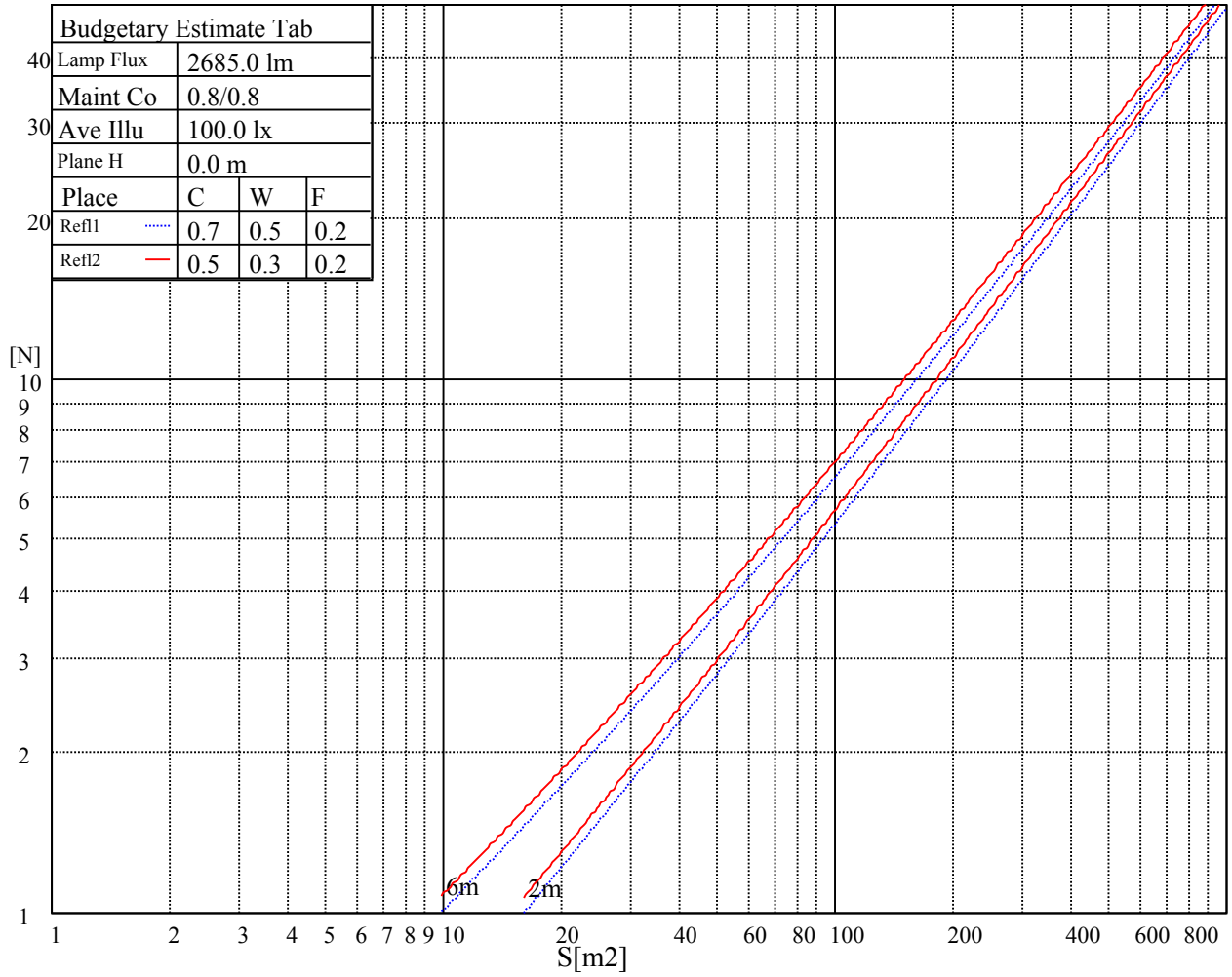
Luminance Limitting Curve



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

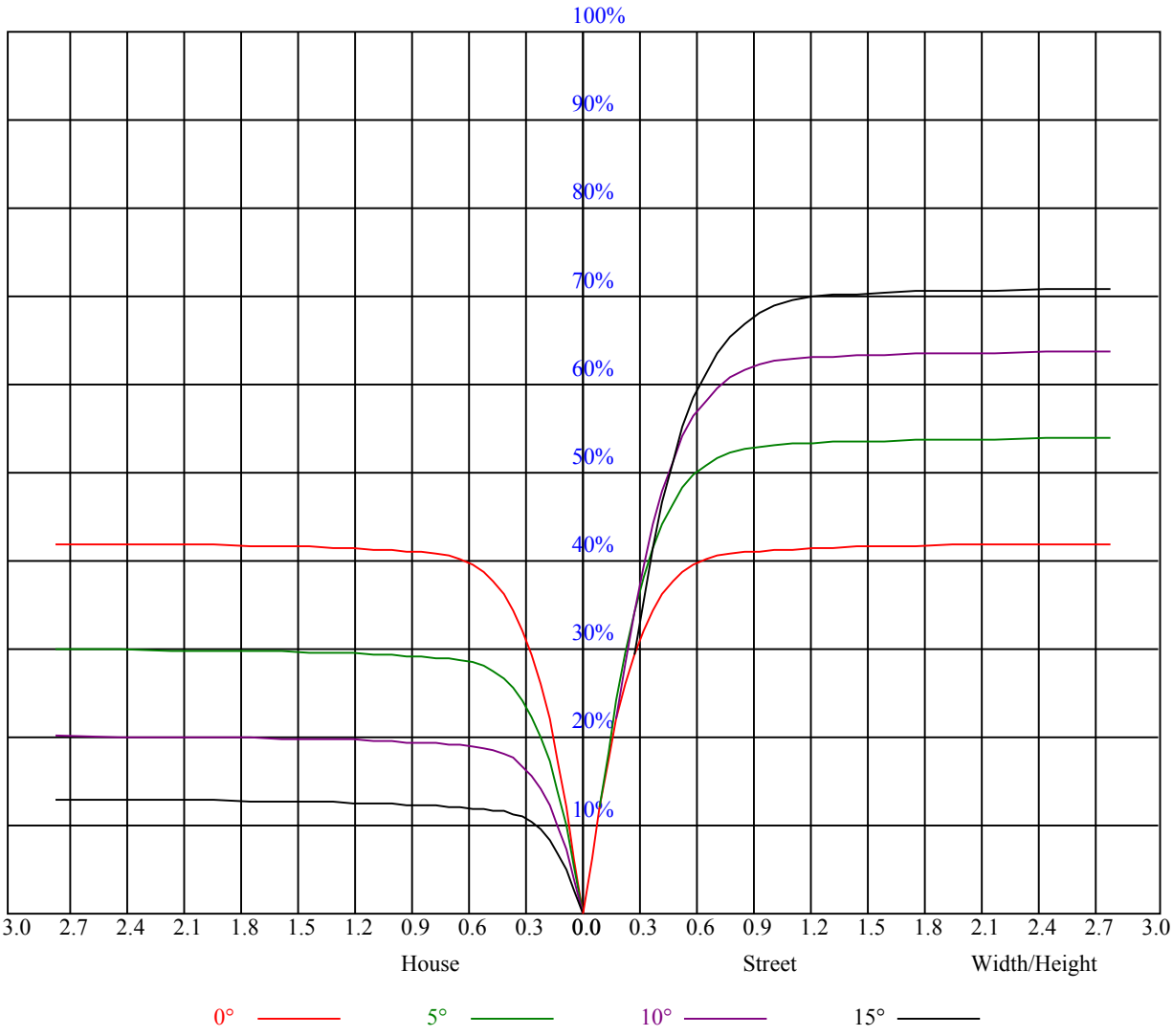


Equipment: GMS1980 Date: 2024/4/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

Utilization factor table for indoor luminaire

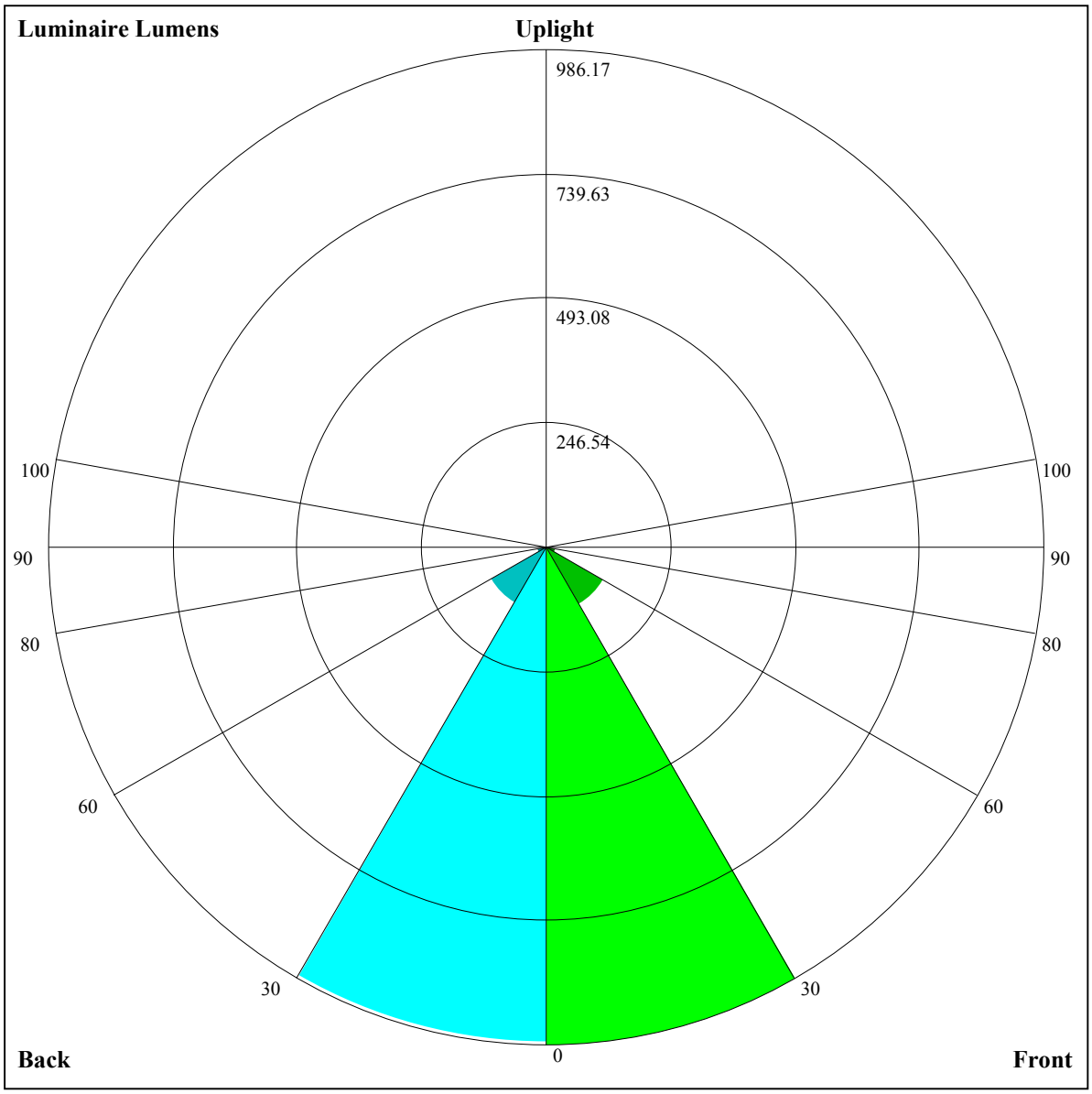
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.01	1.01	1.01	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.94	0.92	0.91	0.93	0.91	0.89	0.89	0.88	0.87	0.86	0.85	0.84	0.83	0.82	0.82	0.80
2	0.89	0.86	0.83	0.88	0.85	0.82	0.85	0.83	0.81	0.82	0.81	0.79	0.80	0.79	0.77	0.76
3	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.74	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	0.68	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	0.66	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	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.61
8	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.58
9	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.55	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/4/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

LCS Graph



Luminaire Lumens:
FL=986.17,FM=129.12,FH=19.32,FVH=6.51
BL=981.76,BM=127.81,BH=19.05,BVH=6.27
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	7949.17	7915.23	7763.07	7558.82	7268.55	6793.94	6377.84	5949.46	5403.44
45.0	7910.54	7949.17	7933.95	7809.30	7637.24	7357.51	6912.74	6498.98	6061.82
90.0	7949.17	7896.50	7795.26	7559.41	7269.14	6889.33	6380.18	5941.85	5499.42
135.0	7918.74	7935.71	7887.72	7734.98	7527.81	7226.42	6857.73	6337.46	5900.88
180.0	7949.17	7914.64	7814.57	7644.27	7394.38	6991.16	6592.03	6136.14	5680.25
225.0	7910.54	7776.53	7595.11	7261.53	6895.76	6494.89	6074.69	5514.05	5086.25
270.0	7949.17	7915.81	7821.59	7602.13	7323.56	6982.96	6585.01	6035.48	5612.95
315.0	7918.74	7844.41	7653.63	7411.93	7087.13	6597.89	6156.63	5717.12	5179.30
360.0	7949.17	7915.23	7763.07	7558.82	7268.55	6793.94	6377.84	5949.46	5403.44

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4982.08	4577.69	4203.73	3771.83	3459.32	3173.15	2865.91	2638.84	2441.62
45.0	5608.85	5168.77	4663.72	4288.00	3943.89	3612.65	3237.52	2968.32	2671.03
90.0	5057.57	4546.67	4172.13	3823.92	3502.63	3143.30	2881.71	2651.13	2402.99
135.0	5457.28	4931.75	4539.06	4170.37	3749.01	3431.82	3145.64	2820.84	2595.53
180.0	5167.01	4727.51	4347.70	4010.02	3589.83	3287.85	2951.35	2715.50	2503.65
225.0	4674.25	4304.39	3876.00	3559.98	3269.13	2943.74	2706.72	2499.55	2261.95
270.0	5191.00	4783.10	4303.80	3947.40	3616.75	3312.43	2968.90	2726.62	2460.34
315.0	4771.98	4382.22	3947.40	3625.53	3324.72	3053.18	2753.54	2544.03	2349.74
360.0	4982.08	4577.69	4203.73	3771.83	3459.32	3173.15	2865.91	2638.84	2441.62

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2222.74	2064.73	1917.26	1741.69	1600.65	1463.12	1150.03	1150.03	1033.21
45.0	2469.71	2234.45	2069.41	1919.01	1778.56	1609.43	1477.17	1337.30	1200.35
90.0	2228.60	2029.62	1881.56	1742.27	1611.18	1446.15	1141.83	1141.83	1055.75
135.0	2392.46	2211.62	2010.31	1865.17	1724.13	1593.04	1434.44	1300.43	1163.49
180.0	2267.81	2088.14	1940.08	1800.21	1622.30	1488.87	1358.37	1228.45	1080.38
225.0	2092.24	1940.66	1755.73	1622.30	1486.53	1139.78	1139.78	1053.23	970.48
270.0	2281.85	2106.87	1907.31	1777.97	1642.20	1500.58	1342.56	1209.72	1080.97
315.0	2170.66	1974.61	1833.57	1659.17	1529.84	1165.83	1165.83	1101.33	995.06
360.0	2222.74	2064.73	1917.26	1741.69	1600.65	1463.12	1150.03	1150.03	1033.21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	956.96	897.09	805.80	718.71	627.71	511.55	417.97	323.34	218.70
45.0	1047.61	966.26	902.48	838.10	736.27	649.66	558.95	443.66	354.70
90.0	954.62	893.93	829.56	748.56	640.06	548.47	430.55	338.96	254.22
135.0	1025.37	948.12	873.21	800.06	714.62	601.08	509.79	417.91	330.71
180.0	994.94	928.81	846.88	764.36	672.48	554.27	453.61	362.90	297.35
225.0	906.46	820.13	735.45	643.57	529.86	435.47	347.62	244.39	170.77
270.0	979.73	899.55	831.08	747.39	634.44	550.76	450.10	334.22	314.32
315.0	907.98	841.14	759.56	667.62	552.57	459.81	369.34	282.84	186.04
360.0	956.96	897.09	805.80	718.71	627.71	511.55	417.97	323.34	218.70

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	152.28	109.91	90.65	82.05	75.67	69.99	63.09	58.29	54.07
45.0	310.23	310.23	120.03	98.43	86.85	79.88	73.80	68.00	61.33
90.0	165.21	115.17	92.17	81.05	74.73	69.17	63.50	57.53	53.31
135.0	309.64	212.96	111.54	92.99	81.87	75.14	69.12	61.92	57.24
180.0	297.35	123.72	96.68	83.92	76.78	70.34	64.26	57.76	53.31
225.0	109.85	91.53	82.46	75.55	69.47	62.62	57.82	53.49	49.33
270.0	314.32	107.56	87.32	78.30	71.92	65.31	60.34	56.06	52.09
315.0	127.46	96.68	83.04	76.02	69.06	63.79	58.87	54.48	49.04
360.0	152.28	109.91	90.65	82.05	75.67	69.99	63.09	58.29	54.07

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	49.92	45.47	42.37	38.86	36.46	34.24	32.36	30.37	28.97
45.0	57.06	52.61	48.75	44.71	41.67	38.51	36.11	34.18	32.07
90.0	49.28	45.65	41.96	39.33	36.87	34.24	32.48	30.49	29.14
135.0	52.90	47.64	44.36	41.32	37.75	35.46	33.42	31.72	29.96
180.0	49.10	44.65	41.73	38.92	36.11	33.94	31.72	30.14	28.73
225.0	45.00	42.08	38.68	36.52	34.53	32.42	30.78	29.50	28.15
270.0	47.46	44.24	41.49	38.22	36.11	34.18	32.13	30.67	28.97
315.0	45.41	42.31	39.50	36.46	34.41	32.48	30.84	29.09	27.86
360.0	49.92	45.47	42.37	38.86	36.46	34.24	32.36	30.37	28.97

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	27.56	26.57	25.69	25.46	24.87	24.17	23.88	23.58	22.06
45.0	30.55	29.26	28.38	27.15	26.63	26.16	25.63	25.05	24.64
90.0	28.03	27.15	26.10	25.63	25.28	24.81	24.23	23.82	22.82
135.0	28.68	27.68	26.74	25.75	25.34	24.87	24.23	23.82	22.88
180.0	27.62	26.39	25.46	24.99	24.64	23.94	23.58	23.29	22.30
225.0	27.15	26.28	25.87	25.34	24.70	24.23	23.76	22.59	21.71
270.0	28.03	27.04	26.28	25.75	25.34	24.81	24.40	23.88	22.88
315.0	26.74	25.87	25.16	24.87	24.29	23.82	23.58	22.71	21.65
360.0	27.56	26.57	25.69	25.46	24.87	24.17	23.88	23.58	22.06

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.36	20.48	19.25	18.32	17.67	16.56	15.92	15.39	14.86
45.0	23.58	22.36	21.59	20.42	19.31	18.61	17.56	16.85	16.39
90.0	21.77	20.83	19.78	18.61	17.97	17.15	16.27	15.80	15.45
135.0	21.83	21.19	20.25	18.96	18.14	17.44	16.62	15.80	15.33
180.0	21.07	20.37	19.25	18.14	17.50	16.68	15.86	15.33	14.86
225.0	20.89	19.55	18.73	17.91	17.09	16.44	15.86	15.45	15.57
270.0	21.89	21.19	19.78	18.96	18.38	17.26	16.68	16.50	18.08
315.0	20.89	19.55	18.61	17.97	17.21	16.27	15.63	15.22	14.69
360.0	21.36	20.48	19.25	18.32	17.67	16.56	15.92	15.39	14.86

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.51	14.22	13.93	13.64	13.52	13.52	13.46	13.11	12.76
45.0	16.44	17.38	18.38	19.84	21.83	24.40	25.93	25.22	23.35
90.0	16.04	18.02	19.78	21.54	21.65	21.07	20.42	19.66	18.84
135.0	14.92	14.51	14.16	13.87	13.64	13.46	13.28	13.11	12.82
180.0	14.46	14.22	13.93	13.64	13.46	13.40	13.28	12.87	12.52
225.0	16.39	17.44	19.43	21.30	22.53	22.77	21.48	19.55	16.21
270.0	19.84	21.30	23.41	24.76	24.64	23.64	22.59	21.83	20.60
315.0	14.40	14.05	13.87	13.81	13.69	13.46	13.23	12.99	12.64
360.0	14.51	14.22	13.93	13.64	13.52	13.52	13.46	13.11	12.76

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.47	12.00	11.53	11.35	11.12	10.48	10.12	10.01	9.89
45.0	21.30	17.38	13.64	11.76	11.29	11.06	10.48	10.18	9.95
90.0	17.73	14.63	11.59	11.00	10.77	10.42	10.18	10.01	9.89
135.0	12.64	12.23	11.88	11.53	11.18	10.53	10.24	10.07	9.95
180.0	12.11	11.70	11.35	11.18	10.59	10.24	10.12	9.95	9.71
225.0	12.58	11.41	11.18	10.89	10.42	10.12	9.95	9.77	9.83
270.0	17.50	14.10	11.41	11.12	10.89	10.48	10.18	9.95	9.77
315.0	12.29	11.82	11.41	11.00	10.83	10.24	10.01	10.01	9.77
360.0	12.47	12.00	11.53	11.35	11.12	10.48	10.12	10.01	9.89

Intensity data(cd)

C/γ(°)	90.0
0.0	9.77
45.0	9.77
90.0	9.77
135.0	9.77
180.0	9.89
225.0	9.77
270.0	9.95
315.0	9.83
360.0	9.77