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NATA

Client:
LumCAT: 2-2639-L
Luminaire: 92.70.429.00
Report No: 20231110-B017
Ballast type: AC

Test No: 20231010-C017	Voltage(V): 35.940
LampCAT: CREE CXA1830 LES14	Current(A): 0.530
Lamp flux(lm): 1997.0	Power (W): 19.048
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1901.79, Efficiency(%): 95.23% , Luminous Efficacy(lm/W): 99.84
Central intensity(cd): 8669.564, Maximum intensity(cd): 8669.564
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.4
[C90/270]Total=19.4
Field angle(10%Imax): [C0/180]Total=52.2
[C90/270]Total=52.2
Beam angle of C0 plane : 19.42
Aveage BeamAngle(IEC 61341):19.42
Maximum s/h(1/2): C0_180=0.33 C90_270=0.33
Maximum s/h(1/4): C0_180=0.37 C90_270=0.37
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 95.23%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.975%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8669.564	0.000	0	0.00%	0.00%
1.0	8597.604	8.262	8.262	0.41%	0.43%
2.0	8396.463	24.391	32.654	1.22%	1.72%
3.0	8089.666	39.429	72.083	1.97%	3.79%
4.0	7613.348	52.563	124.646	2.63%	6.55%
5.0	7125.268	63.405	188.051	3.17%	9.89%
6.0	6541.149	71.821	259.871	3.60%	13.66%
7.0	5903.752	77.245	337.117	3.87%	17.73%
8.0	5318.595	80.316	417.433	4.02%	21.95%
9.0	4718.493	81.345	498.778	4.07%	26.23%
10.0	4179.349	80.522	579.3	4.03%	30.46%
11.0	3666.014	78.391	657.691	3.93%	34.58%
12.0	3248.371	75.584	733.276	3.78%	38.56%
13.0	2865.808	72.560	805.835	3.63%	42.37%
14.0	2518.879	68.924	874.759	3.45%	46.00%
15.0	2251.245	65.486	940.245	3.28%	49.44%
16.0	1988.384	62.122	1002.368	3.11%	52.71%
17.0	1787.243	58.797	1061.164	2.94%	55.80%
18.0	1618.761	56.158	1117.322	2.81%	58.75%
19.0	1477.747	53.873	1171.195	2.70%	61.58%
20.0	1329.324	51.377	1222.572	2.57%	64.29%
21.0	1217.475	48.904	1271.476	2.45%	66.86%
22.0	1138.291	47.340	1318.816	2.37%	69.35%
23.0	1068.643	46.307	1365.123	2.32%	71.78%
24.0	996.074	45.142	1410.266	2.26%	74.15%
25.0	932.584	43.853	1454.119	2.20%	76.46%
26.0	871.916	42.595	1496.714	2.13%	78.70%
27.0	809.290	41.131	1537.846	2.06%	80.86%
28.0	738.216	39.180	1577.025	1.96%	82.92%
29.0	668.685	36.809	1613.834	1.84%	84.86%
30.0	592.761	34.059	1647.892	1.71%	86.65%
31.0	515.619	30.845	1678.737	1.54%	88.27%
32.0	442.296	27.443	1706.18	1.37%	89.71%
33.0	370.689	23.951	1730.131	1.20%	90.97%
34.0	304.991	20.448	1750.579	1.02%	92.05%
35.0	254.038	17.361	1767.94	0.87%	92.96%
36.0	198.235	14.400	1782.341	0.72%	93.72%
37.0	142.798	11.123	1793.464	0.56%	94.30%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	95.845	7.966	1801.429	0.40%	94.72%
39.0	73.101	5.767	1807.196	0.29%	95.03%
40.0	58.765	4.599	1811.795	0.23%	95.27%
41.0	51.479	3.926	1815.72	0.20%	95.47%
42.0	46.255	3.551	1819.271	0.18%	95.66%
43.0	42.193	3.276	1822.548	0.16%	95.83%
44.0	38.402	3.042	1825.59	0.15%	95.99%
45.0	35.537	2.842	1828.431	0.14%	96.14%
46.0	32.977	2.679	1831.111	0.13%	96.28%
47.0	31.005	2.545	1833.655	0.13%	96.42%
48.0	29.414	2.442	1836.098	0.12%	96.55%
49.0	28.023	2.359	1838.456	0.12%	96.67%
50.0	26.923	2.291	1840.747	0.11%	96.79%
51.0	26.044	2.241	1842.988	0.11%	96.91%
52.0	25.317	2.204	1845.192	0.11%	97.02%
53.0	24.826	2.181	1847.373	0.11%	97.14%
54.0	24.556	2.177	1849.55	0.11%	97.25%
55.0	24.487	2.189	1851.739	0.11%	97.37%
56.0	24.695	2.222	1853.961	0.11%	97.49%
57.0	24.951	2.270	1856.231	0.11%	97.60%
58.0	25.207	2.319	1858.551	0.12%	97.73%
59.0	25.220	2.358	1860.908	0.12%	97.85%
60.0	24.812	2.364	1863.272	0.12%	97.97%
61.0	23.712	2.316	1865.588	0.12%	98.10%
62.0	22.169	2.211	1867.799	0.11%	98.21%
63.0	20.183	2.060	1869.858	0.10%	98.32%
64.0	18.073	1.877	1871.736	0.09%	98.42%
65.0	16.336	1.703	1873.438	0.09%	98.51%
66.0	15.049	1.566	1875.004	0.08%	98.59%
67.0	14.177	1.470	1876.474	0.07%	98.67%
68.0	13.569	1.406	1877.88	0.07%	98.74%
69.0	13.126	1.362	1879.241	0.07%	98.81%
70.0	12.690	1.326	1880.567	0.07%	98.88%
71.0	12.323	1.293	1881.86	0.06%	98.95%
72.0	11.991	1.264	1883.124	0.06%	99.02%
73.0	11.680	1.238	1884.362	0.06%	99.08%
74.0	11.375	1.212	1885.574	0.06%	99.15%
75.0	11.098	1.187	1886.762	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.829	1.164	1887.925	0.06%	99.27%
77.0	10.538	1.139	1889.065	0.06%	99.33%
78.0	10.317	1.116	1890.181	0.06%	99.39%
79.0	10.047	1.094	1891.275	0.05%	99.45%
80.0	9.798	1.070	1892.345	0.05%	99.50%
81.0	9.555	1.047	1893.392	0.05%	99.56%
82.0	9.272	1.021	1894.413	0.05%	99.61%
83.0	9.023	0.995	1895.407	0.05%	99.66%
84.0	8.787	0.970	1896.377	0.05%	99.72%
85.0	8.587	0.948	1897.326	0.05%	99.77%
86.0	8.393	0.928	1898.254	0.05%	99.81%
87.0	8.227	0.910	1899.163	0.05%	99.86%
88.0	8.040	0.891	1900.054	0.04%	99.91%
89.0	7.895	0.873	1900.928	0.04%	99.95%
90.0	7.812	0.861	1901.789	0.04%	100.00%

Zonal flux distribution table

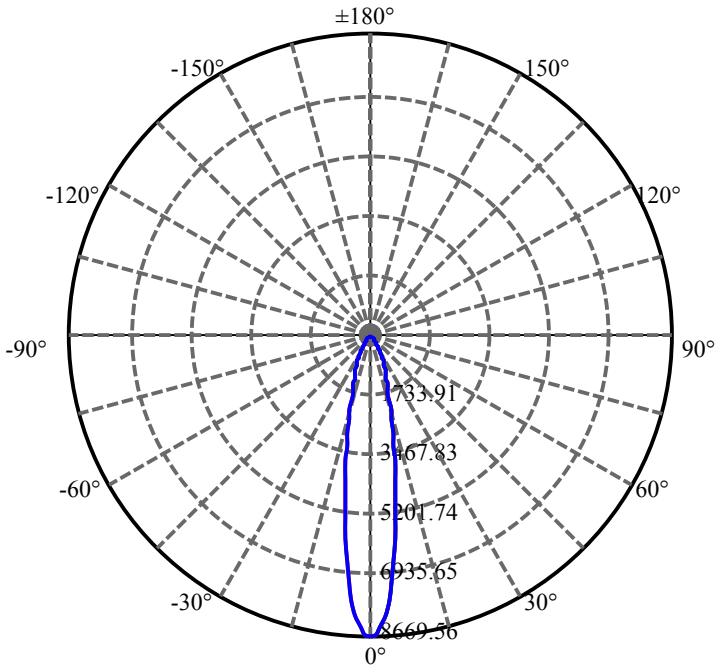
ZONAL LUMEN SUMMARY

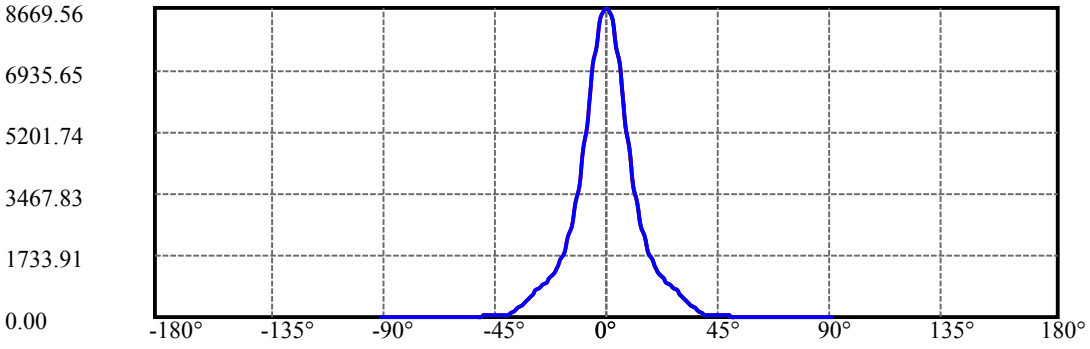
Zone	Lumens	%Lamp	%Fixt
0-30	1647.89	82.52%	86.65%
0-40	1811.79	90.72%	95.27%
0-60	1863.27	93.30%	97.97%
0-90	1900.93	95.19%	99.95%
0-120	1900.93	95.19%	99.95%
0-180	1901.79	95.23%	100.00%
60-90	37.66	1.89%	1.98%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.60	1521.43	76.18%	80.00%

ZONAL LUMEN SUMMARY

0-10	579.30
10-20	643.27
20-30	425.32
30-40	163.90
40-50	28.95
50-60	22.52
60-70	17.30
70-80	11.78
80-90	8.58
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):

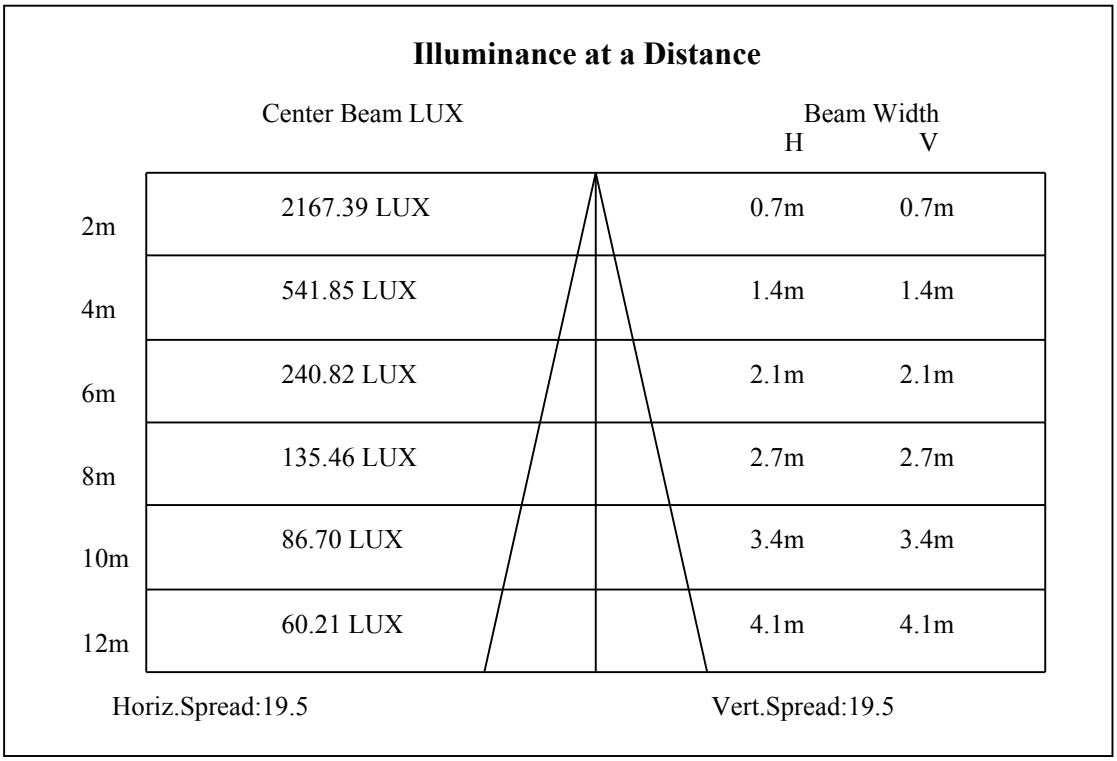
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.1 Right:26.1
:C90/270Left:26.1 Right:26.1

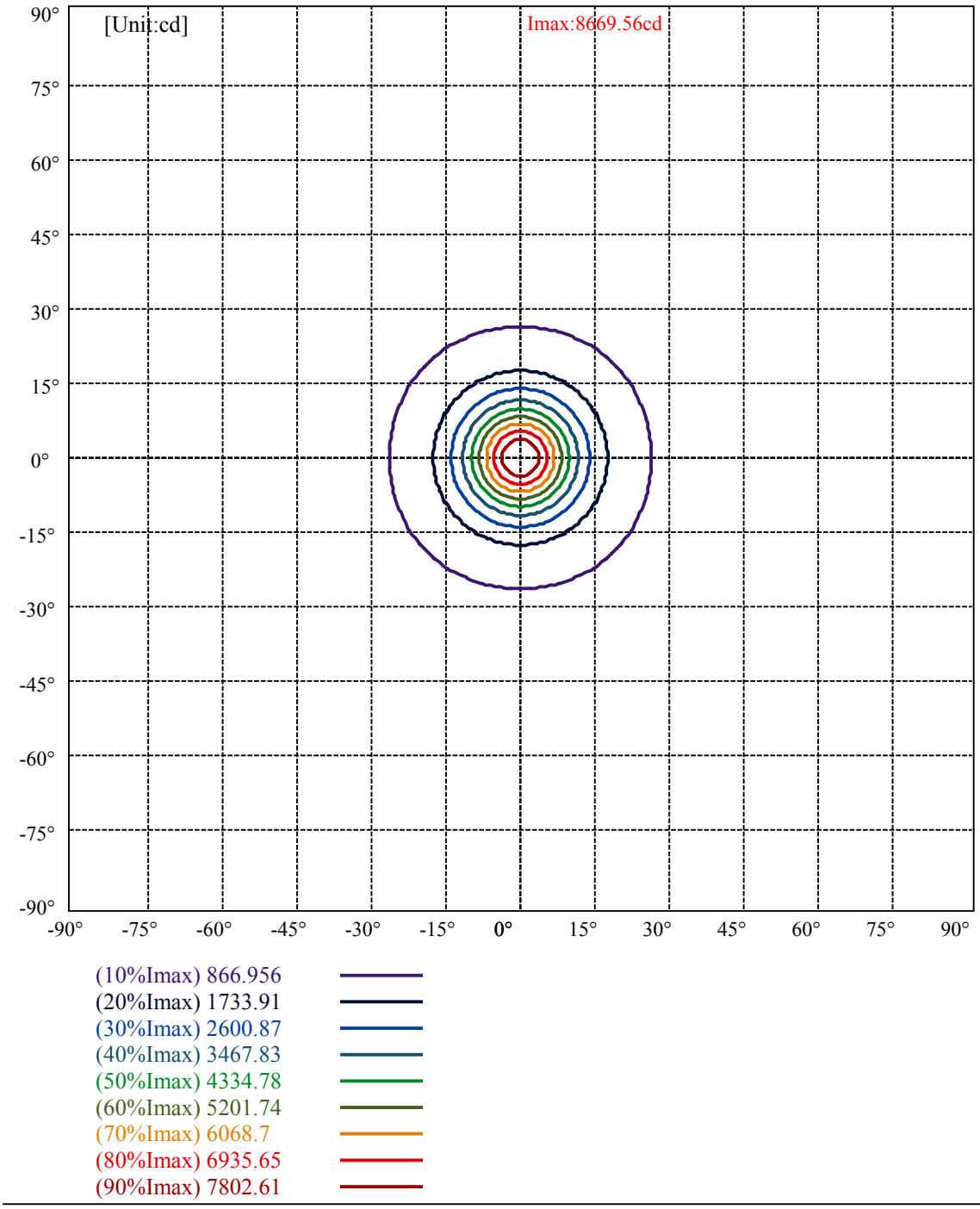
Beam Angle(50%Imax):C0/180Left:9.7 Right:9.7
:C90/270Left:9.7 Right:9.7

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

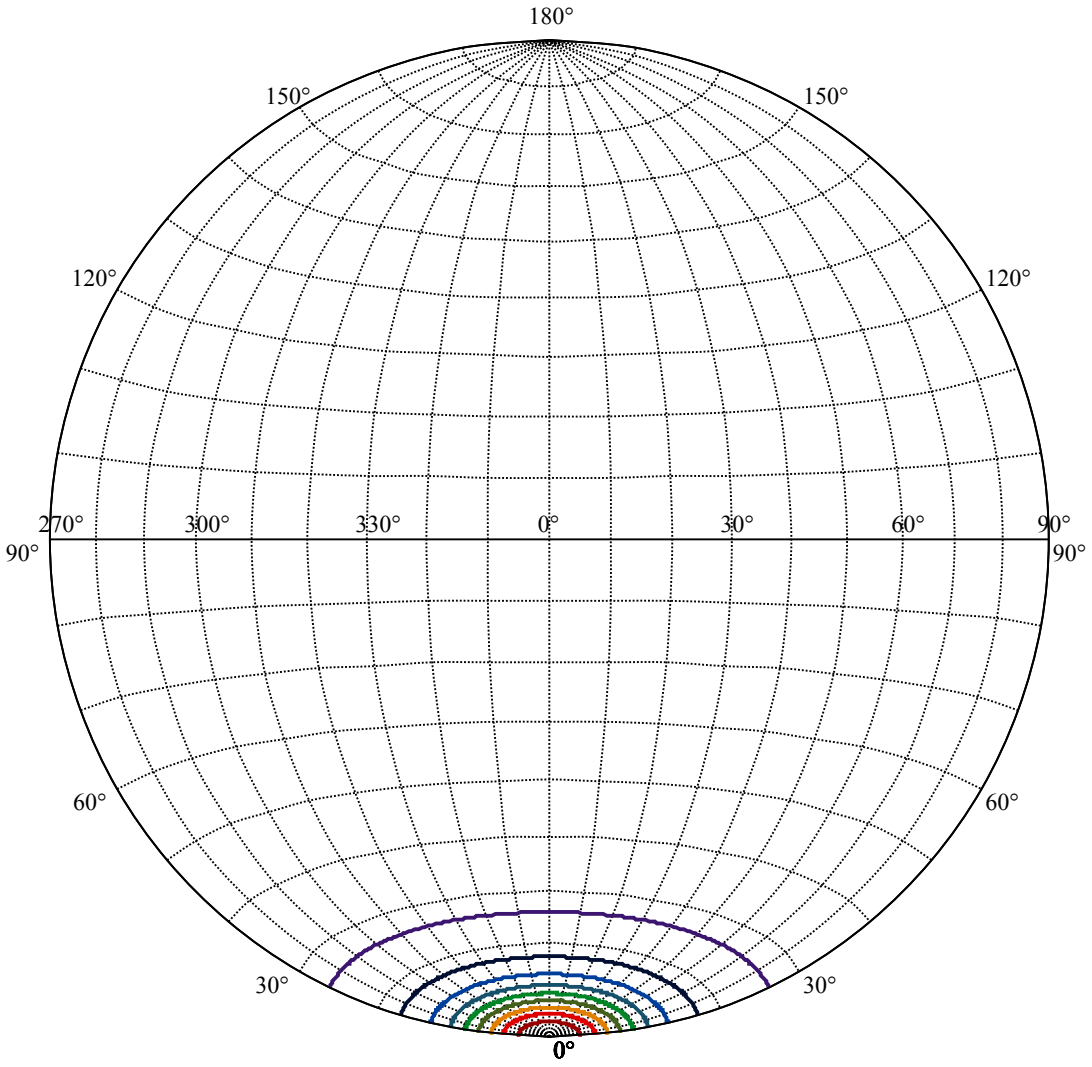


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8669.56

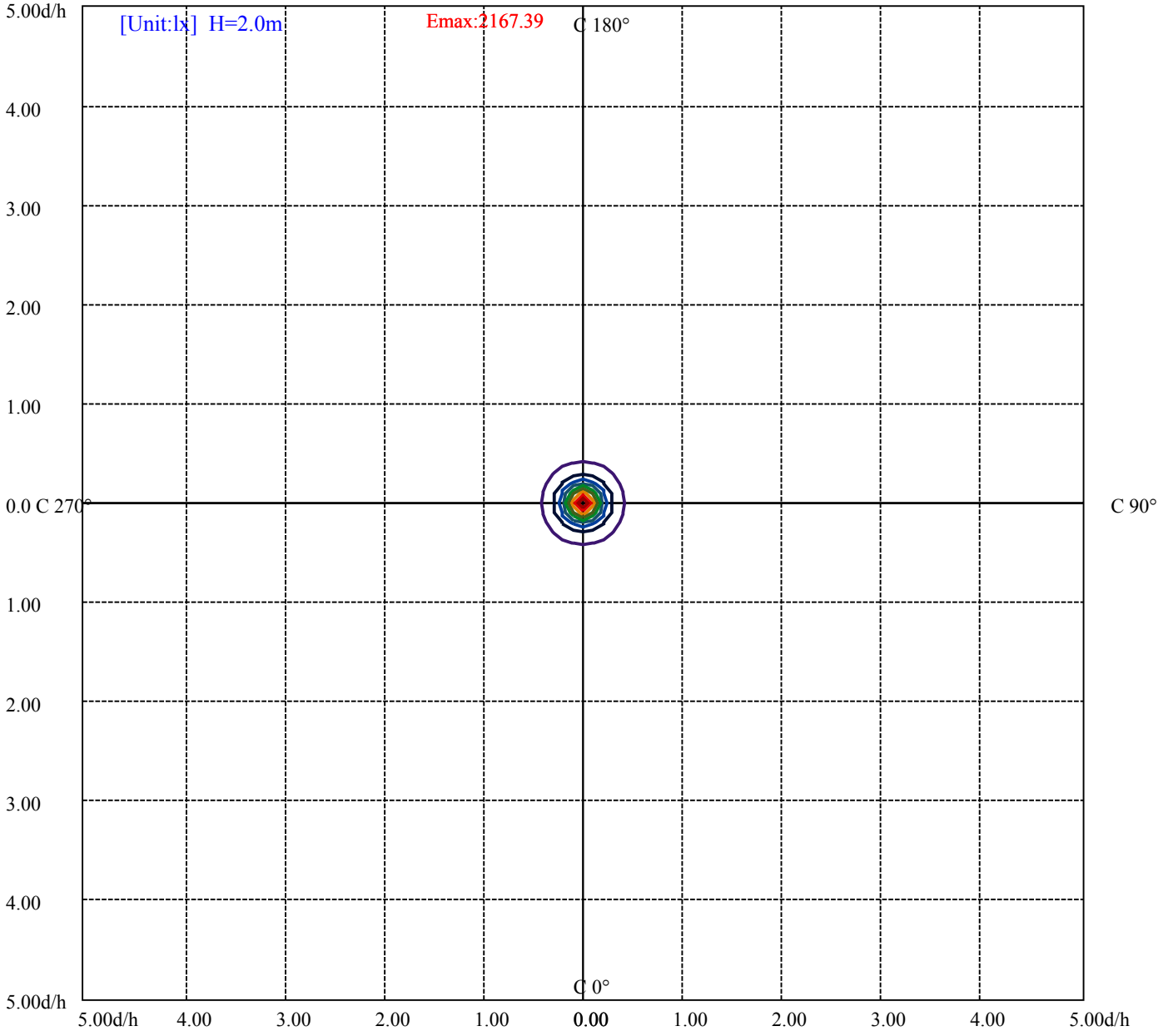
(10%Imax) 866.956
(20%Imax) 1733.91
(30%Imax) 2600.87
(40%Imax) 3467.83
(50%Imax) 4334.78
(60%Imax) 5201.74
(70%Imax) 6068.7
(80%Imax) 6935.65
(90%Imax) 7802.61

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram

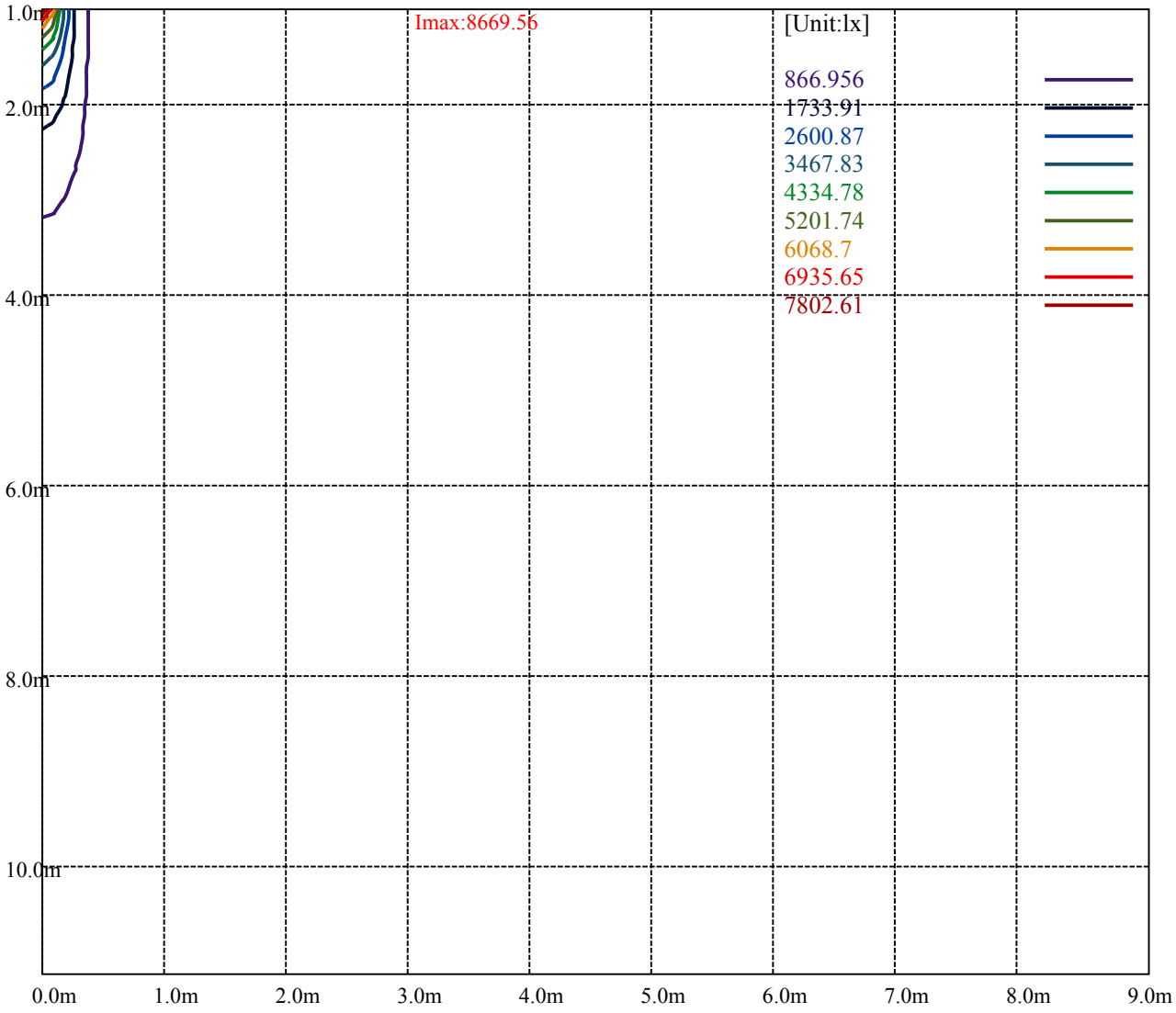


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/10
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

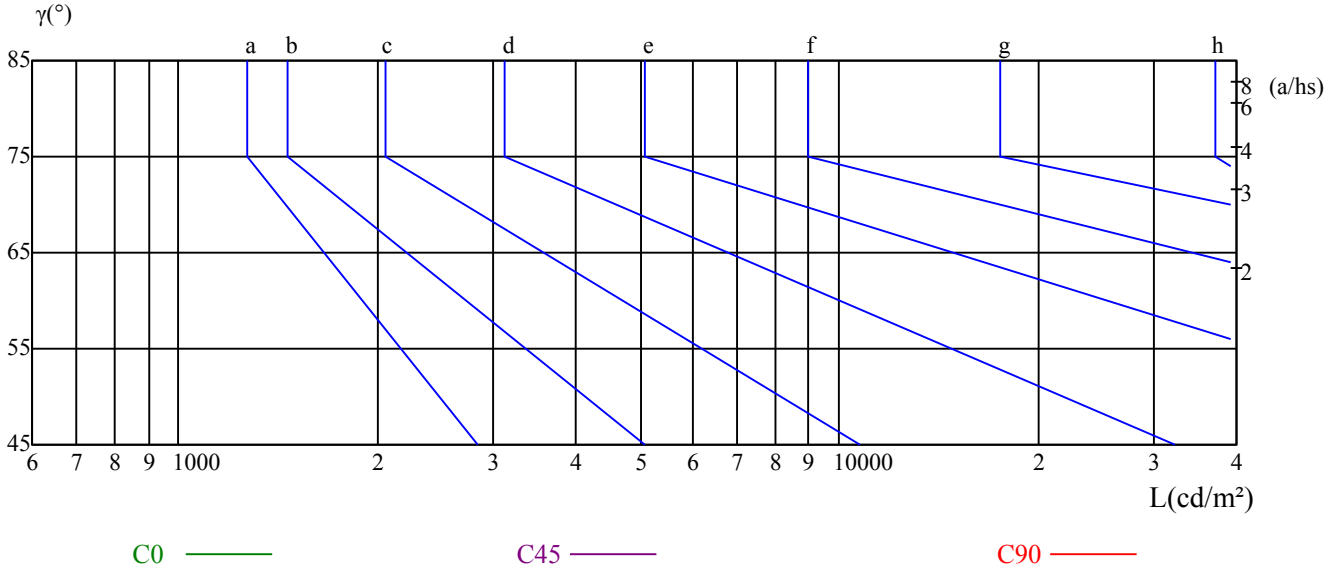
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

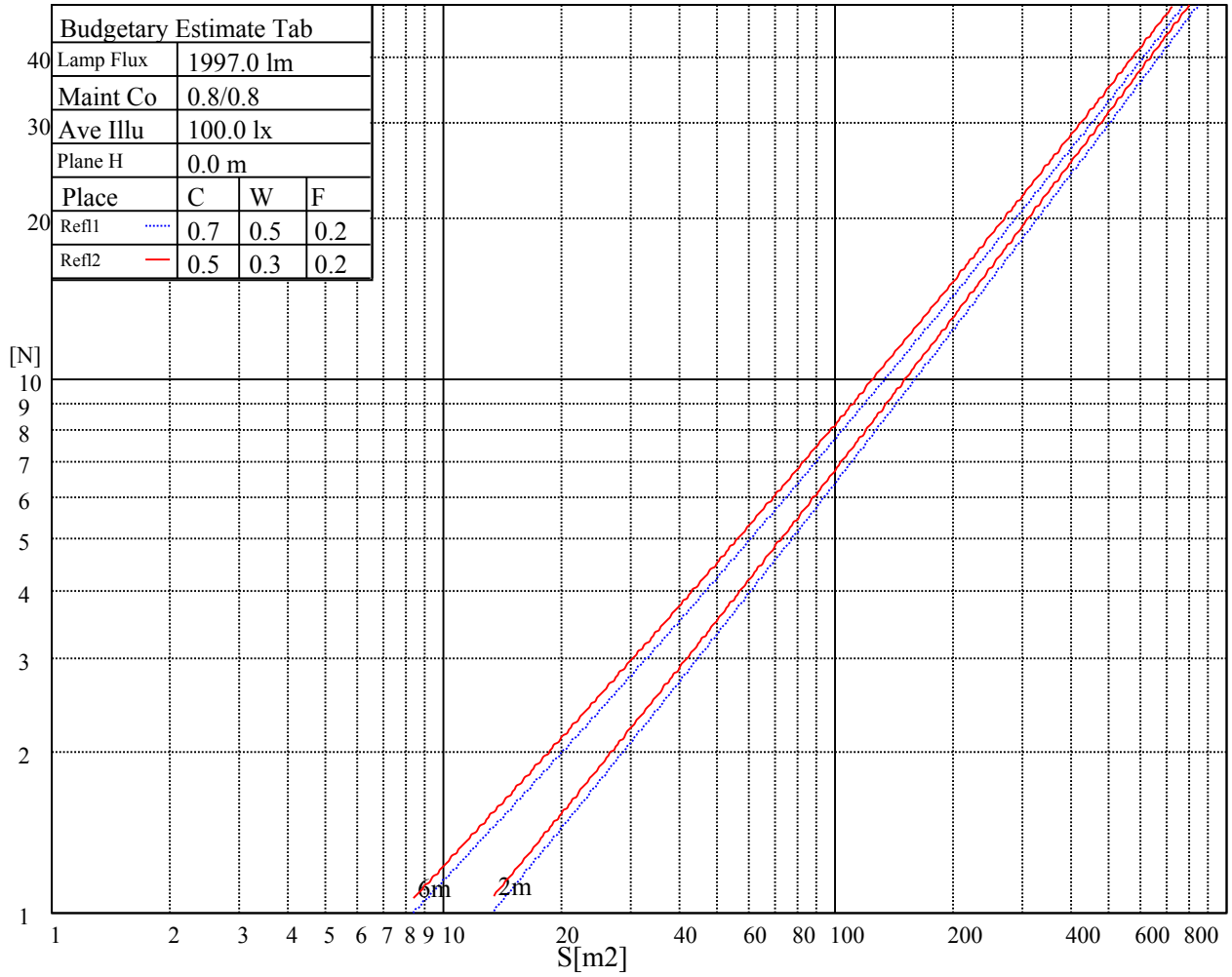


UGR Glare

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

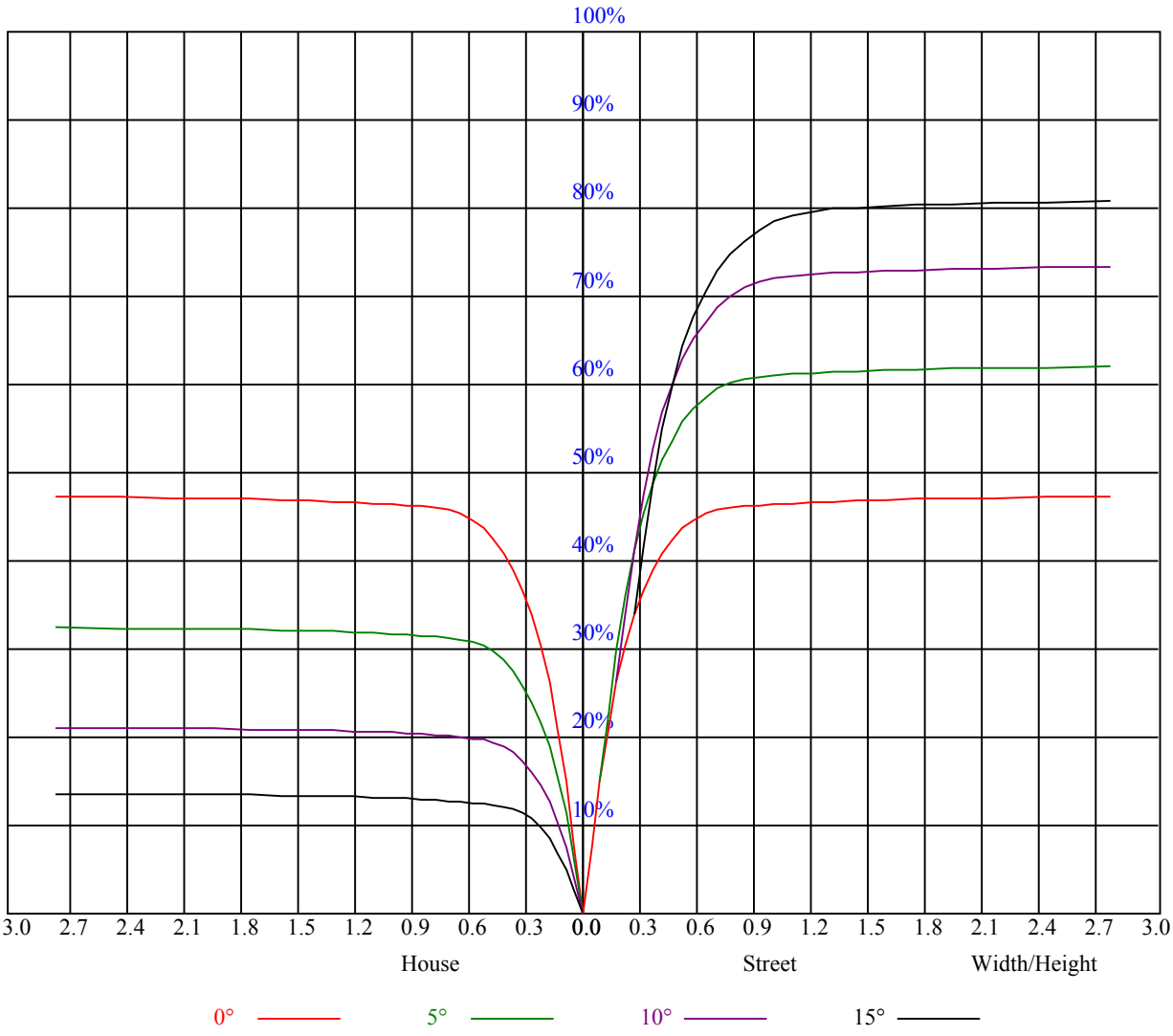


Equipment: GMS1980 Date: 2023/10/10 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.13	1.13	1.13	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.06	1.04	1.02	1.04	1.02	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.91	0.89	0.88	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.84	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.77	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.72
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.72	0.69	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.67
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.65
10	0.72	0.67	0.64	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/10	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

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	8646.73	8399.30	8089.87	7673.61	7042.03	6487.94	5922.23	5338.80	4643.56
45.0	8705.96	8625.70	8403.73	8077.14	7535.23	7027.08	6477.42	5767.24	5208.16
90.0	8608.54	8385.46	7959.79	7509.77	6858.26	6293.10	5741.22	5043.21	4511.82
135.0	8717.03	8601.34	8390.44	8041.72	7490.95	6966.75	6408.23	5688.08	5133.99
180.0	8646.73	8709.83	8660.57	8490.63	8124.75	7711.81	7094.62	6539.42	5960.97
225.0	8705.96	8663.89	8439.15	8142.46	7731.74	7235.21	6547.72	5970.94	5377.55
270.0	8608.54	8709.28	8706.51	8527.17	8249.85	7855.17	7391.86	6708.25	6141.98
315.0	8717.03	8686.03	8521.63	8254.83	7873.99	7425.08	6745.89	6174.09	5570.73
360.0	8646.73	8399.30	8089.87	7673.61	7042.03	6487.94	5922.23	5338.80	4643.56

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4140.39	3677.64	3175.03	2819.66	2508.02	2186.97	1966.66	1773.47	1582.50
45.0	4669.02	4166.41	3604.02	3196.06	2839.03	2519.09	2250.62	1966.10	1776.80
90.0	4024.15	3467.29	3078.71	2725.00	2420.56	2102.27	1889.16	1705.94	1558.70
135.0	4463.11	3985.96	3546.45	3061.55	2726.11	2424.43	2163.16	1881.97	1706.50
180.0	5235.84	4685.63	4168.07	3719.71	3208.79	2848.99	2544.55	2263.91	1976.07
225.0	4799.66	4144.82	3690.92	3285.18	2841.80	2542.34	2271.66	1989.35	1796.72
270.0	5558.55	4998.37	4336.35	3855.88	3428.55	2969.67	2639.76	2278.30	2046.92
315.0	4857.22	4308.67	3728.56	3323.93	2953.61	2557.28	2284.39	2048.03	1853.74
360.0	4140.39	3677.64	3175.03	2819.66	2508.02	2186.97	1966.66	1773.47	1582.50

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1455.74	1348.36	1190.60	1086.31	1068.05	1000.07	939.30	871.93	813.70
45.0	1583.06	1456.85	1345.04	1227.69	1141.89	1068.82	986.35	926.01	871.76
90.0	1406.48	1301.31	1087.03	1087.03	1036.77	960.22	903.70	852.83	795.04
135.0	1558.70	1433.60	1297.43	1206.10	1124.73	1033.95	969.19	911.06	842.98
180.0	1797.28	1620.14	1456.85	1345.59	1245.95	1131.93	1056.09	990.22	914.39
225.0	1638.41	1469.58	1356.11	1104.19	1104.19	1066.28	997.42	936.25	882.34
270.0	1864.25	1681.59	1509.44	1395.96	1292.45	1195.58	1094.84	1028.97	965.31
315.0	1646.16	1510.54	1392.09	1286.92	1092.29	1092.29	1021.72	943.39	889.81
360.0	1455.74	1348.36	1190.60	1086.31	1068.05	1000.07	939.30	871.93	813.70

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	748.82	661.75	590.57	502.67	431.87	363.62	298.30	223.30	170.54
45.0	813.64	731.17	661.97	593.34	524.70	438.35	373.58	309.37	293.87
90.0	712.73	643.71	575.07	505.71	419.25	352.71	288.95	229.94	165.95
135.0	782.09	715.11	627.65	559.02	489.27	421.19	339.26	292.77	292.77
180.0	859.59	802.02	741.13	656.99	583.93	515.29	441.11	356.98	294.98
225.0	812.92	752.37	683.62	612.38	525.31	437.85	371.59	306.94	234.42
270.0	908.85	839.11	777.11	691.31	619.90	549.05	460.49	392.96	328.19
315.0	835.67	760.50	692.36	620.68	530.73	460.32	392.24	327.69	251.58
360.0	748.82	661.75	590.57	502.67	431.87	363.62	298.30	223.30	170.54

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	125.76	92.55	67.03	57.68	52.09	47.60	43.07	39.41	36.64
45.0	220.69	129.58	87.96	69.52	58.45	52.92	48.66	44.56	39.91
90.0	122.66	83.25	65.15	57.35	50.70	46.55	42.73	39.19	35.48
135.0	162.57	108.33	77.83	61.00	52.20	47.22	42.57	39.47	36.48
180.0	294.98	165.78	122.61	89.34	63.93	55.19	48.10	43.84	40.41
225.0	181.45	135.17	97.70	73.51	57.96	51.81	46.66	41.68	38.14
270.0	281.69	281.69	142.76	104.18	76.39	58.45	52.25	47.11	42.18
315.0	196.06	146.02	105.73	72.24	58.40	52.09	46.00	42.29	37.97
360.0	125.76	92.55	67.03	57.68	52.09	47.60	43.07	39.41	36.64

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	33.82	32.05	30.50	28.89	27.84	26.96	26.07	25.57	25.30
45.0	37.09	34.65	32.66	31.00	29.17	28.01	27.01	26.02	25.46
90.0	33.16	31.22	29.61	27.95	26.85	25.91	25.08	24.63	24.36
135.0	33.88	31.39	29.84	28.51	27.34	26.18	25.41	24.85	24.47
180.0	37.36	33.93	31.88	30.28	28.89	27.51	26.63	25.85	25.24
225.0	35.15	32.11	30.28	28.78	27.29	26.18	25.41	24.58	24.13
270.0	38.58	35.54	32.60	30.61	28.73	27.57	26.57	25.74	24.91
315.0	35.26	32.94	30.67	29.28	28.06	27.07	26.18	25.30	24.74
360.0	33.82	32.05	30.50	28.89	27.84	26.96	26.07	25.57	25.30

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.24	25.30	25.68	25.91	25.91	25.35	24.52	22.53	20.48
45.0	24.96	24.91	24.96	25.35	25.57	25.52	25.24	23.91	22.25
90.0	24.41	24.52	24.91	25.02	25.02	24.63	23.14	21.42	19.48
135.0	24.36	24.52	25.08	25.52	25.91	25.96	25.35	24.13	21.86
180.0	24.69	24.52	24.63	24.85	25.19	25.68	25.74	25.35	24.41
225.0	23.86	23.69	23.75	23.91	24.24	24.30	24.08	23.30	22.20
270.0	24.41	24.08	23.91	24.02	24.30	24.52	24.69	24.36	23.64
315.0	24.52	24.36	24.63	25.02	25.52	25.79	25.74	24.69	23.03
360.0	25.24	25.30	25.68	25.91	25.91	25.35	24.52	22.53	20.48

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	18.49	16.27	15.22	14.39	13.67	13.28	12.84	12.57	12.07
45.0	20.20	18.27	16.05	14.95	14.17	13.56	13.17	12.68	12.29
90.0	17.60	15.44	14.45	13.78	13.23	12.73	12.40	12.01	11.68
135.0	19.48	17.55	15.94	14.56	13.95	13.45	13.06	12.57	12.23
180.0	22.64	20.43	18.43	16.61	15.06	14.28	13.73	13.17	12.84
225.0	19.98	18.10	16.00	14.95	14.12	13.56	13.06	12.68	12.40
270.0	22.03	20.15	18.21	15.94	14.95	14.06	13.56	13.01	12.62
315.0	21.03	18.38	16.38	15.22	14.28	13.62	13.17	12.84	12.45
360.0	18.49	16.27	15.22	14.39	13.67	13.28	12.84	12.57	12.07

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.85	11.51	11.24	10.96	10.68	10.41	10.19	9.96	9.63
45.0	12.01	11.68	11.35	11.13	10.85	10.63	10.35	10.07	9.91
90.0	11.40	11.07	10.85	10.57	10.41	10.07	9.85	9.69	9.41
135.0	11.85	11.57	11.29	11.02	10.74	10.52	10.30	10.02	9.74
180.0	12.45	12.12	11.79	11.51	11.13	10.90	10.68	10.30	10.07
225.0	12.01	11.68	11.40	11.13	10.96	10.57	10.41	10.07	9.85
270.0	12.29	12.01	11.62	11.35	11.07	10.68	10.46	10.19	10.02
315.0	12.07	11.79	11.46	11.13	10.79	10.52	10.30	10.07	9.74
360.0	11.85	11.51	11.24	10.96	10.68	10.41	10.19	9.96	9.63

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.47	9.13	8.97	8.69	8.52	8.36	8.14	7.97	7.92
45.0	9.58	9.30	8.97	8.80	8.58	8.36	8.25	8.03	7.86
90.0	9.13	8.91	8.64	8.47	8.36	8.14	7.97	7.80	7.75
135.0	9.52	9.13	8.91	8.64	8.47	8.30	8.19	7.92	7.75
180.0	9.80	9.52	9.24	8.97	8.80	8.58	8.41	8.19	8.08
225.0	9.63	9.30	9.08	8.86	8.58	8.41	8.25	8.08	7.92
270.0	9.74	9.52	9.24	9.02	8.75	8.52	8.36	8.25	7.97
315.0	9.58	9.35	9.13	8.86	8.64	8.47	8.25	8.08	7.92
360.0	9.47	9.13	8.97	8.69	8.52	8.36	8.14	7.97	7.92

Intensity data(cd)

C/γ(°)	90.0
0.0	7.86
45.0	7.80
90.0	7.80
135.0	7.80
180.0	7.86
225.0	7.80
270.0	7.80
315.0	7.75
360.0	7.86