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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.412.00
Report No: 20231009-B002
Ballast type: AC

Test No: 20231009-C002	Voltage(V): 34.140
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
Lamp flux(lm): 2091.1	Power (W): 15.397
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1906.97, Efficiency(%): 91.19% , Luminous Efficacy(lm/W): 123.85
Central intensity(cd): 6589.929, Maximum intensity(cd): 6589.929
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.4
[C90/270]Total=25.4
Field angle(10%Imax): [C0/180]Total=56.0
[C90/270]Total=56.0
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.19%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.926%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6589.929	0.000	0	0.00%	0.00%
1.0	6555.956	6.290	6.29	0.30%	0.33%
2.0	6474.240	18.702	24.992	0.89%	1.31%
3.0	6349.625	30.670	55.663	1.47%	2.92%
4.0	6159.762	41.873	97.536	2.00%	5.11%
5.0	5940.009	52.053	149.588	2.49%	7.84%
6.0	5686.904	61.103	210.691	2.92%	11.05%
7.0	5379.553	68.689	279.38	3.28%	14.65%
8.0	5044.249	74.601	353.981	3.57%	18.56%
9.0	4678.362	78.796	432.778	3.77%	22.69%
10.0	4278.570	81.057	513.835	3.88%	26.95%
11.0	3905.210	81.773	595.607	3.91%	31.23%
12.0	3547.903	81.473	677.081	3.90%	35.51%
13.0	3208.862	80.186	757.266	3.83%	39.71%
14.0	2904.486	78.250	835.517	3.74%	43.81%
15.0	2639.689	76.113	911.63	3.64%	47.81%
16.0	2382.848	73.594	985.224	3.52%	51.66%
17.0	2153.407	70.642	1055.865	3.38%	55.37%
18.0	1943.340	67.546	1123.412	3.23%	58.91%
19.0	1760.950	64.447	1187.859	3.08%	62.29%
20.0	1579.114	61.132	1248.991	2.92%	65.50%
21.0	1385.750	56.931	1305.923	2.72%	68.48%
22.0	1232.310	52.611	1358.534	2.52%	71.24%
23.0	1144.380	49.869	1408.403	2.38%	73.86%
24.0	1036.482	47.681	1456.085	2.28%	76.36%
25.0	939.890	44.938	1501.023	2.15%	78.71%
26.0	847.353	42.188	1543.211	2.02%	80.92%
27.0	755.680	39.219	1582.43	1.88%	82.98%
28.0	662.500	35.905	1618.335	1.72%	84.86%
29.0	572.924	32.322	1650.657	1.55%	86.56%
30.0	481.978	28.482	1679.139	1.36%	88.05%
31.0	398.228	24.495	1703.634	1.17%	89.34%
32.0	321.445	20.618	1724.252	0.99%	90.42%
33.0	255.630	17.001	1741.253	0.81%	91.31%
34.0	223.891	14.512	1755.765	0.69%	92.07%
35.0	166.165	12.114	1767.878	0.58%	92.71%
36.0	125.549	9.288	1777.166	0.44%	93.19%
37.0	110.050	7.684	1784.85	0.37%	93.60%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	98.799	6.971	1791.821	0.33%	93.96%
39.0	88.849	6.405	1798.226	0.31%	94.30%
40.0	79.861	5.884	1804.11	0.28%	94.61%
41.0	71.980	5.407	1809.517	0.26%	94.89%
42.0	65.255	4.986	1814.503	0.24%	95.15%
43.0	59.304	4.614	1819.118	0.22%	95.39%
44.0	54.080	4.279	1823.397	0.20%	95.62%
45.0	49.362	3.975	1827.372	0.19%	95.83%
46.0	45.459	3.708	1831.081	0.18%	96.02%
47.0	41.661	3.465	1834.546	0.17%	96.20%
48.0	38.671	3.247	1837.793	0.16%	96.37%
49.0	35.987	3.066	1840.859	0.15%	96.53%
50.0	33.613	2.902	1843.761	0.14%	96.69%
51.0	31.496	2.755	1846.515	0.13%	96.83%
52.0	29.884	2.634	1849.149	0.13%	96.97%
53.0	28.396	2.535	1851.685	0.12%	97.10%
54.0	27.061	2.444	1854.129	0.12%	97.23%
55.0	26.009	2.369	1856.498	0.11%	97.35%
56.0	24.964	2.303	1858.801	0.11%	97.47%
57.0	24.100	2.243	1861.045	0.11%	97.59%
58.0	23.193	2.187	1863.231	0.10%	97.71%
59.0	22.287	2.126	1865.358	0.10%	97.82%
60.0	21.290	2.059	1867.416	0.10%	97.93%
61.0	20.391	1.989	1869.406	0.10%	98.03%
62.0	19.491	1.922	1871.327	0.09%	98.13%
63.0	18.592	1.852	1873.18	0.09%	98.23%
64.0	17.817	1.787	1874.966	0.09%	98.32%
65.0	17.146	1.730	1876.696	0.08%	98.41%
66.0	16.461	1.677	1878.373	0.08%	98.50%
67.0	15.866	1.625	1879.999	0.08%	98.59%
68.0	15.278	1.578	1881.576	0.08%	98.67%
69.0	14.779	1.533	1883.11	0.07%	98.75%
70.0	14.184	1.488	1884.597	0.07%	98.83%
71.0	13.707	1.442	1886.039	0.07%	98.90%
72.0	13.202	1.399	1887.438	0.07%	98.98%
73.0	12.787	1.359	1888.797	0.06%	99.05%
74.0	12.351	1.322	1890.118	0.06%	99.12%
75.0	11.963	1.285	1891.403	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.597	1.251	1892.654	0.06%	99.25%
77.0	11.202	1.216	1893.869	0.06%	99.31%
78.0	10.856	1.181	1895.05	0.06%	99.37%
79.0	10.524	1.149	1896.199	0.05%	99.43%
80.0	10.178	1.116	1897.315	0.05%	99.49%
81.0	9.874	1.084	1898.399	0.05%	99.55%
82.0	9.590	1.055	1899.455	0.05%	99.61%
83.0	9.292	1.026	1900.481	0.05%	99.66%
84.0	9.036	0.999	1901.48	0.05%	99.71%
85.0	8.794	0.973	1902.453	0.05%	99.76%
86.0	8.524	0.947	1903.4	0.05%	99.81%
87.0	8.275	0.919	1904.319	0.04%	99.86%
88.0	8.123	0.898	1905.217	0.04%	99.91%
89.0	7.985	0.883	1906.1	0.04%	99.95%
90.0	7.943	0.873	1906.973	0.04%	100.00%

Zonal flux distribution table

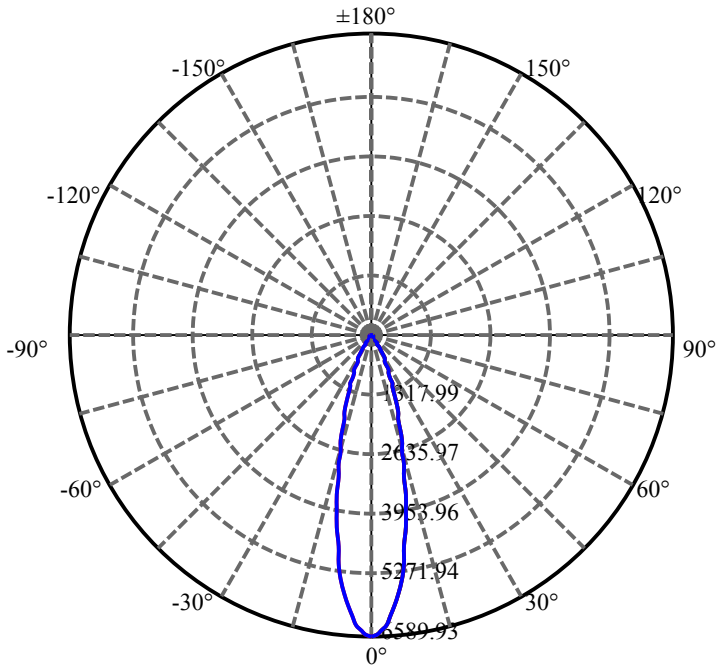
ZONAL LUMEN SUMMARY

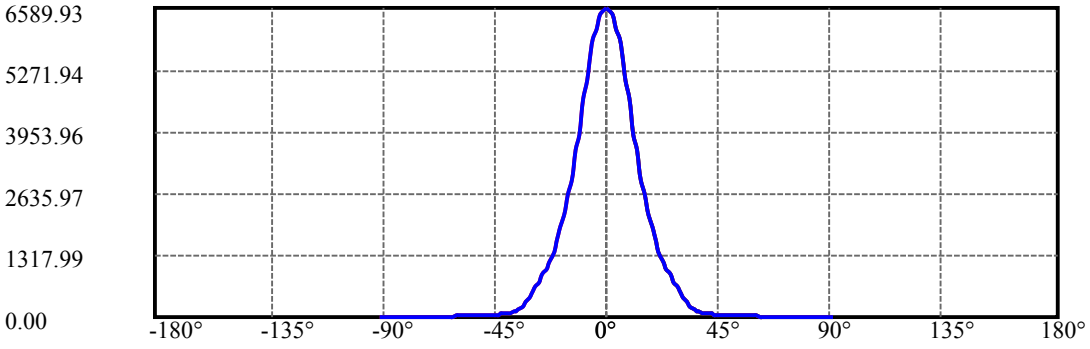
Zone	Lumens	%Lamp	%Fixt
0-30	1679.14	80.30%	88.05%
0-40	1804.11	86.27%	94.61%
0-60	1867.42	89.30%	97.93%
0-90	1906.10	91.15%	99.95%
0-120	1906.10	91.15%	99.95%
0-180	1906.97	91.19%	100.00%
60-90	38.68	1.85%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.58	1525.58	72.95%	80.00%

ZONAL LUMEN SUMMARY

0-10	513.83
10-20	735.16
20-30	430.15
30-40	124.97
40-50	39.65
50-60	23.66
60-70	17.18
70-80	12.72
80-90	8.79
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):

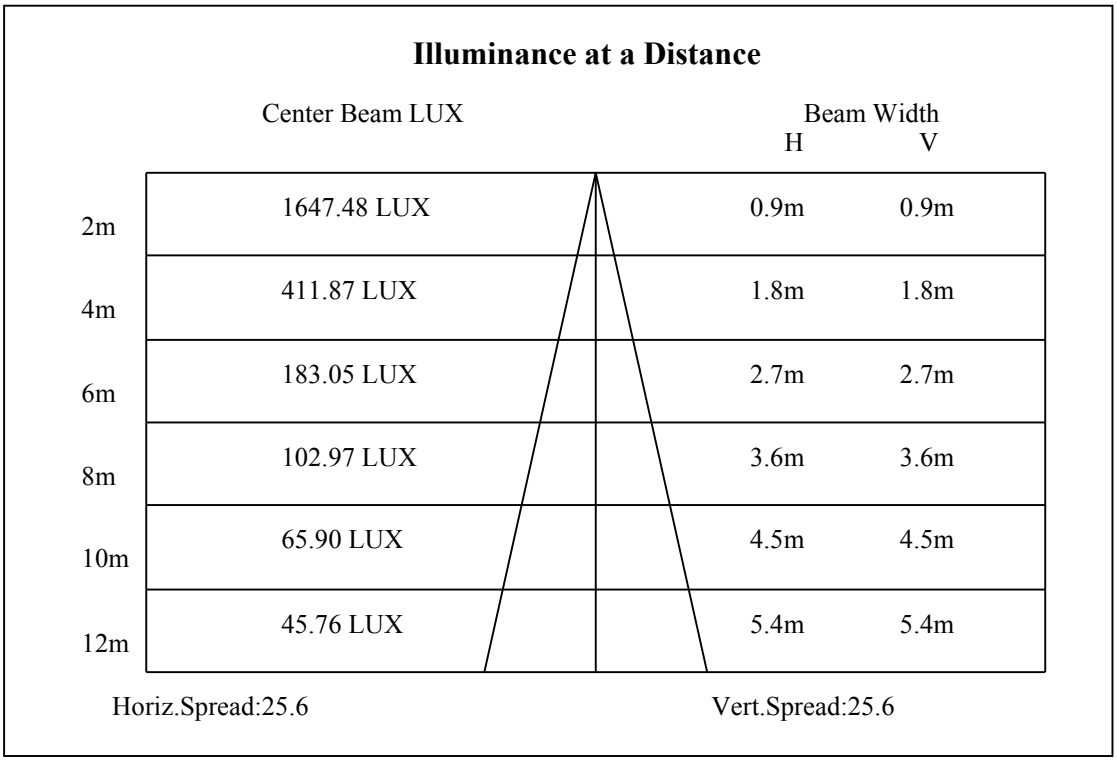
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:28.0 Right:28.0
:C90/270Left:28.0 Right:28.0

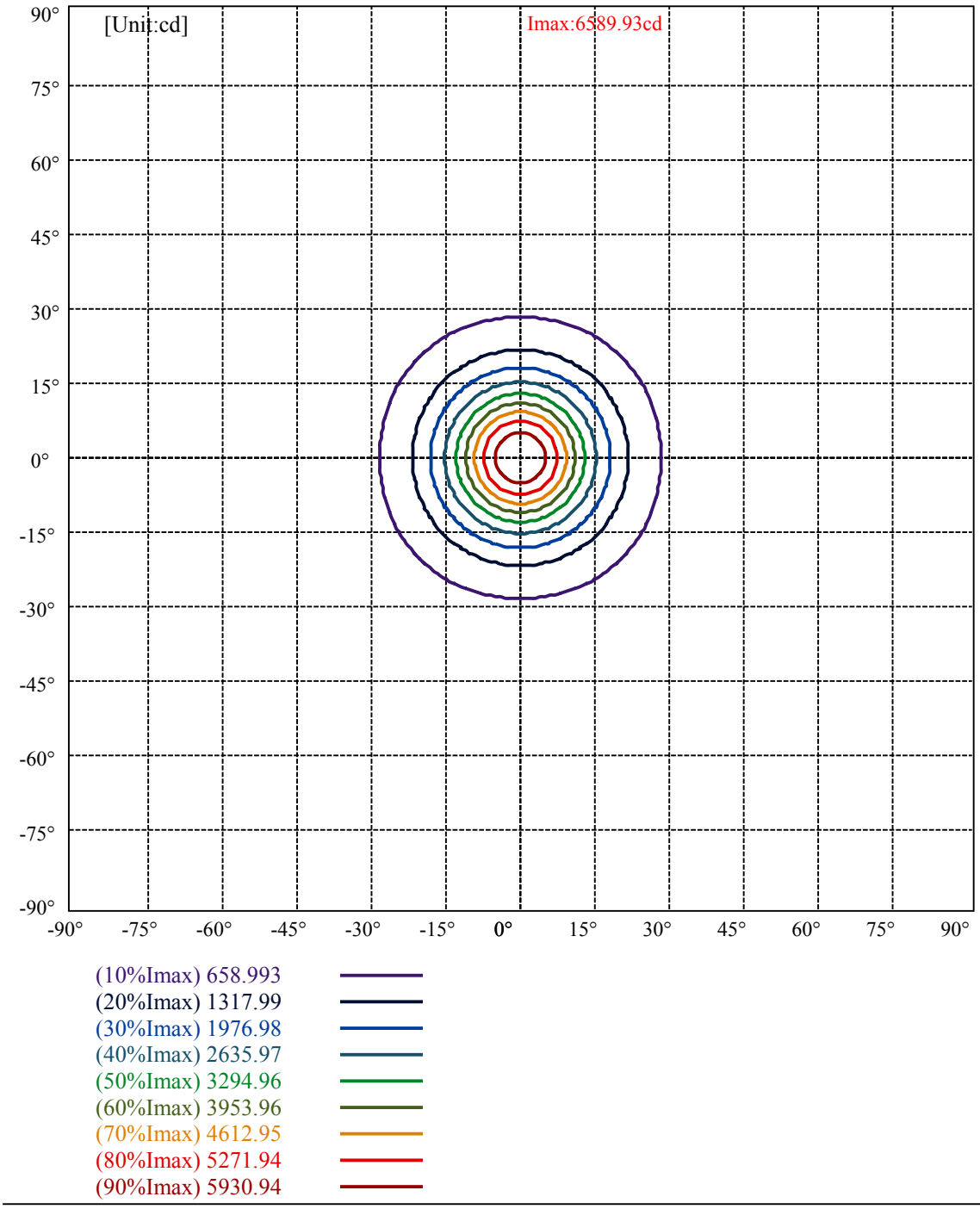
Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

Lux distance Curve



Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

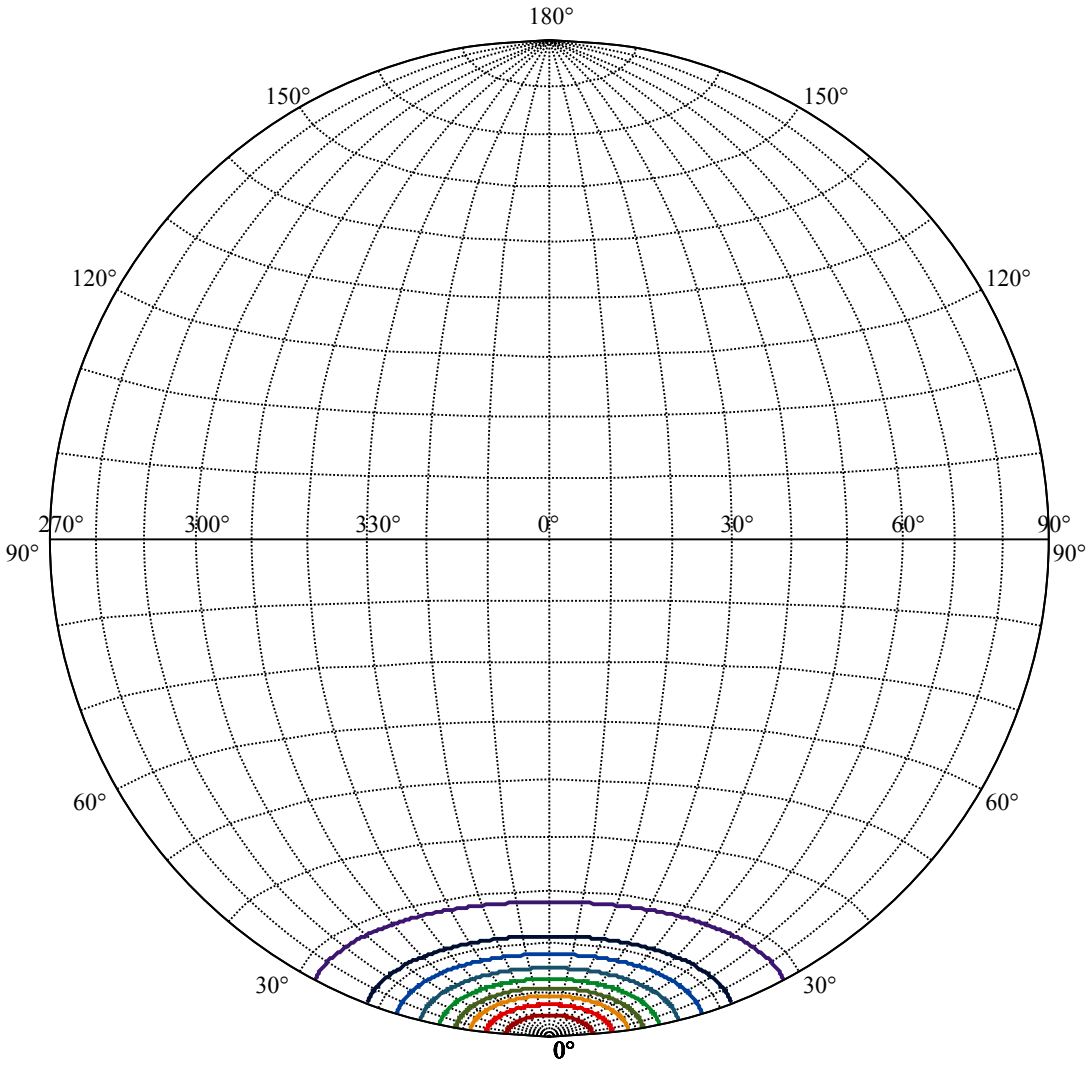


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/09
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



[Unit:cd]

Imax:6589.93

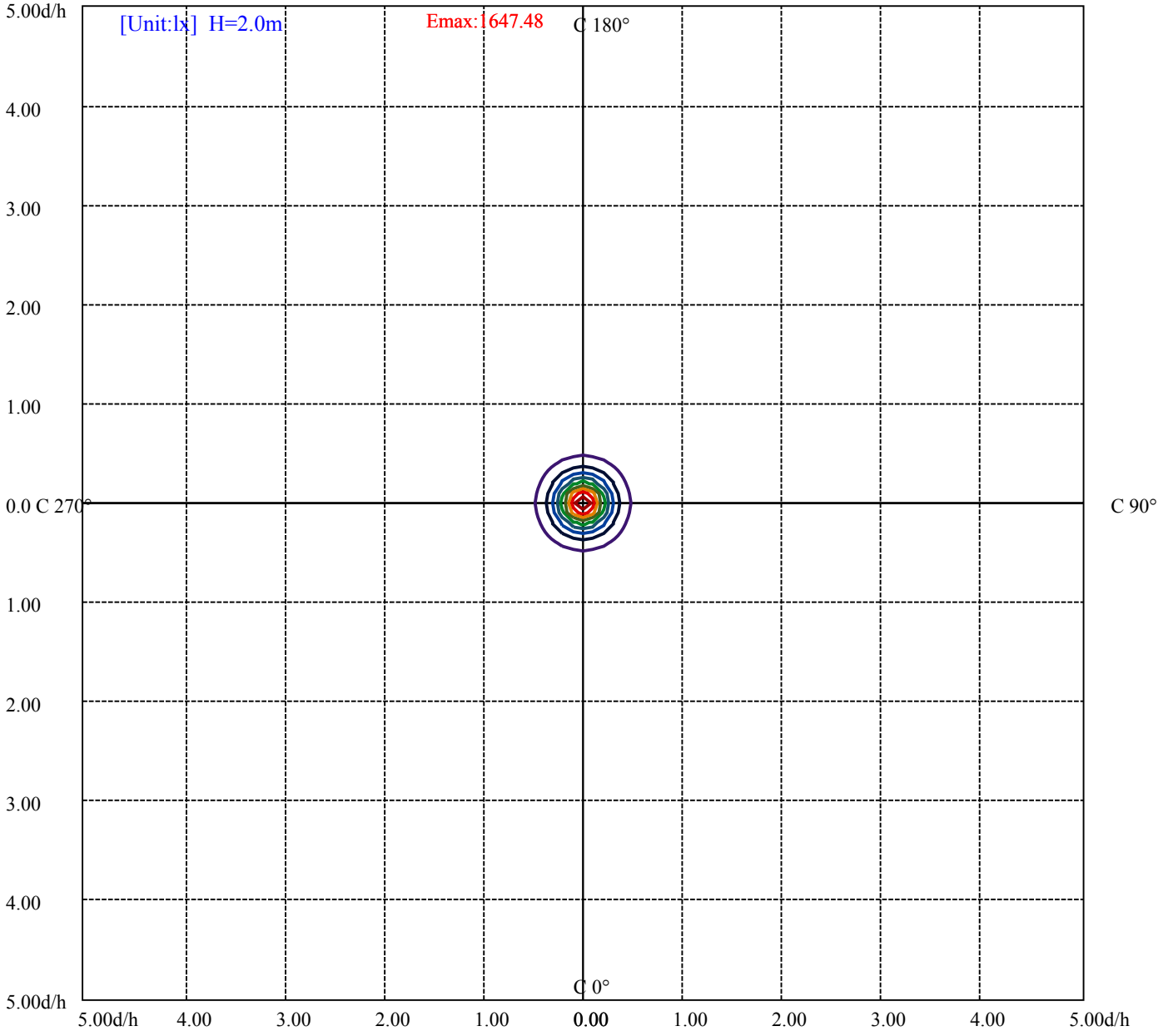
(10%Imax) 658.993
(20%Imax) 1317.99
(30%Imax) 1976.98
(40%Imax) 2635.97
(50%Imax) 3294.96
(60%Imax) 3953.96
(70%Imax) 4612.95
(80%Imax) 5271.94
(90%Imax) 5930.94

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/09
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

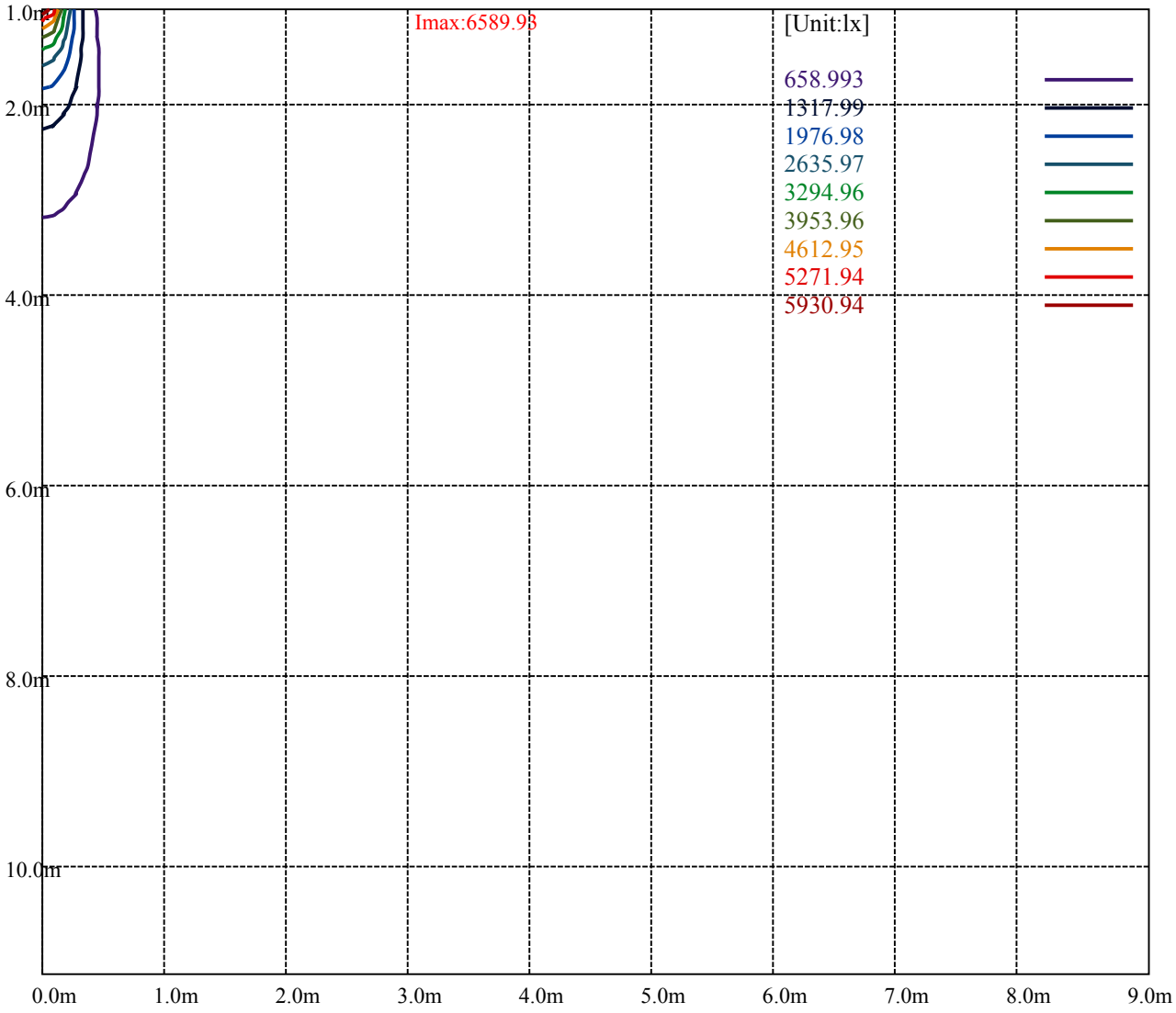
ISO illuminance diagram



(10%Emax) 164.748
(20%Emax) 329.495
(30%Emax) 494.245
(40%Emax) 658.9925
(50%Emax) 823.74
(60%Emax) 988.4875
(70%Emax) 1153.238
(80%Emax) 1317.985
(90%Emax) 1482.733

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/10/09
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/09
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

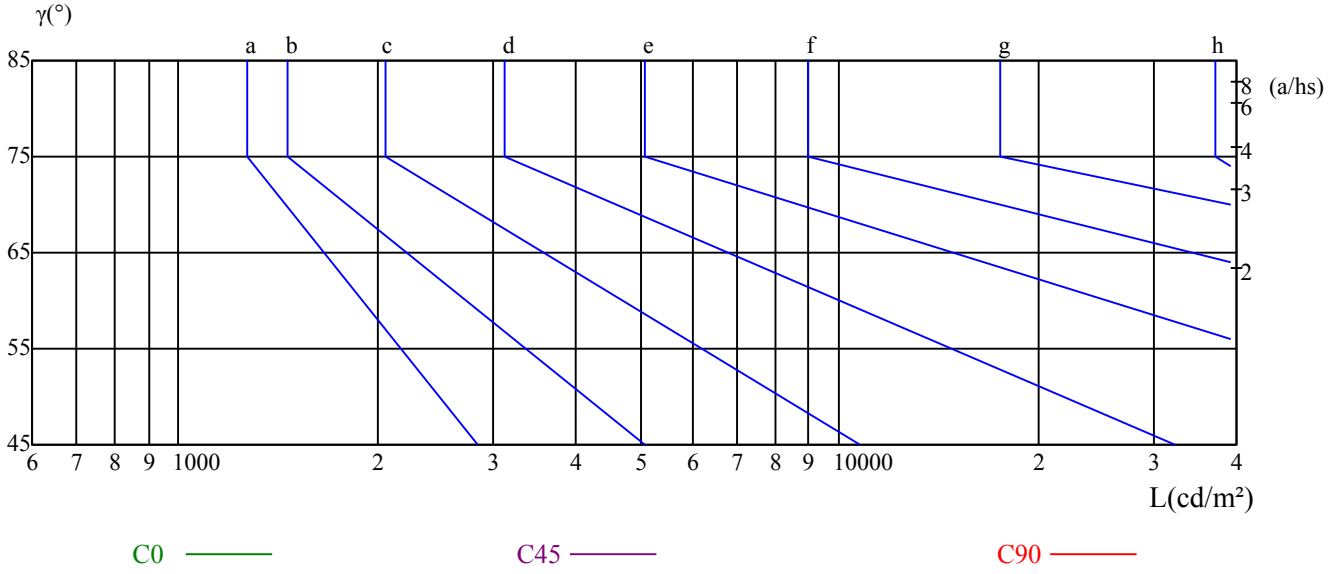
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/10/09
Humidity(%): 60.0%

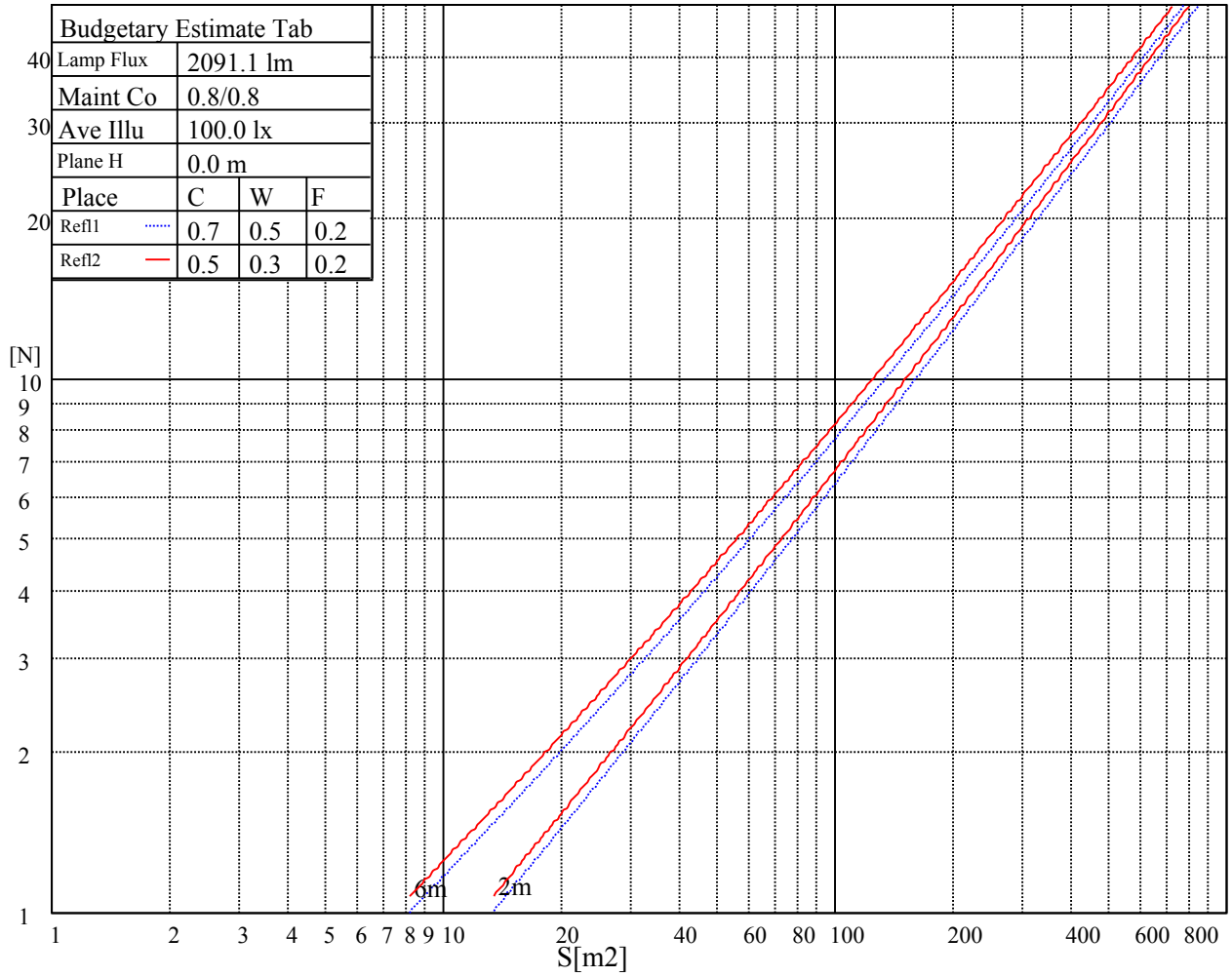
Operator: NT07
Distance(m): 7.44

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

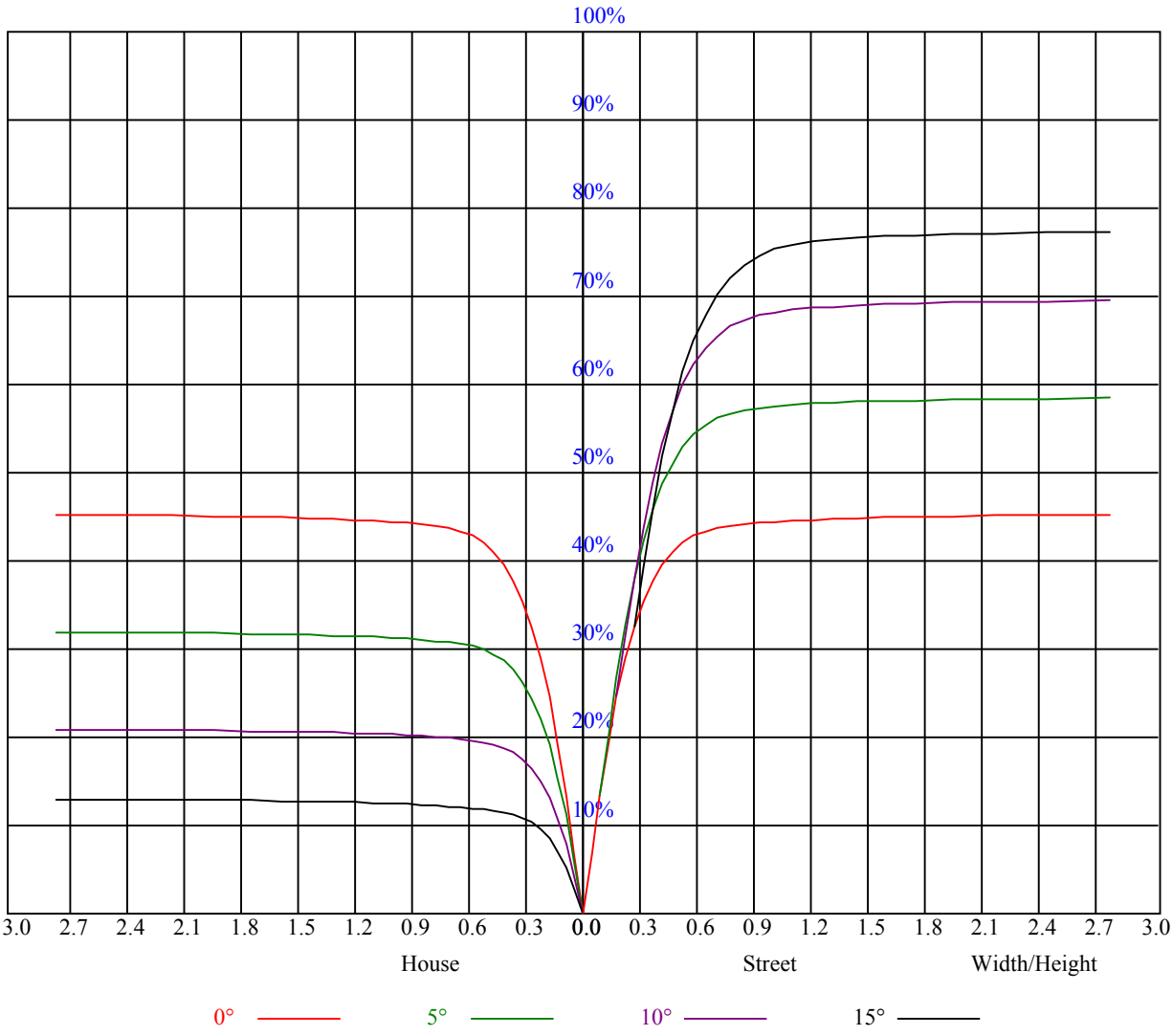


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.87	0.84	0.90	0.86	0.84	0.88	0.85	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
5	0.83	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.69
7	0.76	0.72	0.69	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.66
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.64
9	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.62
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.61	0.66	0.63	0.61	0.60

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/10/09	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	6554.36	6439.23	6291.99	6134.78	5855.80	5596.19	5316.10	4913.68	4574.37
45.0	6613.04	6598.09	6536.65	6397.16	6252.69	6057.29	5838.09	5513.72	5210.93
90.0	6616.36	6560.45	6458.60	6321.33	6149.73	5859.68	5613.91	5334.92	5010.00
135.0	6575.95	6592.00	6538.31	6443.66	6262.10	6076.66	5843.62	5591.21	5209.83
180.0	6554.36	6596.99	6593.11	6530.56	6391.07	6231.10	6044.00	5808.20	5460.02
225.0	6613.04	6543.29	6450.30	6308.59	6072.79	5832.55	5580.14	5192.67	4847.81
270.0	6616.36	6609.16	6547.17	6436.46	6249.37	6049.54	5773.88	5499.32	5187.13
315.0	6575.95	6508.42	6377.79	6224.46	6044.56	5817.05	5485.49	5182.70	4853.90
360.0	6554.36	6439.23	6291.99	6134.78	5855.80	5596.19	5316.10	4913.68	4574.37

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4209.59	3766.20	3431.31	3127.98	2784.23	2538.46	2304.87	2093.97	1857.61
45.0	4879.36	4535.07	4089.47	3742.40	3332.23	3039.41	2769.84	2467.61	2244.53
90.0	4572.71	4207.93	3765.10	3441.83	3137.94	2805.82	2556.17	2325.90	2122.76
135.0	4881.03	4535.62	4180.80	3747.38	3428.55	3127.42	2791.98	2542.89	2310.96
180.0	5134.54	4712.75	4351.29	3979.87	3554.20	3244.77	2961.36	2696.22	2388.45
225.0	4491.89	4034.12	3694.24	3368.21	3070.41	2735.52	2494.73	2273.32	2066.85
270.0	4761.46	4403.88	4039.10	3612.87	3296.81	3005.65	2742.72	2434.95	2210.21
315.0	4496.32	4033.01	3690.37	3362.68	3066.53	2738.84	2495.84	2227.93	2025.89
360.0	4209.59	3766.20	3431.31	3127.98	2784.23	2538.46	2304.87	2093.97	1857.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1686.57	1537.11	1390.98	1100.04	1100.04	980.87	898.06	808.05	697.34
45.0	2043.60	1858.72	1650.59	1500.58	1360.54	1226.03	1082.11	991.33	903.32
90.0	1890.27	1716.46	1560.92	1414.78	1091.96	1091.96	1021.72	916.54	826.98
135.0	2060.21	1874.22	1666.64	1513.87	1376.04	1243.74	1123.62	1001.29	917.15
180.0	2175.34	1978.28	1785.65	1600.22	1446.33	1306.29	1152.96	1051.66	963.10
225.0	1833.81	1667.75	1478.99	1245.40	1092.68	1068.66	973.73	892.30	806.17
270.0	2021.46	1824.95	1622.36	1475.67	1305.74	1177.32	1062.73	964.20	880.07
315.0	1835.47	1630.11	1476.78	1235.44	1085.15	1060.19	976.94	893.74	784.69
360.0	1686.57	1537.11	1390.98	1100.04	1100.04	980.87	898.06	808.05	697.34

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	610.61	529.35	451.74	360.30	291.38	229.55	179.73	140.65	124.77
45.0	810.32	698.51	614.92	513.63	431.70	353.65	281.69	281.69	155.88
90.0	738.25	631.81	547.89	466.46	368.99	293.87	227.78	175.47	135.06
135.0	825.27	733.93	627.10	546.28	465.47	371.37	299.41	281.69	205.31
180.0	864.01	774.34	684.12	580.60	499.79	417.31	341.48	287.78	287.78
225.0	698.73	613.76	528.96	446.32	348.12	276.44	214.94	167.39	130.69
270.0	802.02	707.92	601.08	515.84	430.60	349.78	295.53	295.53	158.81
315.0	696.24	610.38	527.58	426.39	349.78	279.59	204.48	160.91	131.02
360.0	610.61	529.35	451.74	360.30	291.38	229.55	179.73	140.65	124.77

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	112.31	98.31	88.46	79.99	70.85	64.38	58.90	52.64	48.32
45.0	131.96	115.69	104.67	94.38	85.36	75.67	68.92	63.05	57.73
90.0	120.56	109.54	99.42	88.34	80.32	73.34	65.59	59.95	55.02
135.0	128.20	112.81	99.86	90.72	82.64	73.51	67.14	61.39	56.29
180.0	144.09	117.24	102.74	93.16	84.64	75.11	68.42	62.55	55.96
225.0	116.46	103.23	93.38	84.58	74.89	68.25	62.27	56.79	50.98
270.0	132.52	116.69	105.45	94.88	83.58	76.11	67.64	61.66	56.46
315.0	118.29	106.89	96.43	84.75	76.61	69.47	63.16	56.41	51.87
360.0	112.31	98.31	88.46	79.99	70.85	64.38	58.90	52.64	48.32

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	44.62	41.24	37.70	35.43	33.21	31.39	29.45	28.06	26.96
45.0	51.98	47.83	43.51	40.30	37.53	34.60	32.55	30.94	29.06
90.0	49.60	45.78	41.63	38.80	36.26	34.04	31.72	30.17	28.73
135.0	50.76	46.77	43.29	40.08	36.64	34.32	31.72	30.11	28.67
180.0	51.31	47.27	42.73	39.58	36.92	33.99	31.94	30.17	28.67
225.0	46.88	43.23	40.08	36.64	34.32	32.33	30.11	28.67	27.34
270.0	51.98	47.11	43.73	40.57	37.86	35.09	33.05	31.39	29.50
315.0	47.77	44.45	40.63	37.97	35.15	33.16	31.44	29.56	28.23
360.0	44.62	41.24	37.70	35.43	33.21	31.39	29.45	28.06	26.96

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.68	24.74	23.69	22.81	21.92	20.92	19.98	19.15	18.38
45.0	27.79	26.74	25.68	24.74	23.75	22.81	21.92	20.87	19.98
90.0	27.46	26.13	25.08	24.13	23.14	22.20	21.20	20.20	19.32
135.0	27.07	25.96	25.19	24.24	23.30	22.53	21.59	20.76	19.71
180.0	27.07	25.91	25.13	24.36	23.36	22.81	21.75	20.87	20.04
225.0	26.02	25.13	24.02	23.30	22.53	21.59	20.54	19.76	18.88
270.0	28.23	27.29	26.02	25.08	24.24	23.08	22.14	21.15	20.15
315.0	27.18	26.18	24.91	24.13	23.30	22.36	21.20	20.37	19.48
360.0	25.68	24.74	23.69	22.81	21.92	20.92	19.98	19.15	18.38

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.55	16.88	16.27	15.72	15.11	14.56	14.12	13.56	13.12
45.0	18.93	18.16	17.55	16.66	16.16	15.61	15.17	14.45	13.95
90.0	18.54	17.66	17.05	16.44	15.83	15.17	14.67	14.12	13.67
135.0	18.88	18.16	17.27	16.72	16.11	15.50	14.95	14.28	13.78
180.0	19.04	18.21	17.55	16.88	16.16	15.61	15.11	14.67	14.12
225.0	18.10	17.33	16.66	16.05	15.55	14.95	14.45	13.84	13.40
270.0	19.21	18.38	17.71	16.88	16.22	15.72	15.22	14.50	14.00
315.0	18.49	17.77	17.10	16.33	15.78	15.11	14.56	14.06	13.62
360.0	17.55	16.88	16.27	15.72	15.11	14.56	14.12	13.56	13.12

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.68	12.23	11.85	11.51	11.07	10.68	10.35	10.02	9.69
45.0	13.51	13.06	12.57	12.18	11.85	11.40	11.02	10.68	10.35
90.0	13.12	12.68	12.29	11.85	11.46	11.02	10.68	10.35	10.02
135.0	13.34	12.90	12.40	12.07	11.68	11.35	10.96	10.63	10.35
180.0	13.62	13.23	12.73	12.34	12.07	11.68	11.40	11.13	10.68
225.0	12.90	12.51	12.12	11.79	11.46	11.07	10.74	10.41	10.07
270.0	13.40	13.01	12.57	12.07	11.73	11.35	11.02	10.63	10.30
315.0	13.06	12.68	12.29	11.90	11.46	11.07	10.68	10.35	9.96
360.0	12.68	12.23	11.85	11.51	11.07	10.68	10.35	10.02	9.69

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.41	9.19	8.97	8.75	8.47	8.19	8.14	7.86	8.08
45.0	10.02	9.69	9.35	9.08	8.86	8.52	8.30	8.14	8.03
90.0	9.69	9.41	9.13	8.86	8.64	8.41	8.25	8.08	7.86
135.0	10.02	9.80	9.41	9.19	8.91	8.64	8.41	8.19	8.08
180.0	10.46	10.13	9.80	9.52	9.19	8.97	8.41	8.19	8.08
225.0	9.74	9.47	9.19	8.91	8.75	8.36	8.14	8.03	7.80
270.0	9.96	9.63	9.35	9.08	8.86	8.69	8.30	8.14	7.92
315.0	9.69	9.41	9.13	8.91	8.69	8.41	8.25	8.36	8.03
360.0	9.41	9.19	8.97	8.75	8.47	8.19	8.14	7.86	8.08

Intensity data(cd)

C/γ(°)	90.0
0.0	8.03
45.0	7.97
90.0	7.86
135.0	7.86
180.0	7.92
225.0	7.80
270.0	7.97
315.0	8.14
360.0	8.03