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NATA

Client:
LumCAT: 2-2639-L
Luminaire: 92.70.412.00
Report No: 20231109-B015
Ballast type: AC

Test No: 20231009-C015	Voltage(V): 34.190
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
Lamp flux(lm): 2091.1	Power (W): 15.419
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1975.74, Efficiency(%): 94.48% , Luminous Efficacy(lm/W): 128.14
Central intensity(cd): 8766.433, Maximum intensity(cd): 8766.433
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=20.0
[C90/270]Total=20.0
Field angle(10%Imax): [C0/180]Total=52.2
[C90/270]Total=52.2
Beam angle of C0 plane : 20.10
Aveage BeamAngle(IEC 61341):20.10
Maximum s/h(1/2): C0_180=0.34 C90_270=0.34
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.48%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.049%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8766.433	0.000	0	0.00%	0.00%
1.0	8683.541	8.349	8.349	0.40%	0.42%
2.0	8502.673	24.667	33.017	1.18%	1.67%
3.0	8150.901	39.830	72.847	1.90%	3.69%
4.0	7704.751	53.074	125.921	2.54%	6.37%
5.0	7221.306	64.211	190.132	3.07%	9.62%
6.0	6654.485	72.921	263.053	3.49%	13.31%
7.0	6065.315	78.952	342.004	3.78%	17.31%
8.0	5486.732	82.676	424.68	3.95%	21.49%
9.0	4936.586	84.475	509.155	4.04%	25.77%
10.0	4407.060	84.557	593.712	4.04%	30.05%
11.0	3911.576	83.120	676.832	3.97%	34.26%
12.0	3477.050	80.768	757.6	3.86%	38.35%
13.0	3077.812	77.790	835.39	3.72%	42.28%
14.0	2711.372	74.101	909.491	3.54%	46.03%
15.0	2405.820	70.251	979.742	3.36%	49.59%
16.0	2130.574	66.471	1046.213	3.18%	52.95%
17.0	1899.611	62.761	1108.974	3.00%	56.13%
18.0	1710.648	59.525	1168.499	2.85%	59.14%
19.0	1555.934	56.832	1225.331	2.72%	62.02%
20.0	1396.917	54.045	1279.376	2.58%	64.75%
21.0	1252.251	50.869	1330.246	2.43%	67.33%
22.0	1174.271	48.762	1379.008	2.33%	69.80%
23.0	1108.124	47.891	1426.899	2.29%	72.22%
24.0	1025.931	46.658	1473.557	2.23%	74.58%
25.0	952.559	44.987	1518.543	2.15%	76.86%
26.0	880.268	43.264	1561.807	2.07%	79.05%
27.0	810.875	41.374	1603.182	1.98%	81.14%
28.0	741.116	39.293	1642.475	1.88%	83.13%
29.0	670.962	36.944	1679.419	1.77%	85.00%
30.0	597.258	34.242	1713.66	1.64%	86.74%
31.0	522.759	31.168	1744.829	1.49%	88.31%
32.0	449.776	27.862	1772.691	1.33%	89.72%
33.0	380.245	24.453	1797.143	1.17%	90.96%
34.0	318.802	21.155	1818.299	1.01%	92.03%
35.0	264.203	18.106	1836.405	0.87%	92.95%
36.0	232.720	15.822	1852.227	0.76%	93.75%
37.0	173.651	13.254	1865.48	0.63%	94.42%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	131.409	10.183	1875.663	0.49%	94.93%
39.0	98.087	7.833	1883.496	0.37%	95.33%
40.0	74.817	6.030	1889.526	0.29%	95.64%
41.0	58.979	4.764	1894.291	0.23%	95.88%
42.0	48.102	3.890	1898.181	0.19%	96.07%
43.0	40.034	3.265	1901.446	0.16%	96.24%
44.0	34.471	2.812	1904.258	0.13%	96.38%
45.0	30.611	2.501	1906.759	0.12%	96.51%
46.0	27.926	2.289	1909.049	0.11%	96.62%
47.0	25.919	2.142	1911.19	0.10%	96.73%
48.0	24.293	2.030	1913.22	0.10%	96.84%
49.0	23.179	1.949	1915.17	0.09%	96.93%
50.0	22.349	1.898	1917.068	0.09%	97.03%
51.0	21.837	1.869	1918.937	0.09%	97.13%
52.0	21.546	1.862	1920.799	0.09%	97.22%
53.0	21.505	1.873	1922.672	0.09%	97.31%
54.0	21.692	1.904	1924.575	0.09%	97.41%
55.0	22.051	1.953	1926.528	0.09%	97.51%
56.0	22.633	2.019	1928.547	0.10%	97.61%
57.0	23.186	2.095	1930.642	0.10%	97.72%
58.0	23.470	2.158	1932.8	0.10%	97.83%
59.0	23.477	2.195	1934.995	0.10%	97.94%
60.0	22.993	2.195	1937.19	0.10%	98.05%
61.0	21.968	2.146	1939.336	0.10%	98.16%
62.0	20.488	2.046	1941.381	0.10%	98.26%
63.0	18.869	1.914	1943.295	0.09%	98.36%
64.0	17.270	1.773	1945.069	0.08%	98.45%
65.0	15.990	1.646	1946.715	0.08%	98.53%
66.0	14.987	1.546	1948.26	0.07%	98.61%
67.0	14.212	1.468	1949.729	0.07%	98.68%
68.0	13.638	1.411	1951.139	0.07%	98.76%
69.0	13.167	1.367	1952.507	0.07%	98.82%
70.0	12.752	1.331	1953.838	0.06%	98.89%
71.0	12.413	1.301	1955.139	0.06%	98.96%
72.0	12.053	1.272	1956.411	0.06%	99.02%
73.0	11.763	1.245	1957.656	0.06%	99.08%
74.0	11.493	1.223	1958.879	0.06%	99.15%
75.0	11.230	1.201	1960.079	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.022	1.181	1961.261	0.06%	99.27%
77.0	10.780	1.162	1962.423	0.06%	99.33%
78.0	10.573	1.143	1963.566	0.05%	99.38%
79.0	10.379	1.126	1964.692	0.05%	99.44%
80.0	10.144	1.106	1965.798	0.05%	99.50%
81.0	9.950	1.087	1966.885	0.05%	99.55%
82.0	9.742	1.068	1967.953	0.05%	99.61%
83.0	9.528	1.048	1969	0.05%	99.66%
84.0	9.327	1.027	1970.027	0.05%	99.71%
85.0	9.133	1.008	1971.035	0.05%	99.76%
86.0	8.940	0.988	1972.023	0.05%	99.81%
87.0	8.739	0.968	1972.99	0.05%	99.86%
88.0	8.469	0.943	1973.933	0.05%	99.91%
89.0	8.192	0.913	1974.846	0.04%	99.95%
90.0	8.047	0.890	1975.737	0.04%	100.00%

Zonal flux distribution table

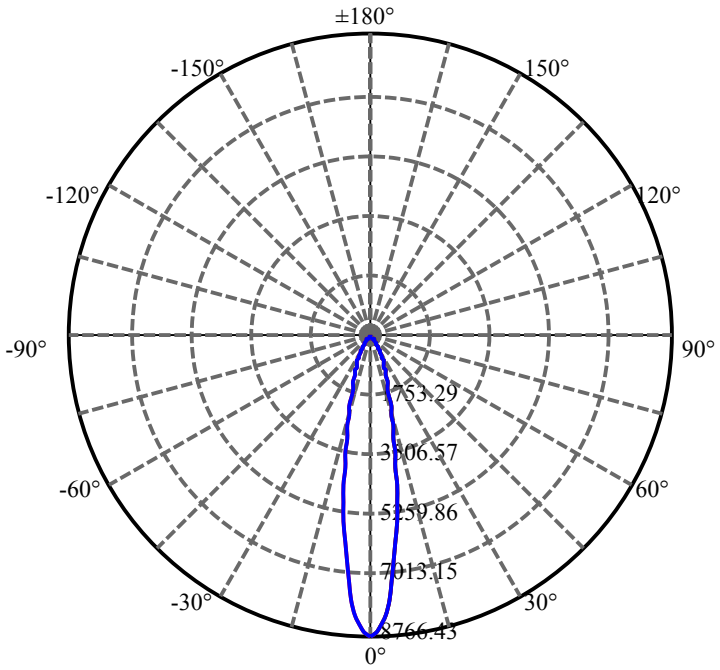
ZONAL LUMEN SUMMARY

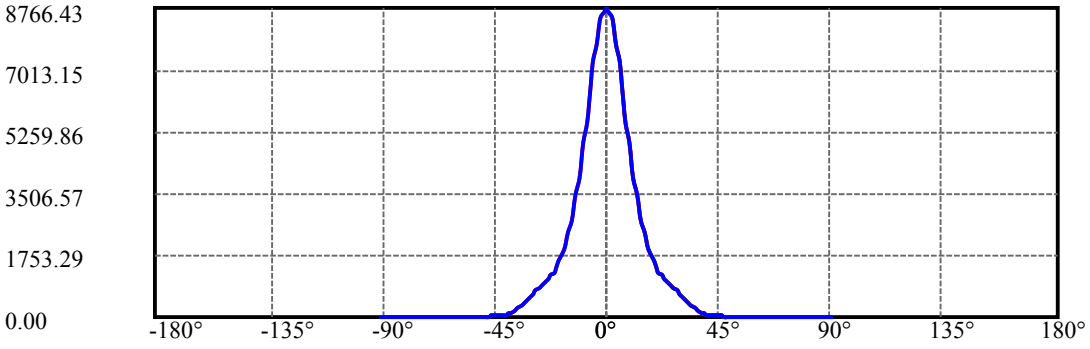
Zone	Lumens	%Lamp	%Fixt
0-30	1713.66	81.95%	86.74%
0-40	1889.53	90.36%	95.64%
0-60	1937.19	92.64%	98.05%
0-90	1974.85	94.44%	99.95%
0-120	1974.85	94.44%	99.95%
0-180	1975.74	94.48%	100.00%
60-90	37.66	1.80%	1.91%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.45	1580.59	75.59%	80.00%

ZONAL LUMEN SUMMARY

0-10	593.71
10-20	685.66
20-30	434.28
30-40	175.87
40-50	27.54
50-60	20.12
60-70	16.65
70-80	11.96
80-90	9.05
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):

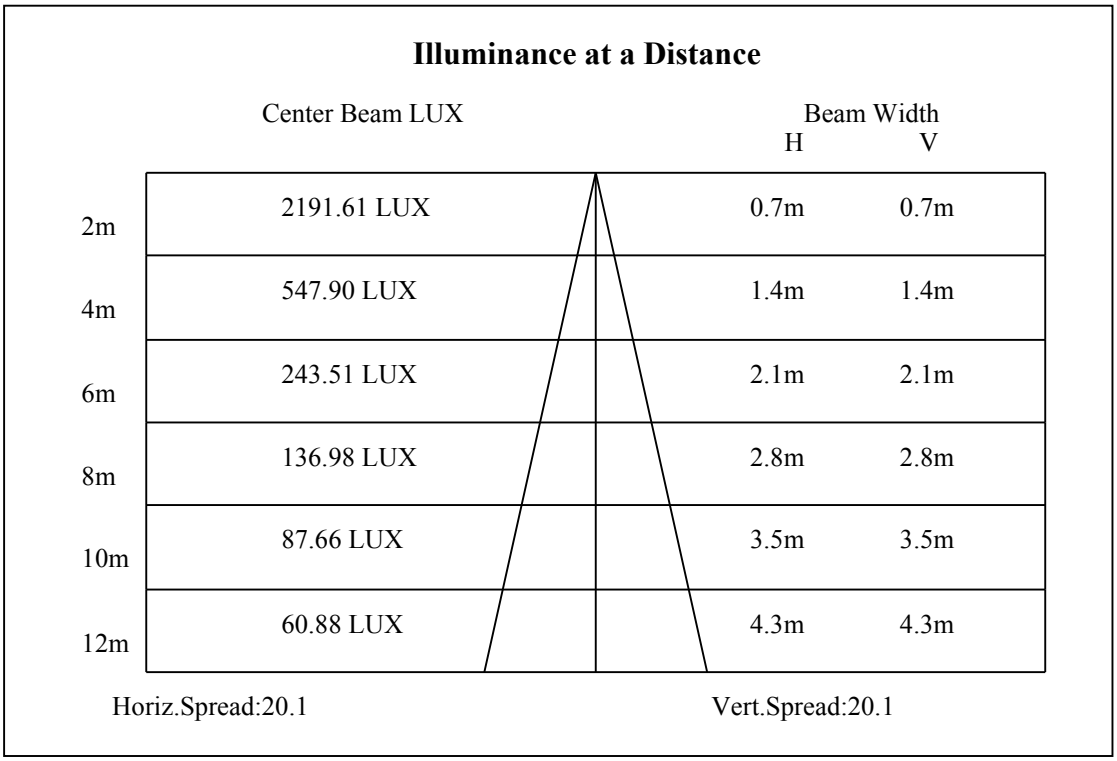
C0/C180:

C90/C270:

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

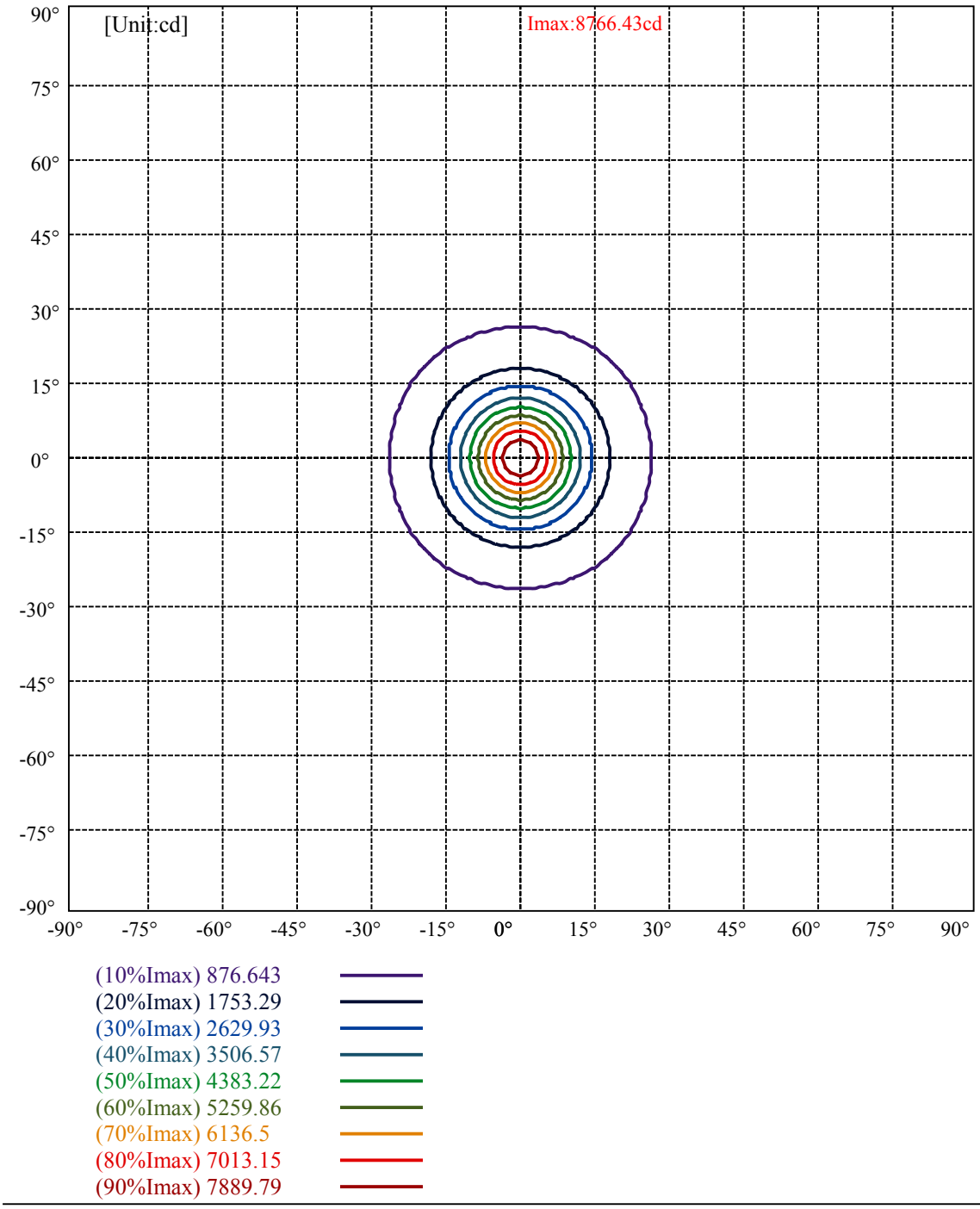
Beam Angle(50%Imax):C0/180Left:10.0 Right:10.0
:C90/270Left:10.0 Right:10.0

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)

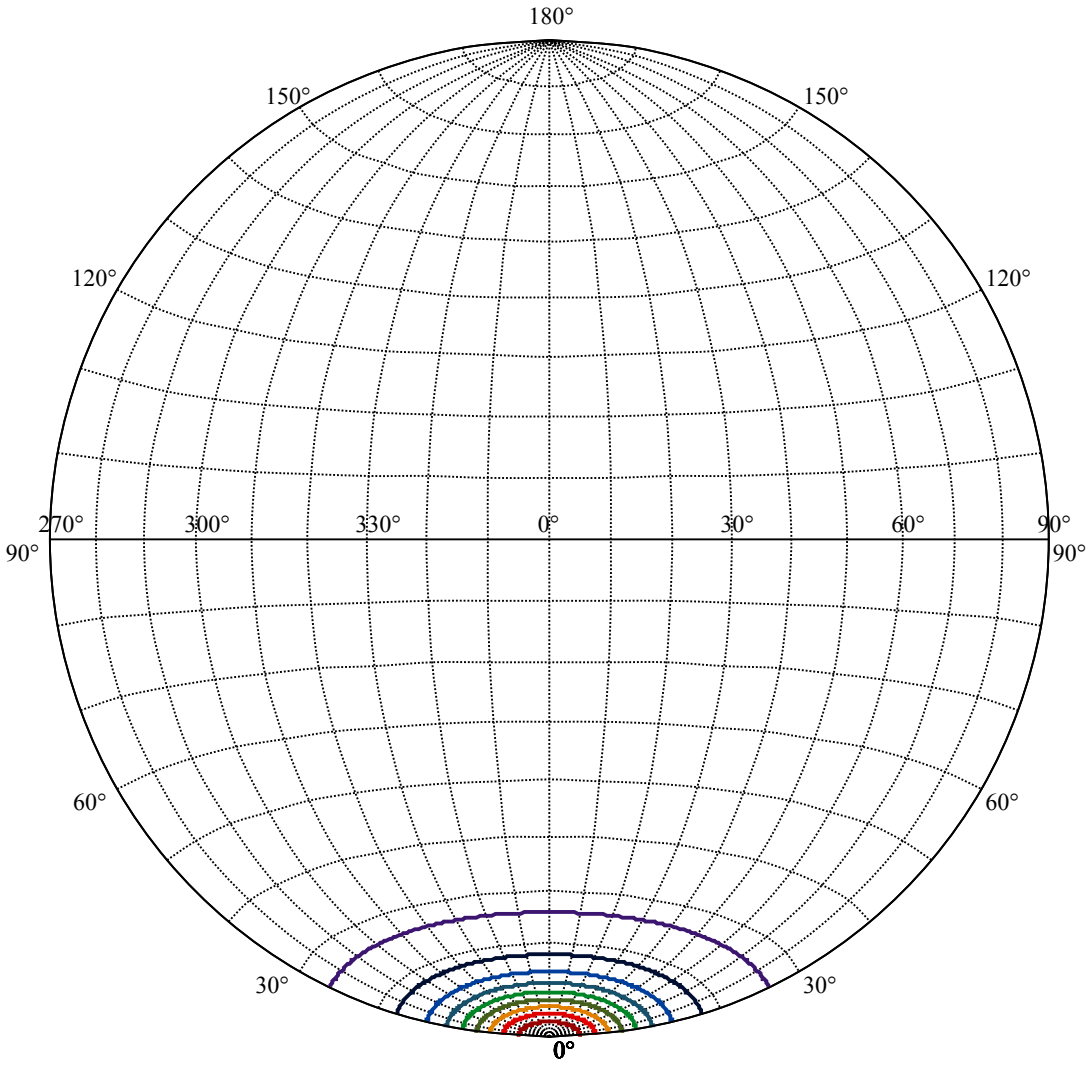


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8766.43

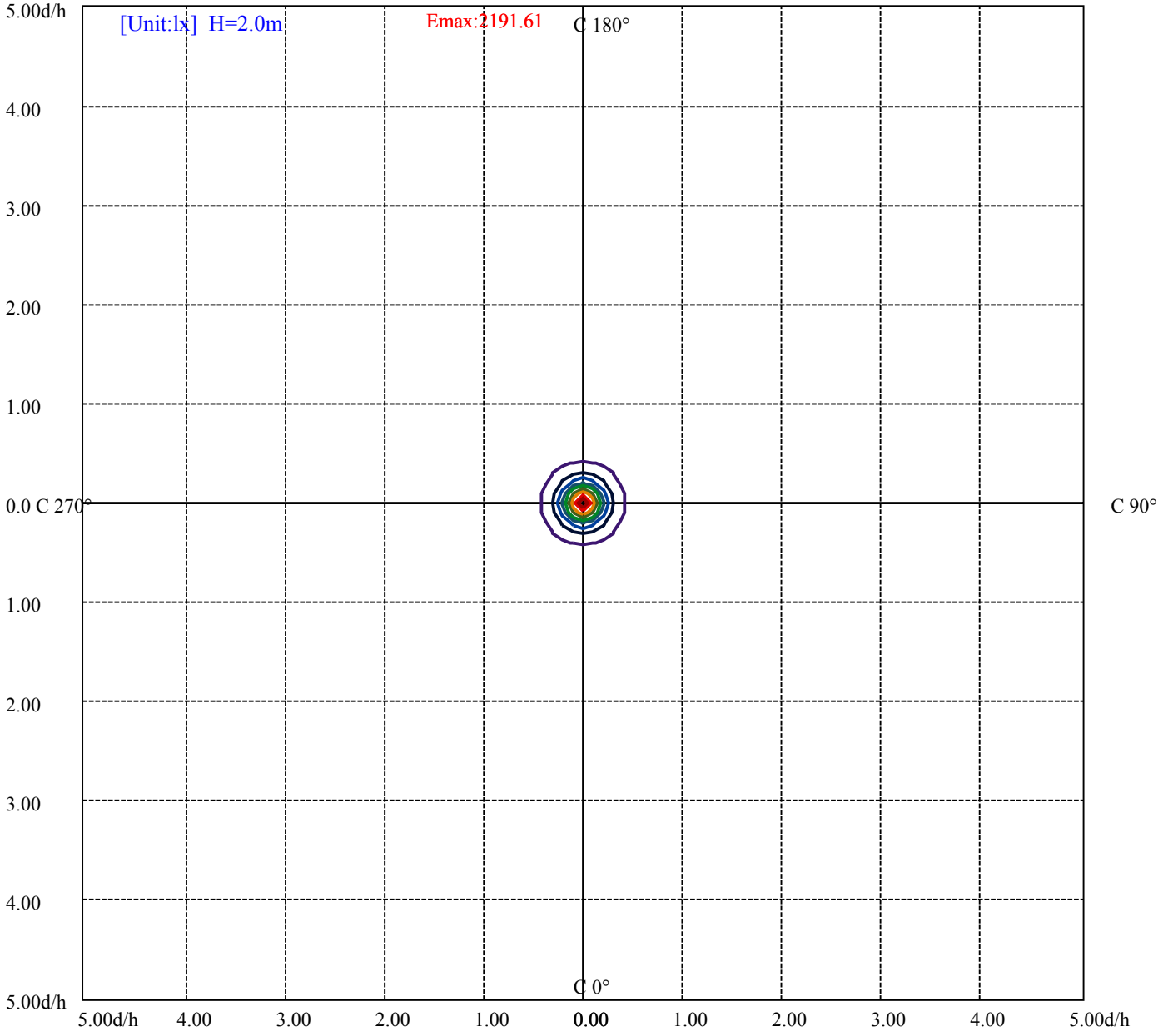
(10%Imax) 876.643
(20%Imax) 1753.29
(30%Imax) 2629.93
(40%Imax) 3506.57
(50%Imax) 4383.22
(60%Imax) 5259.86
(70%Imax) 6136.5
(80%Imax) 7013.15
(90%Imax) 7889.79

Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO illuminance diagram

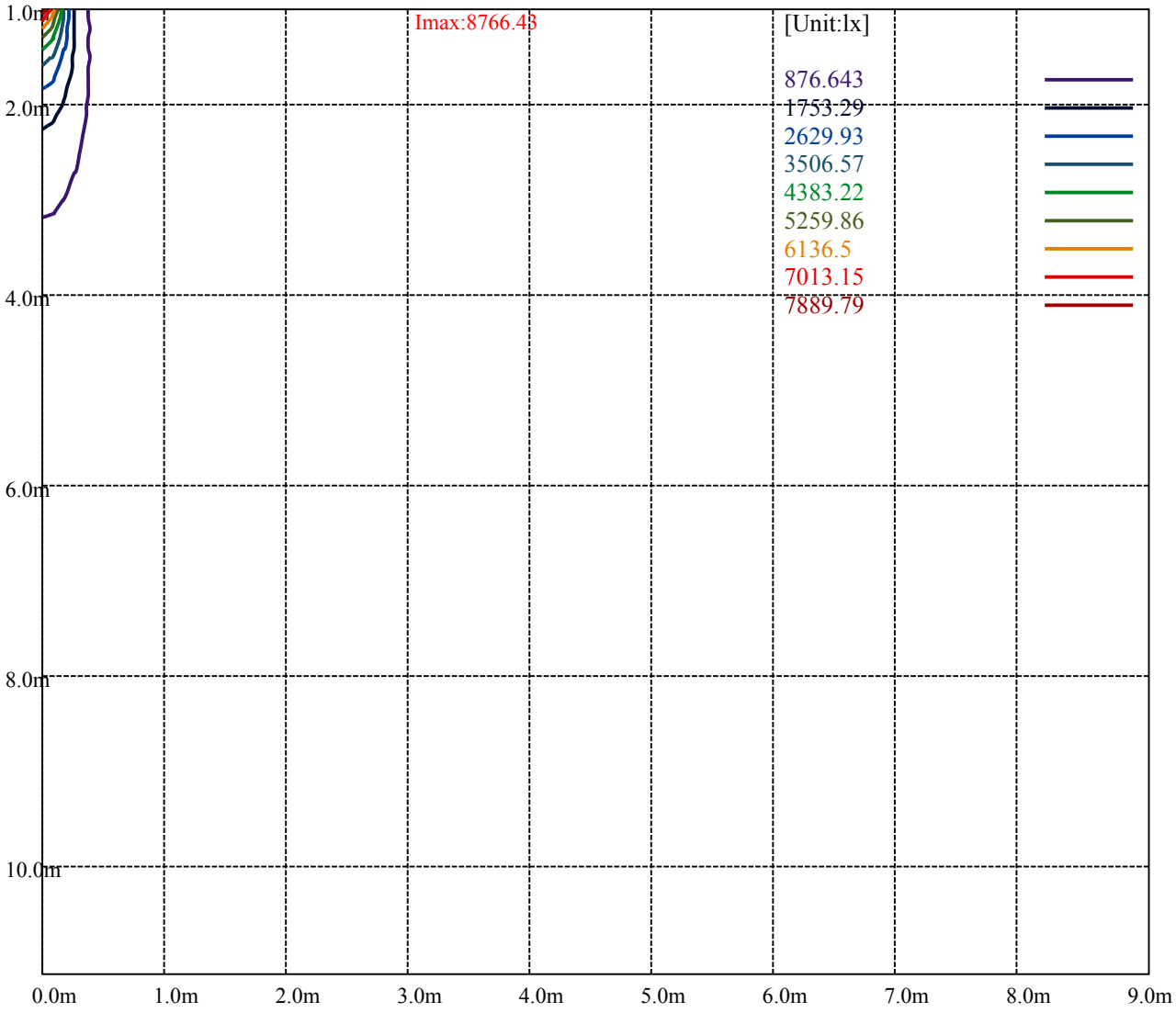


Equipment: GMS1980
Temperature(°C): 25.0

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

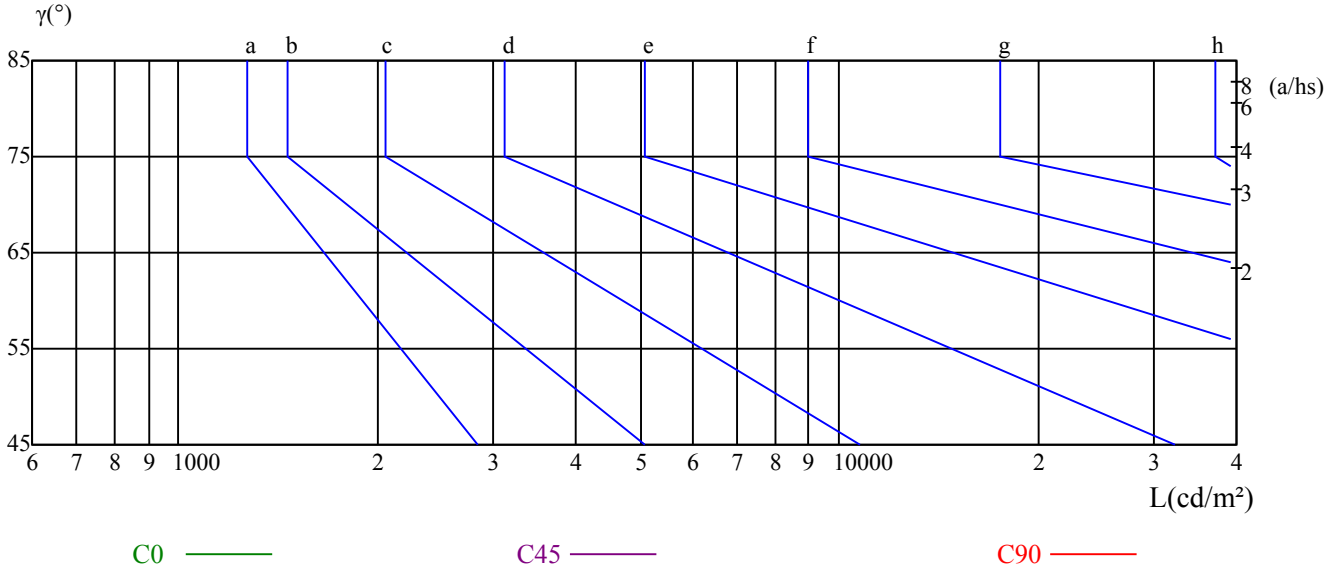
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

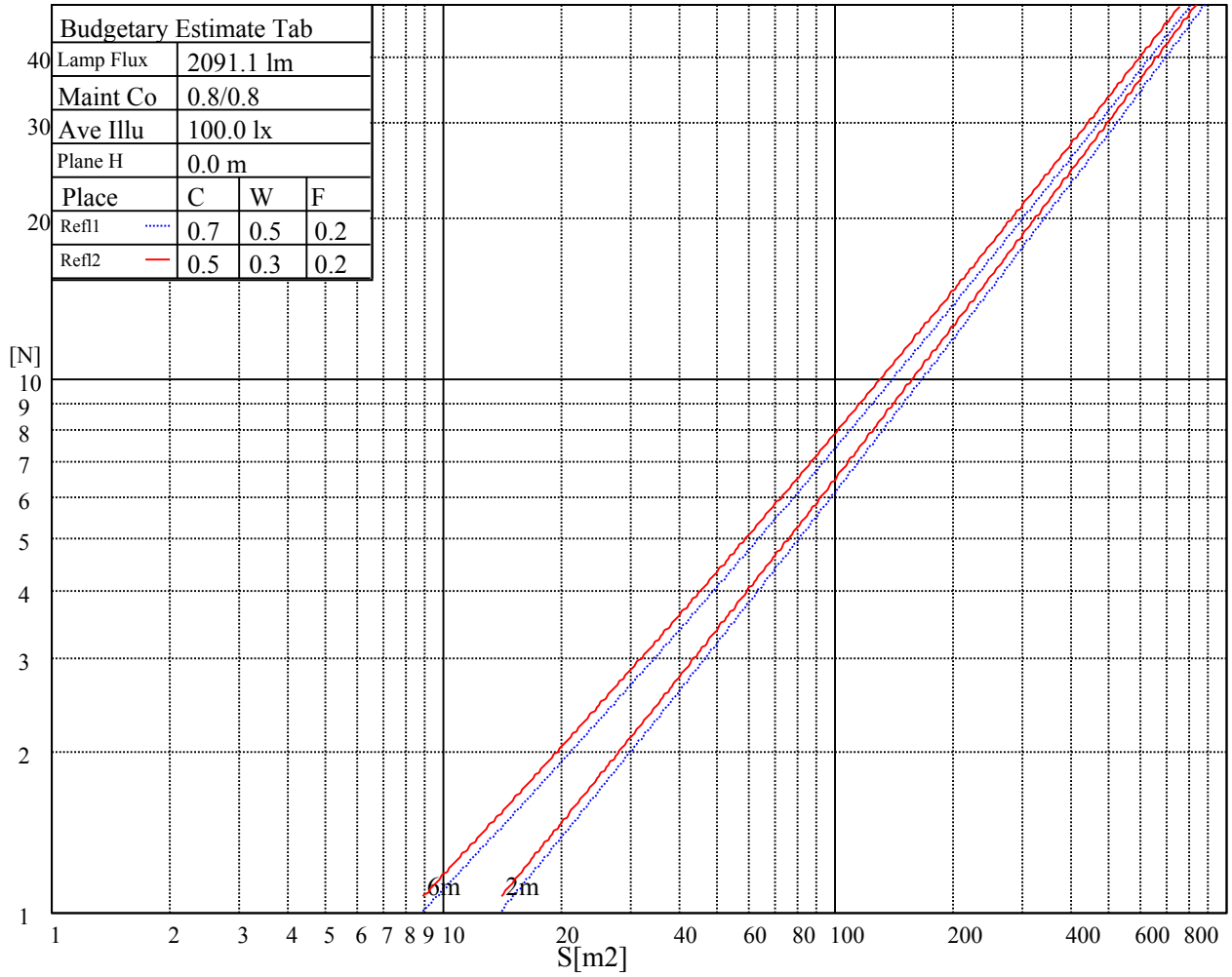


UGR Glare

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

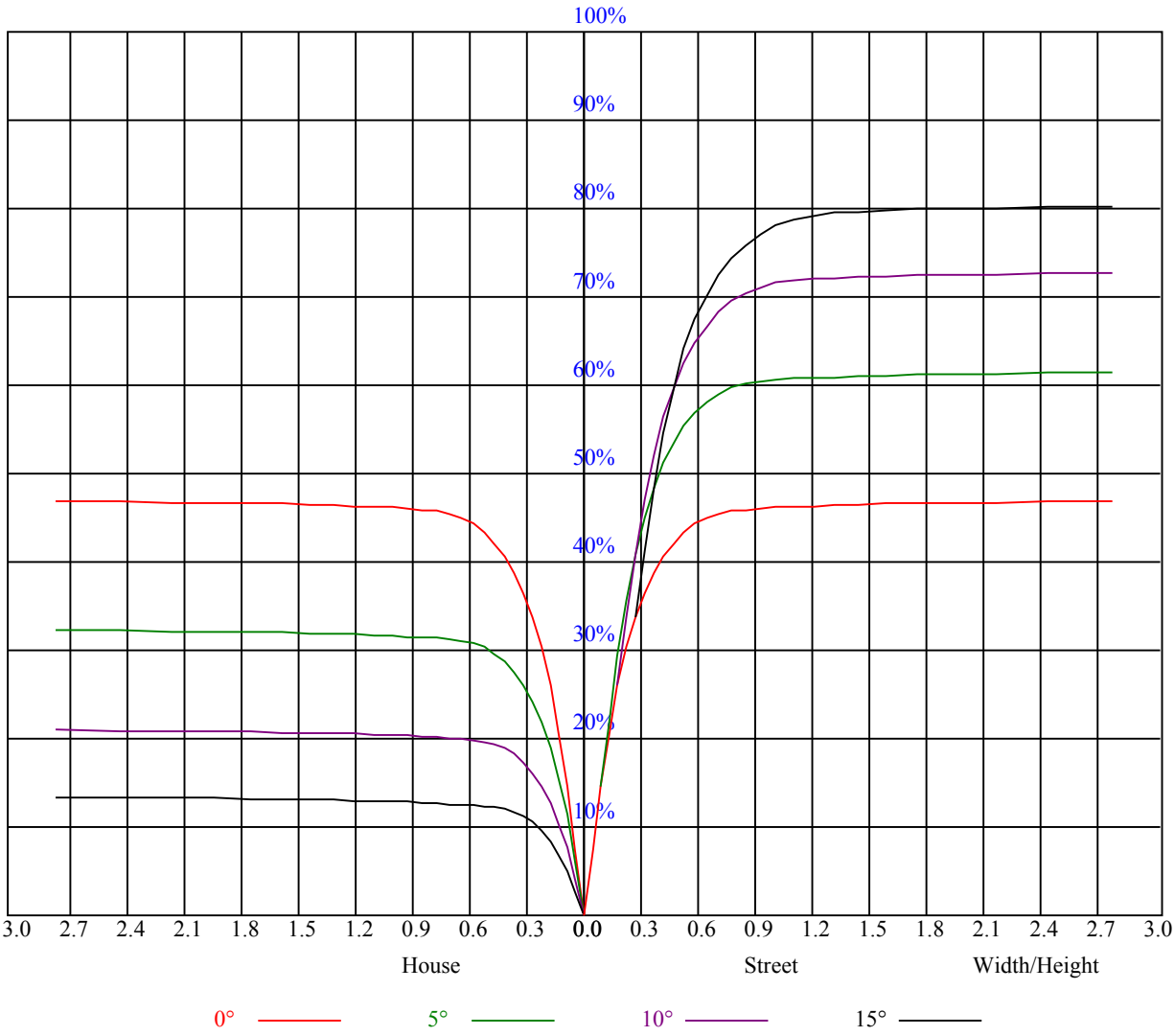


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.12	1.12	1.12	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.94
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90
2	1.00	0.96	0.94	0.98	0.95	0.93	0.95	0.93	0.91	0.92	0.90	0.89	0.90	0.88	0.87	0.85
3	0.95	0.91	0.88	0.93	0.90	0.87	0.91	0.88	0.86	0.89	0.86	0.84	0.87	0.85	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.79	0.78
5	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.75	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
8	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.67
9	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62

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	8672.19	8330.66	7924.37	7460.50	6805.67	6259.88	5716.86	5176.61	4532.30
45.0	8824.97	8733.08	8544.88	8152.42	7726.20	7218.05	6688.87	6019.65	5488.81
90.0	8780.13	8588.06	8327.34	7939.31	7331.53	6803.46	6268.74	5755.06	5080.85
135.0	8788.44	8791.76	8660.02	8339.52	7925.47	7458.29	6961.77	6299.18	5767.79
180.0	8672.19	8791.76	8799.51	8684.37	8454.10	8080.46	7516.96	7008.26	6463.03
225.0	8824.97	8744.71	8581.41	8187.30	7758.86	7268.43	6723.19	6025.18	5446.74
270.0	8780.13	8819.99	8738.06	8476.24	8132.50	7676.94	7048.67	6482.96	5923.33
315.0	8788.44	8668.32	8445.80	7967.54	7503.68	7004.94	6310.81	5755.61	5191.01
360.0	8672.19	8330.66	7924.37	7460.50	6805.67	6259.88	5716.86	5176.61	4532.30

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4067.88	3642.21	3250.86	2813.01	2506.91	2246.75	1963.34	1770.15	1609.07
45.0	4949.66	4457.02	3896.28	3489.99	3106.94	2688.47	2400.08	2089.54	1879.20
90.0	4571.60	4100.54	3667.67	3179.46	2837.37	2469.27	2211.87	1986.59	1764.62
135.0	5228.09	4714.96	4133.75	3709.74	3313.41	2961.92	2567.24	2296.01	2064.63
180.0	5916.14	5212.59	4675.66	4188.00	3638.34	3251.42	2901.03	2513.55	2250.62
225.0	4890.44	4392.25	3830.41	3422.46	3061.55	2659.69	2376.27	2128.84	1864.25
270.0	5212.04	4678.98	4198.52	3759.01	3259.16	2902.69	2584.96	2302.10	1995.44
315.0	4656.84	4057.92	3639.44	3254.74	2898.81	2510.78	2241.77	1957.80	1769.05
360.0	4067.88	3642.21	3250.86	2813.01	2506.91	2246.75	1963.34	1770.15	1609.07

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1441.35	1324.56	1093.07	1093.07	1037.33	966.31	899.05	820.67	757.62
45.0	1706.50	1563.68	1407.59	1297.43	1206.65	1121.96	1027.31	955.35	885.60
90.0	1614.61	1485.08	1372.16	1093.95	1093.95	1075.58	1000.52	915.83	848.68
135.0	1828.83	1673.28	1507.78	1397.07	1293.00	1203.89	1104.25	1030.63	957.56
180.0	1989.91	1796.17	1640.07	1503.35	1362.75	1255.92	1161.26	1089.30	993.54
225.0	1689.34	1538.77	1379.36	1202.22	1089.69	1070.70	993.54	924.85	855.82
270.0	1808.35	1632.32	1455.74	1338.39	1218.28	1131.93	1052.22	979.15	900.55
315.0	1606.31	1433.60	1319.57	1092.51	1092.51	1038.71	969.30	904.70	842.76
360.0	1441.35	1324.56	1093.07	1093.07	1037.33	966.31	899.05	820.67	757.62

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	692.81	627.71	544.46	477.81	412.88	339.10	286.45	237.41	181.78
45.0	819.18	734.49	670.28	586.14	518.61	451.63	371.37	314.91	288.34
90.0	781.76	715.11	631.97	563.89	477.48	411.89	350.06	281.69	230.55
135.0	887.82	804.23	736.70	669.72	598.87	510.30	441.11	363.06	306.05
180.0	923.80	859.59	792.61	706.26	639.83	551.82	480.41	412.88	336.49
225.0	774.45	710.02	642.93	576.29	491.76	425.12	363.95	307.43	244.05
270.0	841.32	776.56	713.45	630.98	561.23	493.70	409.01	348.12	291.66
315.0	765.87	701.22	635.29	566.99	481.41	414.65	339.59	284.90	234.70
360.0	692.81	627.71	544.46	477.81	412.88	339.10	286.45	237.41	181.78

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	144.36	106.89	83.47	65.87	53.14	42.12	36.15	31.83	28.67
45.0	288.34	158.31	124.32	97.09	71.35	57.07	47.05	39.74	33.54
90.0	185.55	147.24	107.55	83.42	65.37	52.75	41.79	36.04	31.94
135.0	292.21	226.17	147.02	114.31	88.90	65.87	53.36	44.34	38.08
180.0	282.25	282.25	219.81	135.51	106.11	82.48	64.99	50.10	41.96
225.0	198.55	149.57	118.12	92.72	69.08	55.85	46.55	39.85	34.15
270.0	291.66	177.08	140.32	109.49	80.43	63.77	51.76	41.52	35.92
315.0	178.85	141.71	110.65	86.30	64.15	51.92	43.18	36.87	31.50
360.0	144.36	106.89	83.47	65.87	53.14	42.12	36.15	31.83	28.67

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	25.85	24.24	23.03	22.20	21.48	21.09	20.98	21.09	21.48
45.0	30.06	27.46	25.52	23.75	22.75	21.81	21.42	21.26	21.31
90.0	28.40	26.29	24.69	23.25	22.36	21.64	21.31	21.15	21.31
135.0	32.66	29.61	27.23	25.08	23.75	22.86	22.03	21.64	21.48
180.0	36.42	32.38	28.89	26.79	24.91	23.80	22.97	22.14	21.70
225.0	30.89	28.51	26.68	24.91	23.86	23.03	22.36	22.03	21.81
270.0	31.99	28.45	26.46	25.02	23.86	22.81	22.20	21.86	21.70
315.0	28.62	26.46	24.85	23.36	22.47	21.75	21.42	21.20	21.26
360.0	25.85	24.24	23.03	22.20	21.48	21.09	20.98	21.09	21.48

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	21.98	22.58	23.19	23.36	23.19	22.42	21.26	19.71	17.71
45.0	21.59	22.14	22.86	23.75	24.13	24.13	23.69	22.25	20.65
90.0	21.81	22.31	23.03	23.47	23.69	23.30	22.47	21.20	19.26
135.0	21.48	21.70	22.20	22.97	23.36	23.58	23.41	22.69	21.15
180.0	21.53	21.53	21.86	22.42	23.03	23.58	23.80	23.64	22.92
225.0	21.98	22.25	22.75	23.41	23.64	23.69	23.14	21.98	20.43
270.0	21.70	21.98	22.53	23.03	23.41	23.75	23.58	22.86	21.81
315.0	21.48	21.92	22.64	23.08	23.30	23.36	22.58	21.42	19.98
360.0	21.98	22.58	23.19	23.36	23.19	22.42	21.26	19.71	17.71

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.44	15.44	14.45	13.89	13.40	12.90	12.51	12.23	11.85
45.0	18.93	17.05	15.83	14.72	14.12	13.62	13.17	12.73	12.40
90.0	17.71	16.11	15.17	14.39	13.73	13.28	12.90	12.57	12.23
135.0	19.60	18.05	16.38	15.39	14.50	13.89	13.45	12.95	12.62
180.0	21.31	19.60	18.05	16.33	15.28	14.39	13.78	13.34	12.95
225.0	18.82	17.21	15.78	14.95	14.12	13.56	13.17	12.68	12.34
270.0	19.82	18.16	16.77	15.72	14.67	14.06	13.45	13.01	12.68
315.0	18.32	16.55	15.50	14.50	13.89	13.40	12.90	12.51	12.23
360.0	16.44	15.44	14.45	13.89	13.40	12.90	12.51	12.23	11.85

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.57	11.40	11.18	10.90	10.68	10.52	10.30	10.02	9.85
45.0	12.07	11.79	11.46	11.24	11.07	10.79	10.57	10.41	10.19
90.0	11.85	11.62	11.35	11.13	10.96	10.63	10.41	10.24	9.96
135.0	12.29	11.96	11.68	11.40	11.18	10.96	10.74	10.52	10.30
180.0	12.51	12.12	11.90	11.51	11.29	11.07	10.90	10.74	10.46
225.0	12.01	11.68	11.40	11.18	10.96	10.74	10.52	10.35	10.19
270.0	12.23	11.96	11.68	11.40	11.13	10.90	10.74	10.52	10.24
315.0	11.90	11.57	11.29	11.07	10.90	10.63	10.41	10.24	9.96
360.0	11.57	11.40	11.18	10.90	10.68	10.52	10.30	10.02	9.85

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.63	9.47	9.24	9.08	8.86	8.64	8.36	8.03	8.03
45.0	9.96	9.74	9.47	9.30	9.08	8.91	8.69	8.41	8.08
90.0	9.80	9.58	9.41	9.19	9.02	8.80	8.64	8.30	8.03
135.0	10.07	9.91	9.63	9.41	9.24	9.02	8.91	8.58	8.30
180.0	10.30	10.02	9.85	9.58	9.35	9.24	9.02	8.80	8.58
225.0	9.96	9.74	9.58	9.41	9.19	8.97	8.80	8.58	8.19
270.0	10.07	9.85	9.63	9.41	9.24	9.02	8.86	8.64	8.25
315.0	9.80	9.63	9.41	9.24	9.08	8.91	8.64	8.41	8.08
360.0	9.63	9.47	9.24	9.08	8.86	8.64	8.36	8.03	8.03

Intensity data(cd)

C/γ(°)	90.0
0.0	8.03
45.0	8.03
90.0	8.03
135.0	8.08
180.0	8.19
225.0	7.97
270.0	8.03
315.0	8.03
360.0	8.03