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NATA

Client:
LumCAT: 2-2640-L
Luminaire: 92.70.412.00
Report No: 20231009-B013
Ballast type: AC

Test No: 20231009-C012	Voltage(V): 34.180
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.450
Lamp flux(lm): 2091.1	Power (W): 15.415
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1933.77, Efficiency(%): 92.47% , Luminous Efficacy(lm/W): 125.45
Central intensity(cd): 5992.525, Maximum intensity(cd): 5992.525
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=25.8
[C90/270]Total=25.8
Field angle(10%Imax): [C0/180]Total=61.8
[C90/270]Total=61.8
Beam angle of C0 plane : 25.78
Aveage BeamAngle(IEC 61341):25.78
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.49 C90_270=0.49
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.47%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.092%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5992.525	0.000	0	0.00%	0.00%
1.0	5955.715	5.717	5.717	0.27%	0.30%
2.0	5846.530	16.940	22.657	0.81%	1.17%
3.0	5683.998	27.577	50.234	1.32%	2.60%
4.0	5492.198	37.410	87.644	1.79%	4.53%
5.0	5242.622	46.181	133.825	2.21%	6.92%
6.0	4977.410	53.709	187.534	2.57%	9.70%
7.0	4692.684	60.022	247.556	2.87%	12.80%
8.0	4383.119	64.954	312.51	3.11%	16.16%
9.0	4081.304	68.600	381.109	3.28%	19.71%
10.0	3770.493	71.056	452.165	3.40%	23.38%
11.0	3501.959	72.667	524.832	3.47%	27.14%
12.0	3217.442	73.453	598.285	3.51%	30.94%
13.0	2969.319	73.421	671.706	3.51%	34.74%
14.0	2727.632	72.920	744.626	3.49%	38.51%
15.0	2497.153	71.728	816.355	3.43%	42.22%
16.0	2281.274	70.017	886.372	3.35%	45.84%
17.0	2088.298	68.046	954.418	3.25%	49.36%
18.0	1927.149	66.206	1020.624	3.17%	52.78%
19.0	1763.372	64.208	1084.831	3.07%	56.10%
20.0	1622.981	61.980	1146.811	2.96%	59.30%
21.0	1496.014	59.891	1206.702	2.86%	62.40%
22.0	1356.910	57.331	1264.033	2.74%	65.37%
23.0	1218.063	54.030	1318.063	2.58%	68.16%
24.0	1164.854	52.099	1370.162	2.49%	70.85%
25.0	1091.469	51.304	1421.466	2.45%	73.51%
26.0	1001.616	49.408	1470.873	2.36%	76.06%
27.0	919.458	47.000	1517.873	2.25%	78.49%
28.0	836.670	44.461	1562.334	2.13%	80.79%
29.0	756.144	41.673	1604.007	1.99%	82.95%
30.0	673.411	38.598	1642.604	1.85%	84.94%
31.0	588.886	35.128	1677.732	1.68%	86.76%
32.0	506.174	31.372	1709.104	1.50%	88.38%
33.0	428.617	27.539	1736.644	1.32%	89.81%
34.0	362.379	23.938	1760.582	1.14%	91.04%
35.0	294.993	20.416	1780.997	0.98%	92.10%
36.0	249.423	17.334	1798.331	0.83%	93.00%
37.0	226.202	15.512	1813.844	0.74%	93.80%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	153.094	12.660	1826.504	0.61%	94.45%
39.0	116.353	9.197	1835.701	0.44%	94.93%
40.0	91.465	7.248	1842.949	0.35%	95.30%
41.0	72.728	5.847	1848.796	0.28%	95.61%
42.0	59.560	4.806	1853.602	0.23%	95.85%
43.0	50.192	4.066	1857.668	0.19%	96.06%
44.0	43.349	3.530	1861.198	0.17%	96.25%
45.0	38.159	3.132	1864.331	0.15%	96.41%
46.0	33.959	2.820	1867.151	0.13%	96.56%
47.0	30.957	2.582	1869.733	0.12%	96.69%
48.0	28.542	2.405	1872.138	0.12%	96.81%
49.0	26.646	2.266	1874.404	0.11%	96.93%
50.0	25.214	2.162	1876.567	0.10%	97.04%
51.0	24.217	2.091	1878.658	0.10%	97.15%
52.0	23.442	2.045	1880.703	0.10%	97.26%
53.0	22.923	2.017	1882.72	0.10%	97.36%
54.0	22.605	2.007	1884.727	0.10%	97.46%
55.0	22.377	2.008	1886.735	0.10%	97.57%
56.0	22.266	2.017	1888.752	0.10%	97.67%
57.0	22.121	2.029	1890.781	0.10%	97.78%
58.0	21.927	2.037	1892.818	0.10%	97.88%
59.0	21.616	2.036	1894.854	0.10%	97.99%
60.0	21.104	2.018	1896.872	0.10%	98.09%
61.0	20.384	1.980	1898.852	0.09%	98.19%
62.0	19.436	1.919	1900.771	0.09%	98.29%
63.0	18.495	1.845	1902.615	0.09%	98.39%
64.0	17.436	1.763	1904.379	0.08%	98.48%
65.0	16.309	1.670	1906.049	0.08%	98.57%
66.0	15.243	1.574	1907.623	0.08%	98.65%
67.0	14.309	1.486	1909.109	0.07%	98.72%
68.0	13.541	1.411	1910.52	0.07%	98.80%
69.0	12.814	1.345	1911.864	0.06%	98.87%
70.0	12.316	1.291	1913.155	0.06%	98.93%
71.0	11.880	1.251	1914.405	0.06%	99.00%
72.0	11.548	1.218	1915.624	0.06%	99.06%
73.0	11.237	1.191	1916.815	0.06%	99.12%
74.0	10.953	1.167	1917.982	0.06%	99.18%
75.0	10.676	1.143	1919.124	0.05%	99.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.406	1.119	1920.244	0.05%	99.30%
77.0	10.157	1.096	1921.34	0.05%	99.36%
78.0	9.908	1.074	1922.414	0.05%	99.41%
79.0	9.680	1.052	1923.467	0.05%	99.47%
80.0	9.452	1.031	1924.498	0.05%	99.52%
81.0	9.216	1.010	1925.508	0.05%	99.57%
82.0	9.016	0.989	1926.496	0.05%	99.62%
83.0	8.794	0.968	1927.464	0.05%	99.67%
84.0	8.621	0.949	1928.413	0.05%	99.72%
85.0	8.441	0.931	1929.344	0.04%	99.77%
86.0	8.282	0.914	1930.259	0.04%	99.82%
87.0	8.137	0.899	1931.157	0.04%	99.86%
88.0	7.978	0.883	1932.04	0.04%	99.91%
89.0	7.867	0.868	1932.908	0.04%	99.96%
90.0	7.826	0.860	1933.769	0.04%	100.00%

Zonal flux distribution table

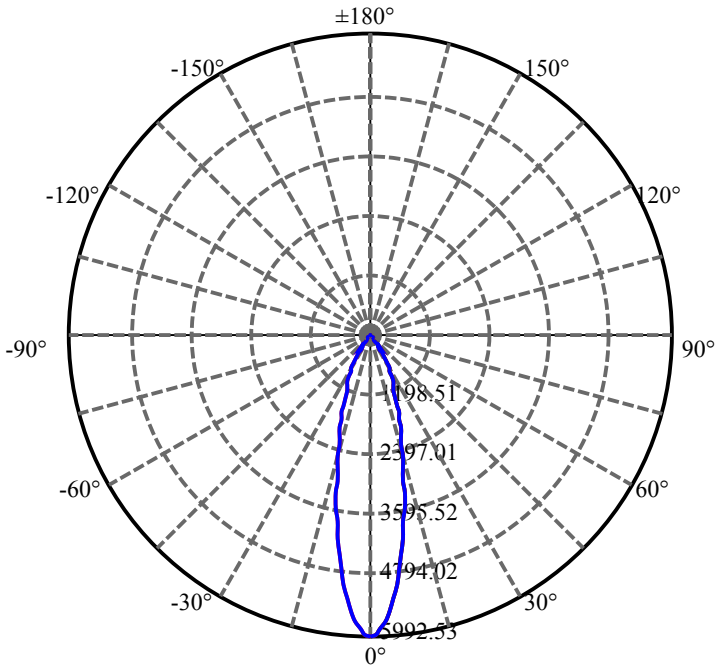
ZONAL LUMEN SUMMARY

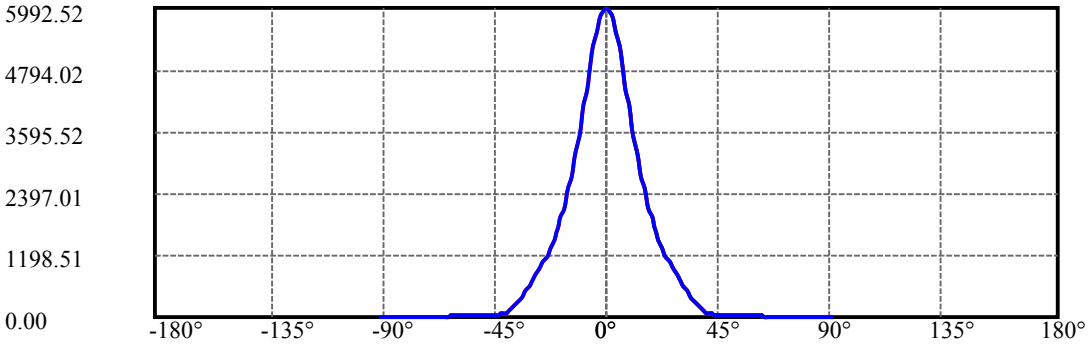
Zone	Lumens	%Lamp	%Fixt
0-30	1642.60	78.55%	84.94%
0-40	1842.95	88.13%	95.30%
0-60	1896.87	90.71%	98.09%
0-90	1932.91	92.43%	99.96%
0-120	1932.91	92.43%	99.96%
0-180	1933.77	92.47%	100.00%
60-90	36.04	1.72%	1.86%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.66	1547.02	73.98%	80.00%

ZONAL LUMEN SUMMARY

0-10	452.17
10-20	694.65
20-30	495.79
30-40	200.34
40-50	33.62
50-60	20.31
60-70	16.28
70-80	11.34
80-90	8.41
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):

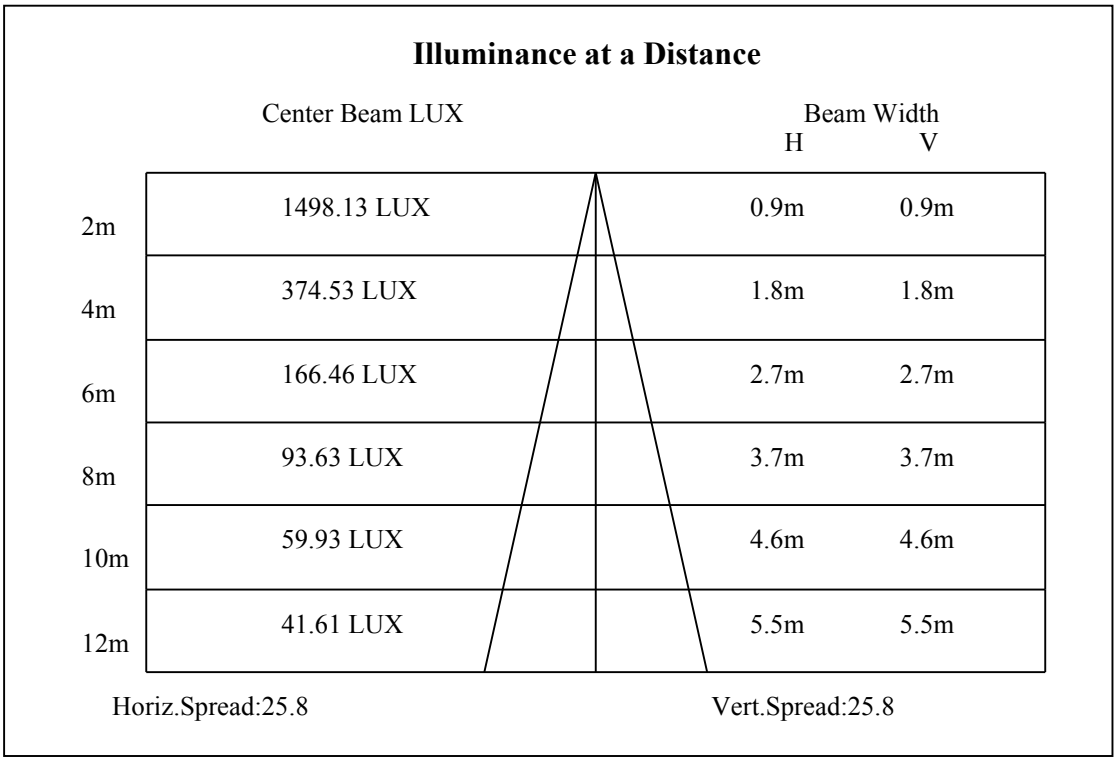
C0/C180:

C90/C270:

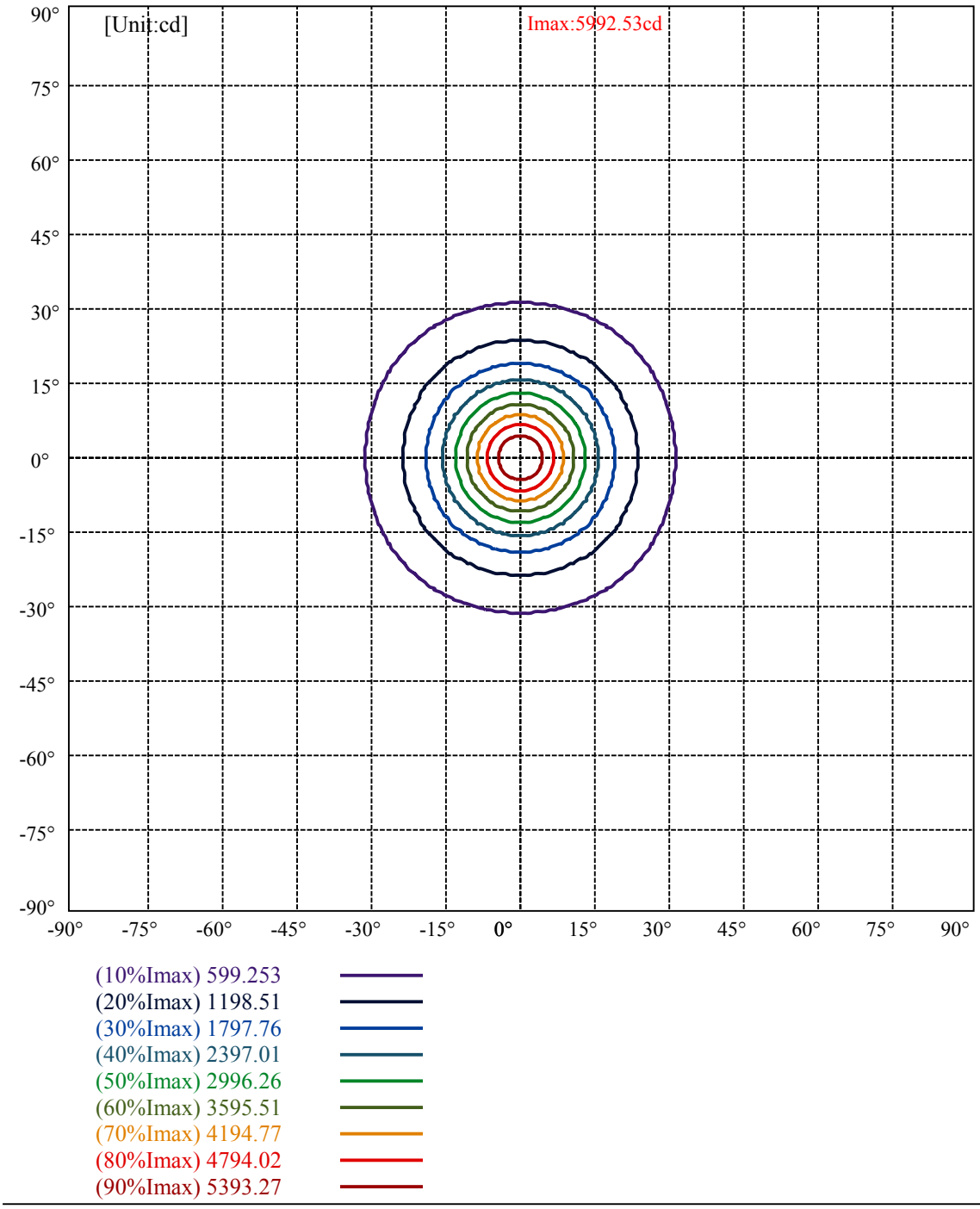
Field angle(10%Imax):C0/180Left:30.9 Right:30.9
:C90/270Left:30.9 Right:30.9

Beam Angle(50%Imax):C0/180Left:12.9 Right:12.9
:C90/270Left:12.9 Right:12.9

Lux distance Curve



ISO-Intensity(V-H)

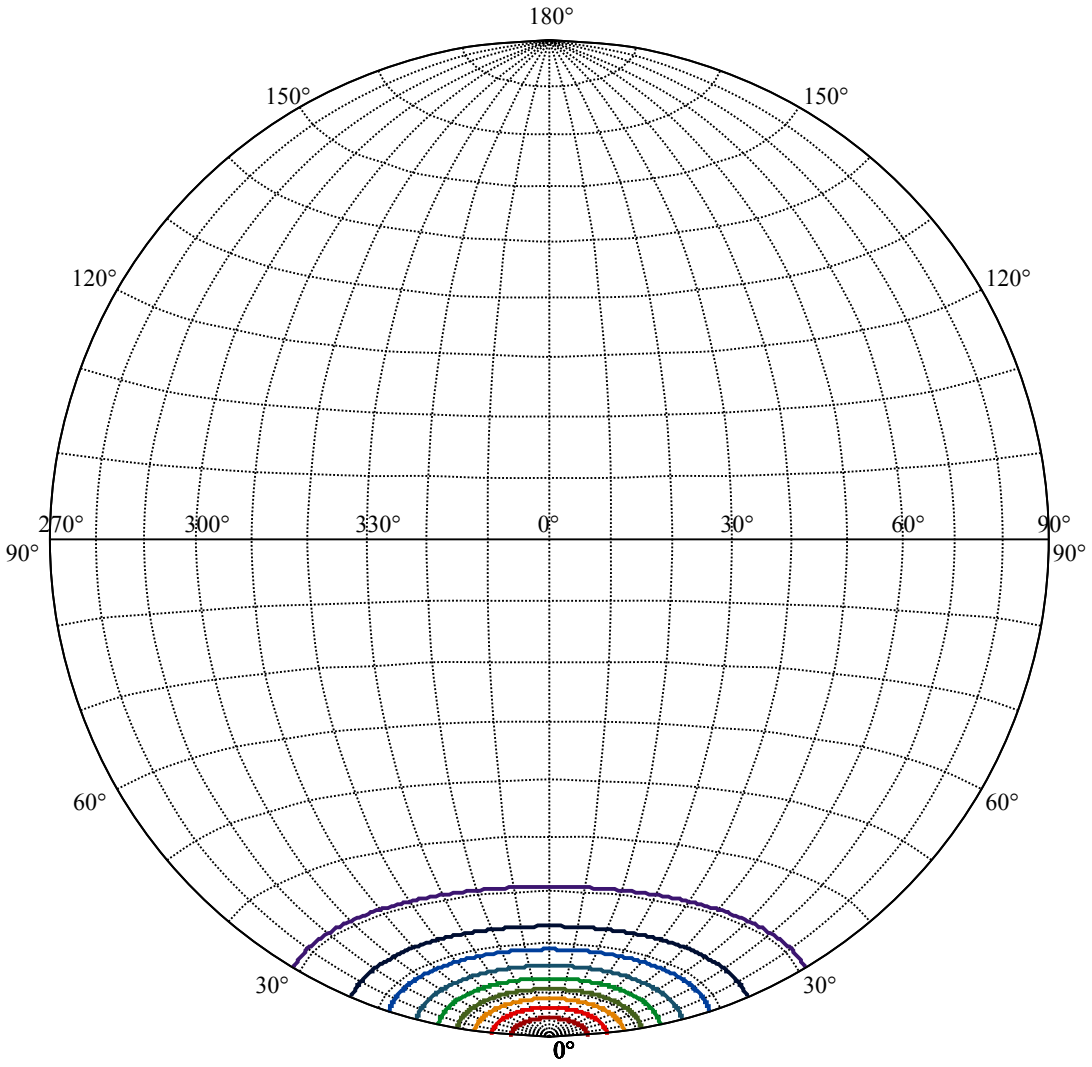


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



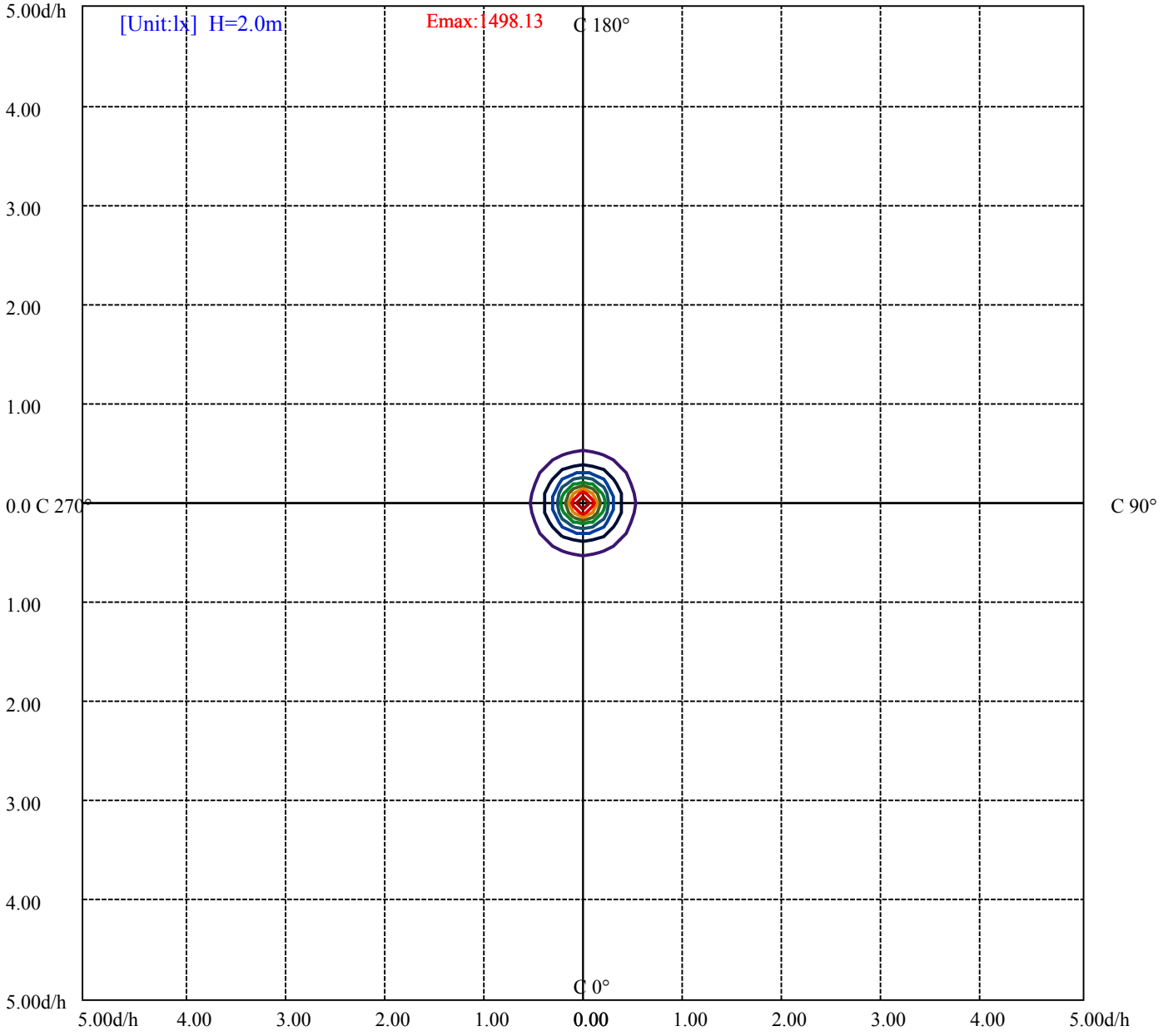
House [Unit:cd] Road

Imax:5992.53

(10%Imax) 599.253
(20%Imax) 1198.51
(30%Imax) 1797.76
(40%Imax) 2397.01
(50%Imax) 2996.26
(60%Imax) 3595.51
(70%Imax) 4194.77
(80%Imax) 4794.02
(90%Imax) 5393.27

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

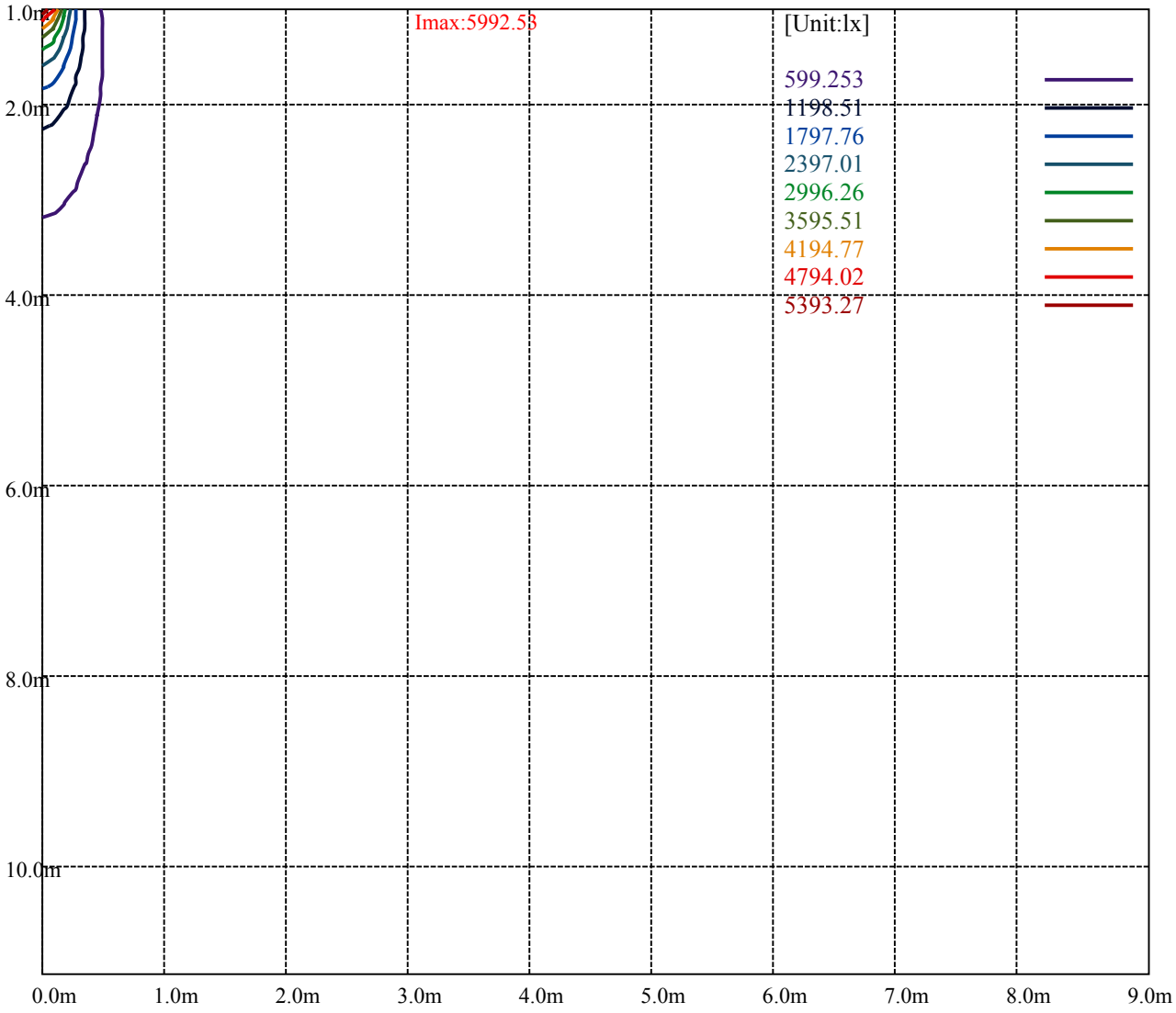
ISO illuminance diagram



(10%Emax) 149.813
(20%Emax) 299.625
(30%Emax) 449.44
(40%Emax) 599.2525
(50%Emax) 749.065
(60%Emax) 898.8775
(70%Emax) 1048.69
(80%Emax) 1198.505
(90%Emax) 1348.318

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

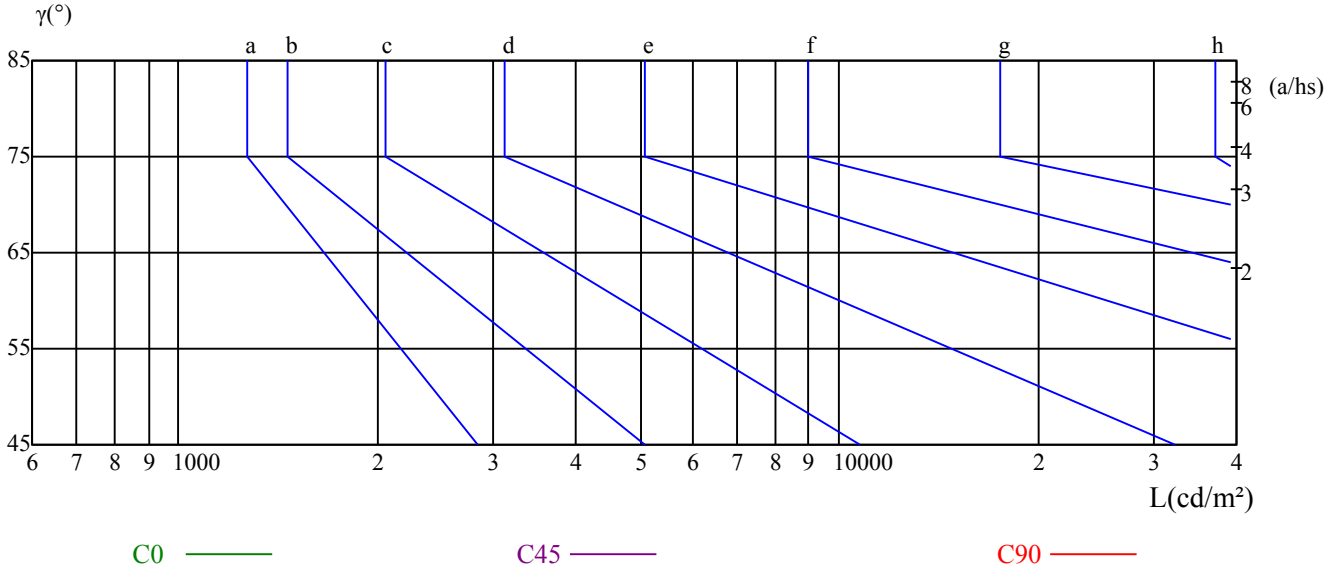
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

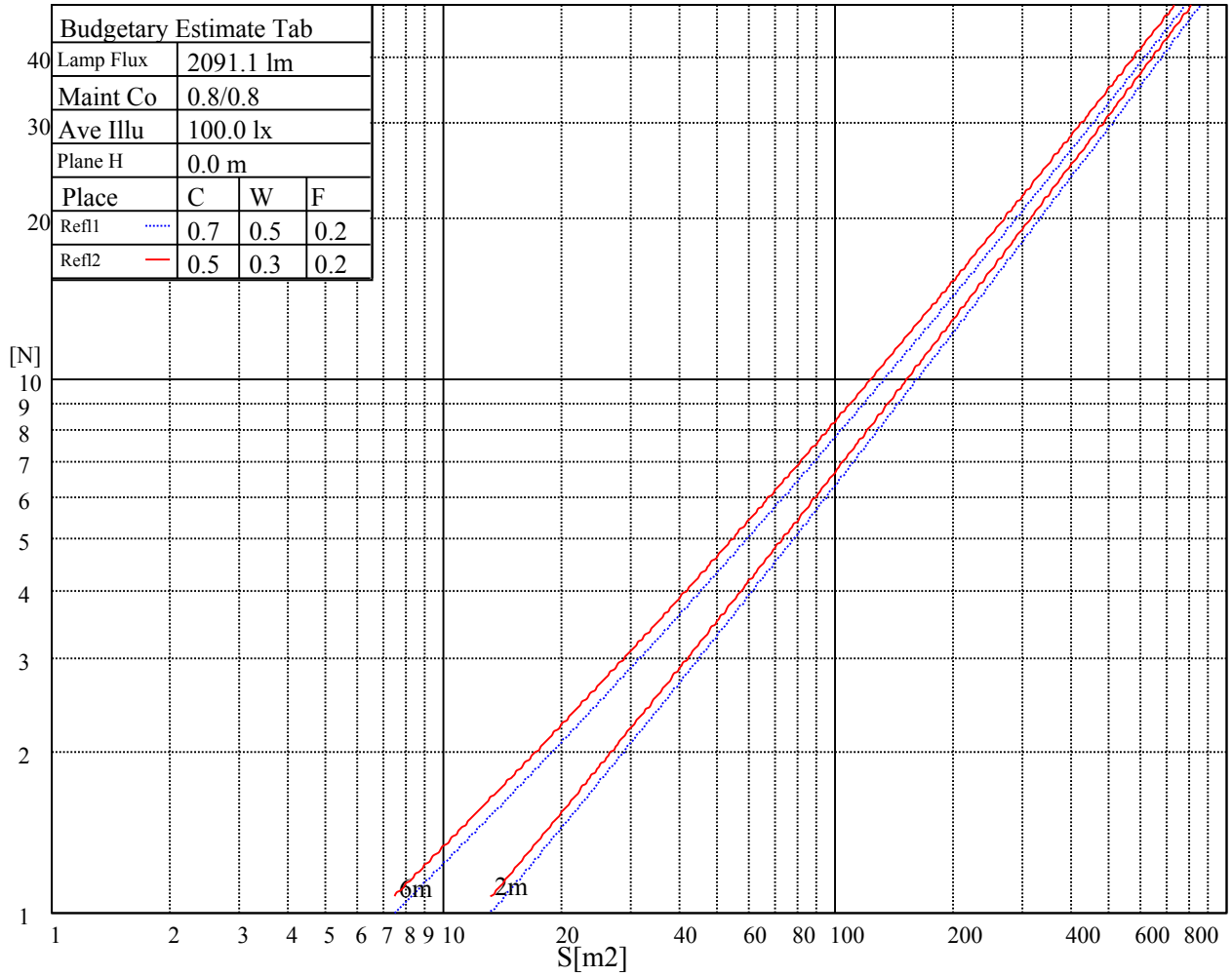


UGR Glare

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

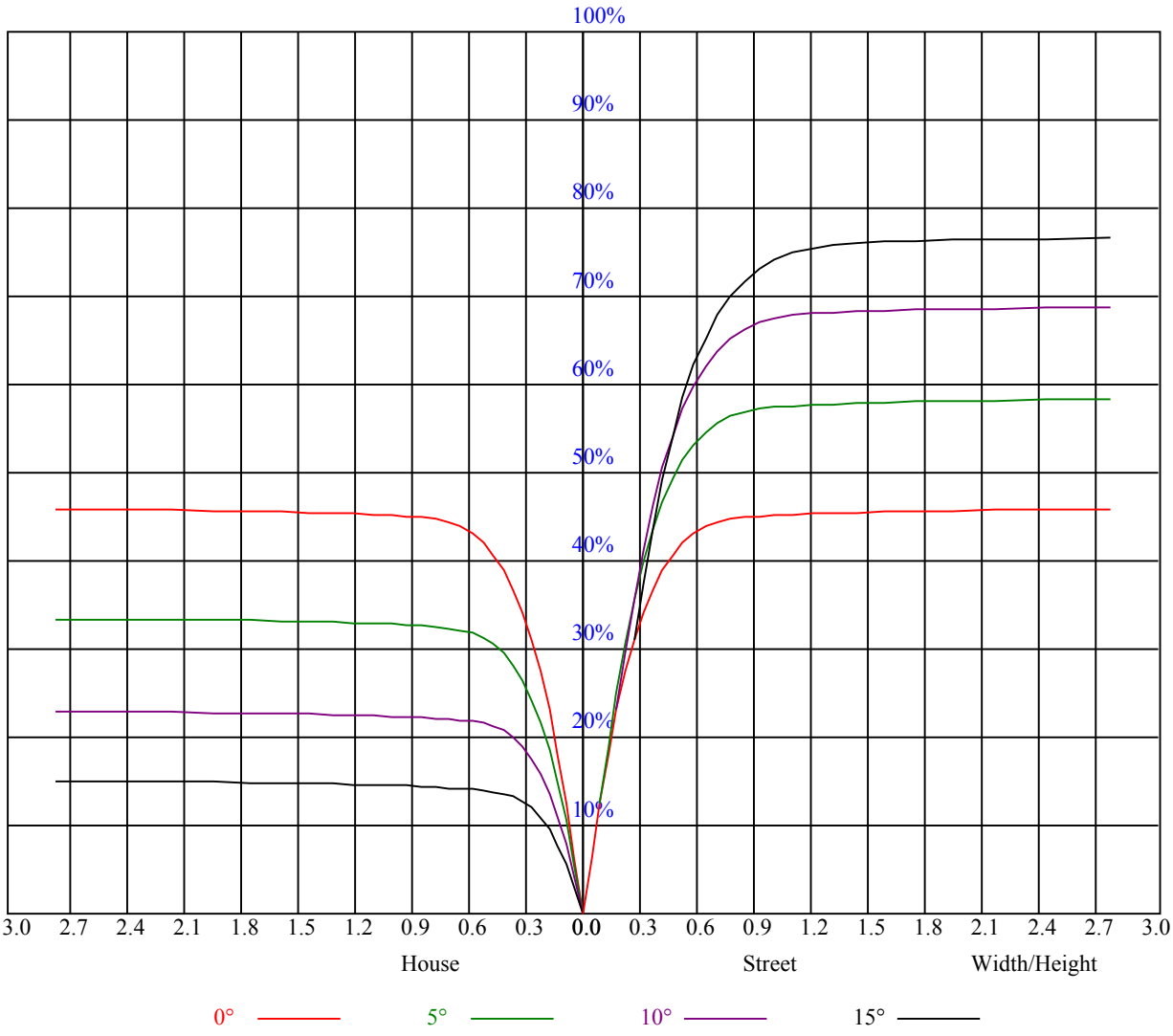


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.84	0.83
3	0.92	0.88	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
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	0.74	0.80	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
7	0.75	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
8	0.72	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.62
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.60
10	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58

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	5966.51	5804.88	5635.49	5457.26	5224.22	4910.92	4637.47	4358.49	3993.71
45.0	6024.08	5982.56	5889.01	5741.77	5505.41	5285.66	5028.82	4698.91	4426.57
90.0	5975.37	5906.73	5734.02	5536.41	5320.53	4996.71	4736.55	4465.32	4098.88
135.0	6004.15	5969.83	5860.78	5707.45	5520.36	5246.91	4985.64	4718.29	4387.82
180.0	5966.51	6025.74	6008.58	5882.93	5726.27	5507.63	5289.53	5036.02	4763.12
225.0	6024.08	5974.81	5858.02	5653.21	5479.40	5241.38	4924.75	4640.79	4351.29
270.0	5975.37	6019.10	5986.44	5833.11	5683.65	5505.41	5285.11	4968.48	4683.41
315.0	6004.15	5962.08	5799.89	5659.85	5477.74	5246.36	4931.40	4655.18	4360.15
360.0	5966.51	5804.88	5635.49	5457.26	5224.22	4910.92	4637.47	4358.49	3993.71

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3693.69	3433.53	3202.15	2900.47	2684.04	2477.02	2236.23	2066.29	1870.34
45.0	4138.18	3843.15	3564.16	3274.66	3025.02	2736.63	2520.19	2313.17	2089.54
90.0	3806.61	3521.54	3225.40	2974.65	2747.70	2535.69	2288.82	2108.36	1951.71
135.0	4106.63	3823.77	3539.25	3243.11	2997.90	2768.18	2555.62	2301.55	2122.76
180.0	4423.80	4132.64	3835.40	3555.31	3251.42	3006.75	2777.03	2504.14	2302.65
225.0	4041.86	3679.85	3447.37	3206.03	2964.68	2682.93	2472.04	2279.96	2063.53
270.0	4395.02	4031.35	3755.69	3436.30	3175.03	2934.24	2707.29	2446.57	2248.41
315.0	4044.63	3698.12	3446.26	3149.01	2908.78	2679.61	2420.00	2230.14	2057.44
360.0	3693.69	3433.53	3202.15	2900.47	2684.04	2477.02	2236.23	2066.29	1870.34

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1728.64	1599.66	1480.10	1372.71	1093.51	1093.51	1073.03	995.09	900.49
45.0	1932.34	1791.74	1628.45	1508.88	1402.60	1306.29	1192.81	1112.55	1029.52
90.0	1807.24	1646.71	1524.94	1391.53	1295.77	1097.22	1097.22	1020.89	945.99
135.0	1962.78	1782.33	1656.68	1508.88	1401.50	1304.63	1213.30	1108.68	1023.99
180.0	2141.58	1926.80	1785.10	1652.80	1508.33	1400.94	1299.65	1204.44	1099.82
225.0	1903.00	1727.53	1595.79	1474.56	1343.93	1091.57	1091.57	1070.15	987.84
270.0	2084.56	1915.73	1729.74	1596.34	1478.44	1346.14	1247.06	1153.51	1056.64
315.0	1857.06	1716.46	1583.06	1462.39	1331.20	1104.19	1104.19	1066.44	968.63
360.0	1728.64	1599.66	1480.10	1372.71	1093.51	1093.51	1073.03	995.09	900.49

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	822.94	743.56	667.01	569.15	494.31	405.96	343.36	286.34	221.80
45.0	953.13	856.26	780.43	705.70	610.49	535.21	445.54	379.67	318.78
90.0	854.00	778.77	703.93	628.87	534.00	459.71	391.24	328.30	256.62
135.0	948.15	872.32	779.32	703.49	624.33	549.61	458.27	392.40	318.23
180.0	1015.68	939.85	842.43	763.82	686.33	604.96	510.30	438.90	360.30
225.0	892.02	813.53	736.76	657.49	559.96	484.12	415.21	338.21	282.19
270.0	977.49	876.19	802.57	720.09	640.39	544.07	468.79	400.15	337.60
315.0	892.24	812.87	736.70	638.67	561.29	465.75	396.22	335.06	264.42
360.0	822.94	743.56	667.01	569.15	494.31	405.96	343.36	286.34	221.80

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	179.40	144.36	108.83	87.62	71.57	59.56	49.26	43.18	38.36
45.0	290.55	290.55	154.22	121.22	96.04	73.18	60.28	51.09	44.34
90.0	207.08	165.62	130.47	97.15	77.88	60.89	51.48	44.50	37.97
135.0	290.00	290.00	157.26	124.21	98.36	74.84	61.50	51.81	44.62
180.0	301.07	287.23	224.62	149.57	118.73	94.65	72.79	60.22	51.37
225.0	231.93	178.35	142.70	113.42	86.24	70.47	58.67	50.26	42.46
270.0	280.03	280.03	168.61	133.96	99.86	80.43	65.93	53.42	46.22
315.0	215.33	173.48	138.05	103.68	83.03	67.81	56.57	47.05	41.46
360.0	179.40	144.36	108.83	87.62	71.57	59.56	49.26	43.18	38.36

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	34.65	31.00	28.78	26.68	25.41	24.41	23.53	23.03	22.69
45.0	38.19	34.43	31.33	28.40	26.68	25.08	24.24	23.58	23.08
90.0	34.15	31.05	28.62	26.51	25.13	24.19	23.58	23.03	22.81
135.0	38.08	34.15	31.05	28.67	26.46	25.13	24.13	23.47	23.08
180.0	44.45	38.30	34.54	31.50	29.17	26.96	25.57	24.30	23.58
225.0	37.86	34.26	30.67	28.51	26.74	25.08	24.08	23.36	22.69
270.0	40.80	35.59	32.44	29.89	27.40	25.91	24.63	23.69	22.86
315.0	37.09	32.88	30.22	28.17	26.18	24.96	23.97	23.08	22.58
360.0	34.65	31.00	28.78	26.68	25.41	24.41	23.53	23.03	22.69

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.42	22.20	22.03	21.70	21.53	20.81	20.04	19.26	18.10
45.0	22.86	22.64	22.64	22.53	22.25	22.03	21.59	20.81	19.71
90.0	22.69	22.69	22.64	22.53	22.25	21.86	21.03	19.98	18.93
135.0	22.81	22.69	22.75	22.69	22.53	22.36	21.92	21.15	19.98
180.0	23.08	22.69	22.53	22.47	22.42	22.14	21.98	21.48	20.76
225.0	22.36	22.14	21.98	21.75	21.53	21.31	20.65	19.98	19.21
270.0	22.36	22.03	21.81	21.64	21.48	21.26	21.03	20.48	19.65
315.0	22.25	21.92	21.75	21.64	21.42	21.15	20.59	19.93	19.15
360.0	22.42	22.20	22.03	21.70	21.53	20.81	20.04	19.26	18.10

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.16	16.16	14.95	14.17	13.23	12.68	12.23	11.85	11.51
45.0	18.82	17.55	16.44	15.39	14.39	13.56	12.90	12.34	11.96
90.0	17.88	16.77	15.33	14.50	13.67	12.95	12.29	11.96	11.51
135.0	19.10	18.05	16.94	15.55	14.67	13.89	12.95	12.45	11.96
180.0	19.76	18.76	17.77	16.44	15.33	14.28	13.51	12.90	12.29
225.0	18.27	17.10	16.11	15.11	14.12	13.40	12.62	12.18	11.79
270.0	18.88	17.99	17.05	15.83	14.89	14.12	13.34	12.62	12.18
315.0	18.10	17.10	15.89	14.95	14.17	13.45	12.68	12.23	11.85
360.0	17.16	16.16	14.95	14.17	13.23	12.68	12.23	11.85	11.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.18	10.90	10.68	10.41	10.13	9.91	9.63	9.47	9.24
45.0	11.62	11.29	11.02	10.74	10.46	10.24	9.96	9.74	9.58
90.0	11.24	10.96	10.63	10.41	10.19	9.91	9.69	9.47	9.24
135.0	11.62	11.29	11.02	10.68	10.46	10.24	10.02	9.74	9.52
180.0	11.90	11.62	11.29	10.96	10.68	10.46	10.19	9.96	9.69
225.0	11.51	11.18	10.85	10.63	10.41	10.07	9.85	9.63	9.35
270.0	11.85	11.46	11.18	10.90	10.57	10.30	10.02	9.80	9.58
315.0	11.46	11.18	10.96	10.68	10.35	10.13	9.91	9.63	9.41
360.0	11.18	10.90	10.68	10.41	10.13	9.91	9.63	9.47	9.24

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.02	8.80	8.64	8.47	8.25	8.14	8.03	7.86	7.86
45.0	9.24	9.08	8.80	8.69	8.47	8.30	8.14	7.97	7.86
90.0	8.97	8.80	8.64	8.47	8.30	8.19	8.03	7.92	7.80
135.0	9.30	9.08	8.86	8.64	8.47	8.25	8.14	7.97	7.86
180.0	9.47	9.24	8.97	8.75	8.58	8.41	8.25	8.08	7.97
225.0	9.19	8.97	8.75	8.58	8.41	8.25	8.14	7.97	7.80
270.0	9.35	9.13	8.91	8.75	8.58	8.41	8.25	8.08	7.92
315.0	9.19	9.02	8.80	8.64	8.47	8.30	8.14	7.97	7.86
360.0	9.02	8.80	8.64	8.47	8.25	8.14	8.03	7.86	7.86

Intensity data(cd)

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