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NT

LumCAT: 2-2642-L
Luminaire: 92.70.412.00
LampCAT: P2141-036-1206-P3090-1
Ballast type: AC

Report No: 20231117-B009	Voltage(V): 35.8900
Test No: 20231117-C009	Current(A): 0.7000
Number of Lamps: 1	Power (W): 25.1230
Lamp flux(lm): 3111.0	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2881.42, Efficiency(%): 92.62% , Luminous Efficacy(lm/W): 114.69
Central intensity(cd): 4381.514, Maximum intensity(cd): 4381.514
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=49.0
[C90/270]Total=49.0
Field angle(10%Imax): [C0/180]Total=72.8
[C90/270]Total=72.8
Maximum s/h(1/2): C0_180=0.78 C90_270=0.78
Maximum s/h(1/4): C0_180=0.76 C90_270=0.76
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.62%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.906%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4381.514	0.000	0	0.00%	0.00%
1.0	4379.646	4.192	4.192	0.13%	0.15%
2.0	4375.633	12.566	16.758	0.40%	0.58%
3.0	4367.122	20.910	37.668	0.67%	1.31%
4.0	4353.215	29.190	66.858	0.94%	2.32%
5.0	4332.665	37.366	104.224	1.20%	3.62%
6.0	4300.144	45.368	149.592	1.46%	5.19%
7.0	4254.478	53.098	202.69	1.71%	7.03%
8.0	4185.770	60.405	263.096	1.94%	9.13%
9.0	4094.990	67.111	330.207	2.16%	11.46%
10.0	3999.367	73.251	403.458	2.35%	14.00%
11.0	3905.612	78.987	482.445	2.54%	16.74%
12.0	3799.333	84.226	566.671	2.71%	19.67%
13.0	3700.457	89.004	655.674	2.86%	22.76%
14.0	3596.116	93.395	749.07	3.00%	26.00%
15.0	3490.114	97.283	846.353	3.13%	29.37%
16.0	3366.814	100.473	946.826	3.23%	32.86%
17.0	3243.306	102.937	1049.763	3.31%	36.43%
18.0	3117.792	104.881	1154.644	3.37%	40.07%
19.0	2995.737	106.363	1261.007	3.42%	43.76%
20.0	2872.437	107.404	1368.411	3.45%	47.49%
21.0	2728.656	107.552	1475.963	3.46%	51.22%
22.0	2583.491	106.750	1582.713	3.43%	54.93%
23.0	2433.483	105.270	1687.982	3.38%	58.58%
24.0	2276.002	102.966	1790.949	3.31%	62.15%
25.0	2117.344	99.895	1890.844	3.21%	65.62%
26.0	1962.839	96.313	1987.157	3.10%	68.96%
27.0	1803.974	92.156	2079.313	2.96%	72.16%
28.0	1647.669	87.388	2166.701	2.81%	75.20%
29.0	1432.005	80.573	2247.274	2.59%	77.99%
30.0	1248.044	72.361	2319.635	2.33%	80.50%
31.0	1135.669	66.335	2385.97	2.13%	82.81%
32.0	1001.741	61.234	2447.204	1.97%	84.93%
33.0	852.909	54.639	2501.843	1.76%	86.83%
34.0	712.581	47.376	2549.219	1.52%	88.47%
35.0	583.821	40.261	2589.481	1.29%	89.87%
36.0	477.335	33.787	2623.268	1.09%	91.04%
37.0	388.831	28.249	2651.518	0.91%	92.02%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	312.014	23.393	2674.911	0.75%	92.83%
39.0	257.297	19.432	2694.343	0.62%	93.51%
40.0	229.240	16.969	2711.312	0.55%	94.10%
41.0	181.677	14.633	2725.944	0.47%	94.60%
42.0	132.191	11.403	2737.348	0.37%	95.00%
43.0	111.129	9.013	2746.361	0.29%	95.31%
44.0	95.277	7.790	2754.151	0.25%	95.58%
45.0	83.273	6.862	2761.013	0.22%	95.82%
46.0	73.606	6.135	2767.149	0.20%	96.03%
47.0	66.051	5.555	2772.703	0.18%	96.23%
48.0	59.872	5.090	2777.794	0.16%	96.40%
49.0	55.056	4.720	2782.513	0.15%	96.57%
50.0	50.752	4.412	2786.925	0.14%	96.72%
51.0	47.106	4.140	2791.065	0.13%	96.86%
52.0	44.048	3.911	2794.976	0.13%	97.00%
53.0	41.474	3.720	2798.696	0.12%	97.13%
54.0	39.239	3.557	2802.254	0.11%	97.25%
55.0	37.267	3.415	2805.669	0.11%	97.37%
56.0	35.495	3.288	2808.957	0.11%	97.49%
57.0	33.953	3.175	2812.132	0.10%	97.60%
58.0	32.555	3.076	2815.208	0.10%	97.70%
59.0	31.275	2.984	2818.192	0.10%	97.81%
60.0	30.133	2.901	2821.093	0.09%	97.91%
61.0	29.102	2.827	2823.92	0.09%	98.00%
62.0	28.099	2.756	2826.676	0.09%	98.10%
63.0	27.213	2.690	2829.366	0.09%	98.19%
64.0	26.369	2.629	2831.996	0.08%	98.28%
65.0	25.594	2.572	2834.567	0.08%	98.37%
66.0	24.819	2.515	2837.082	0.08%	98.46%
67.0	24.058	2.458	2839.54	0.08%	98.55%
68.0	23.359	2.402	2841.942	0.08%	98.63%
69.0	22.674	2.348	2844.291	0.08%	98.71%
70.0	22.003	2.295	2846.585	0.07%	98.79%
71.0	21.353	2.241	2848.826	0.07%	98.87%
72.0	20.681	2.186	2851.012	0.07%	98.94%
73.0	20.073	2.131	2853.143	0.07%	99.02%
74.0	19.443	2.077	2855.22	0.07%	99.09%
75.0	18.862	2.024	2857.244	0.07%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	18.239	1.969	2859.213	0.06%	99.23%
77.0	17.651	1.913	2861.127	0.06%	99.30%
78.0	17.063	1.858	2862.985	0.06%	99.36%
79.0	16.461	1.801	2864.786	0.06%	99.42%
80.0	15.907	1.745	2866.531	0.06%	99.48%
81.0	15.354	1.691	2868.222	0.05%	99.54%
82.0	14.828	1.637	2869.859	0.05%	99.60%
83.0	14.323	1.585	2871.443	0.05%	99.65%
84.0	13.880	1.536	2872.98	0.05%	99.71%
85.0	13.486	1.494	2874.473	0.05%	99.76%
86.0	13.126	1.455	2875.928	0.05%	99.81%
87.0	12.828	1.420	2877.348	0.05%	99.86%
88.0	12.496	1.387	2878.736	0.04%	99.91%
89.0	12.219	1.355	2880.09	0.04%	99.95%
90.0	12.116	1.334	2881.424	0.04%	100.00%

Zonal flux distribution table

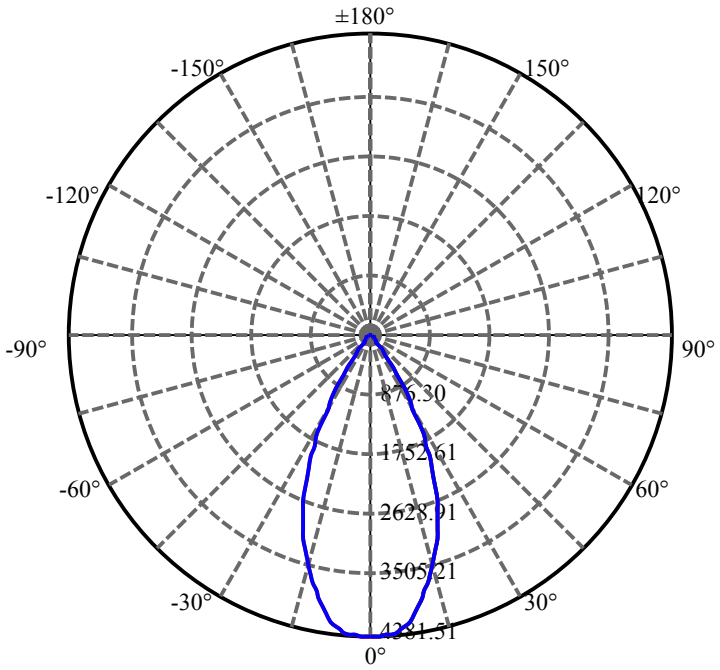
ZONAL LUMEN SUMMARY

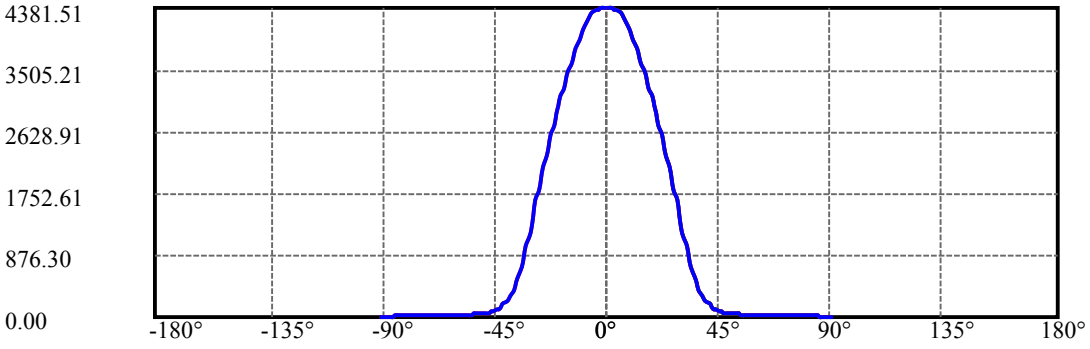
Zone	Lumens	%Lamp	%Fixt
0-30	2319.63	74.56%	80.50%
0-40	2711.31	87.15%	94.10%
0-60	2821.09	90.68%	97.91%
0-90	2880.09	92.58%	99.95%
0-120	2880.09	92.58%	99.95%
0-180	2881.42	92.62%	100.00%
60-90	59.00	1.90%	2.05%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.80	2305.14	74.10%	80.00%

ZONAL LUMEN SUMMARY

0-10	403.46
10-20	964.95
20-30	951.22
30-40	391.68
40-50	75.61
50-60	34.17
60-70	25.49
70-80	19.95
80-90	13.56
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):

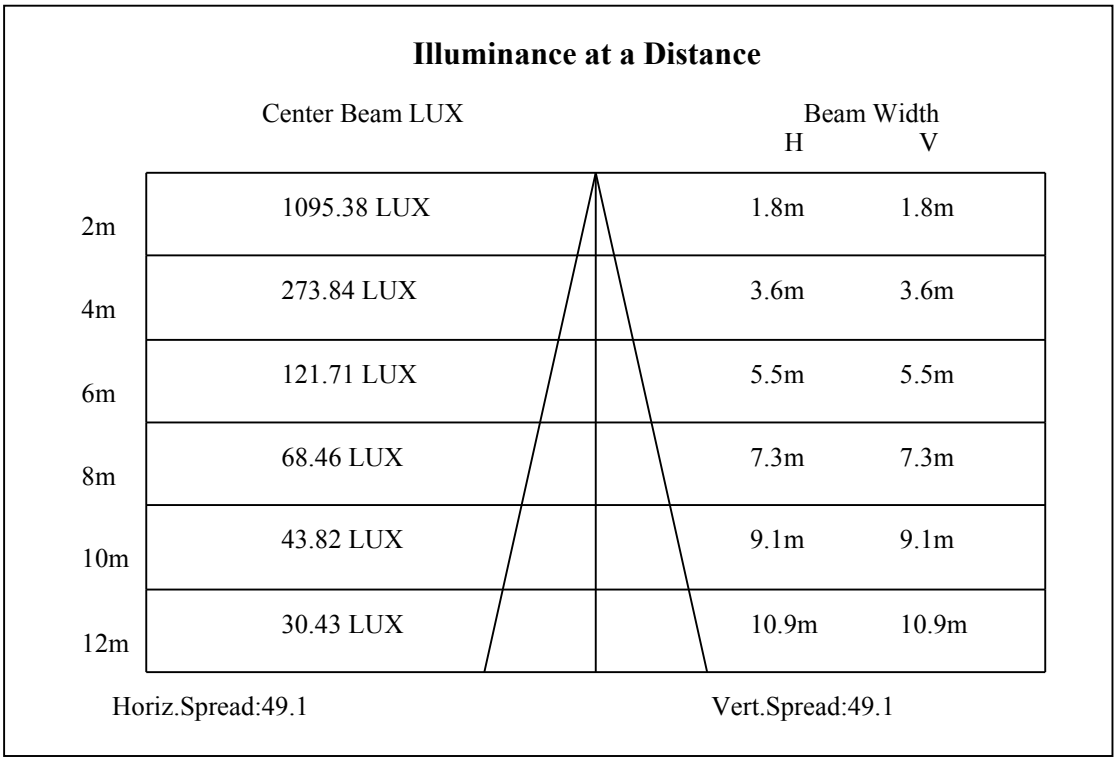
C0/C180:

C90/C270:

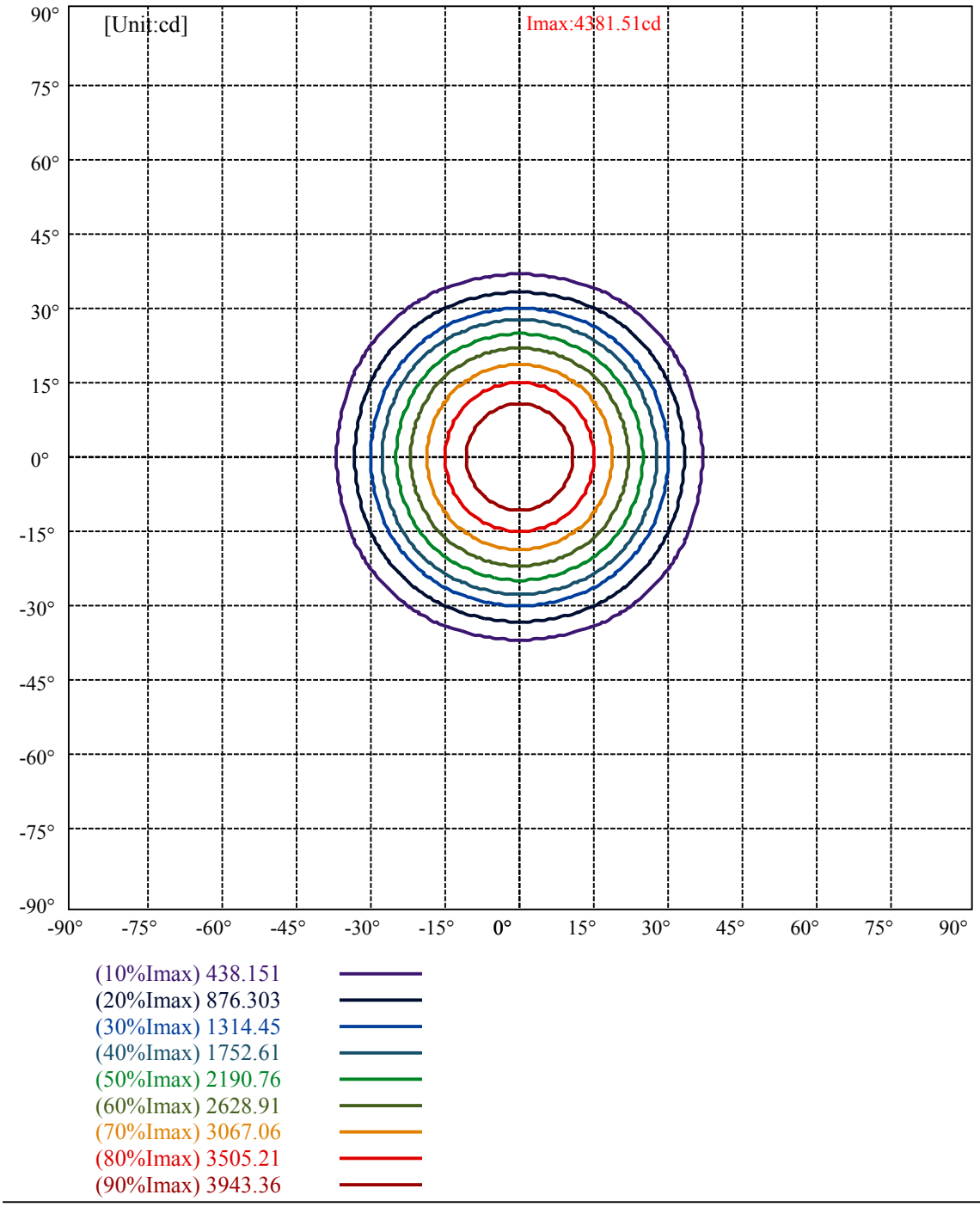
Field angle(10%Imax):C0/180Left:36.4 Right:36.4
:C90/270Left:36.4 Right:36.4

Beam Angle(50%Imax):C0/180Left:24.5 Right:24.5
:C90/270Left:24.5 Right:24.5

Lux distance Curve



ISO-Intensity(V-H)

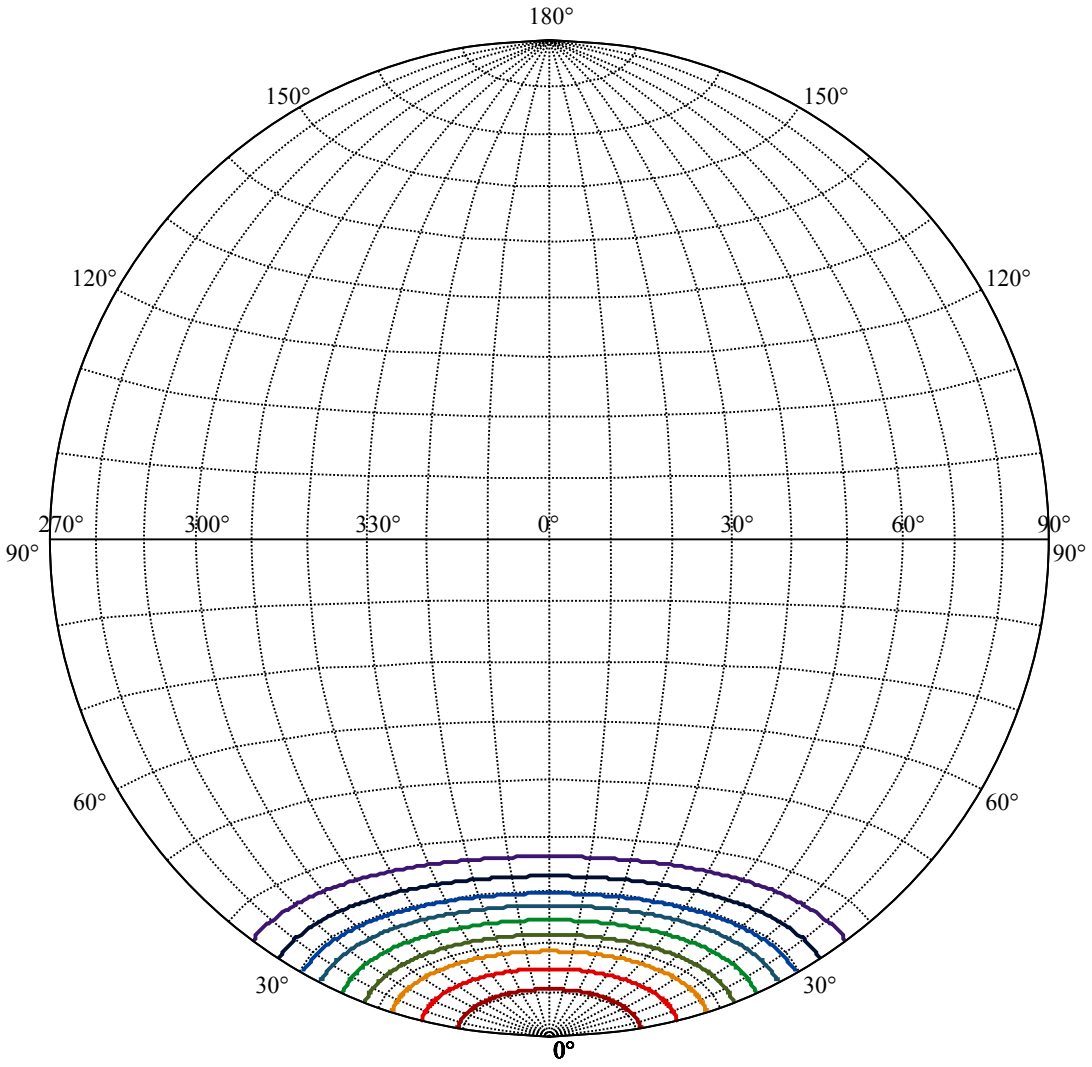


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

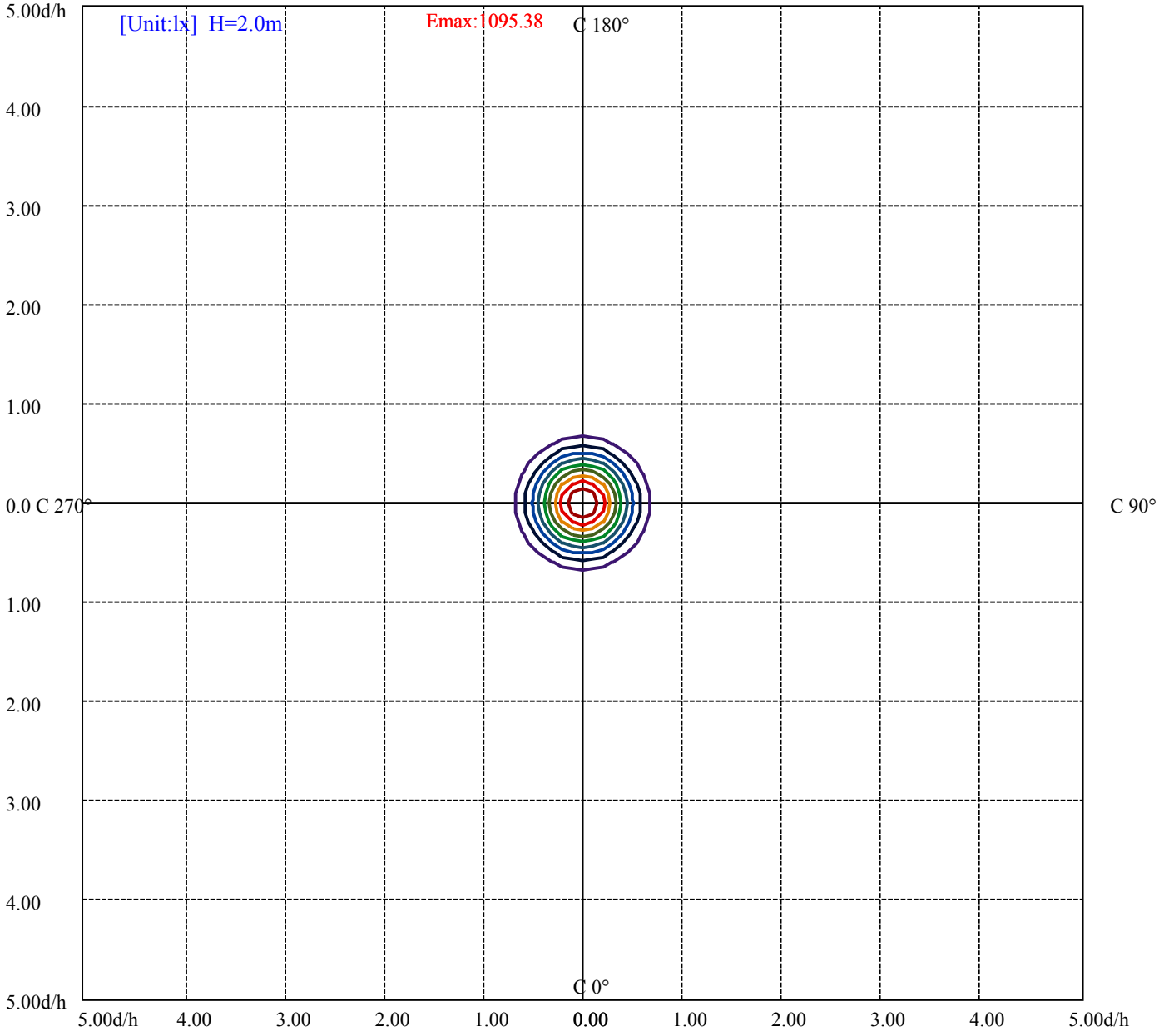
Imax:4381.51

(10%Imax) 438.151
(20%Imax) 876.303
(30%Imax) 1314.45
(40%Imax) 1752.61
(50%Imax) 2190.76
(60%Imax) 2628.91
(70%Imax) 3067.06
(80%Imax) 3505.21
(90%Imax) 3943.36

Equipment: GMS1980 Date: 2023/11/17 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

NT 2-2642-L

ISO illuminance diagram

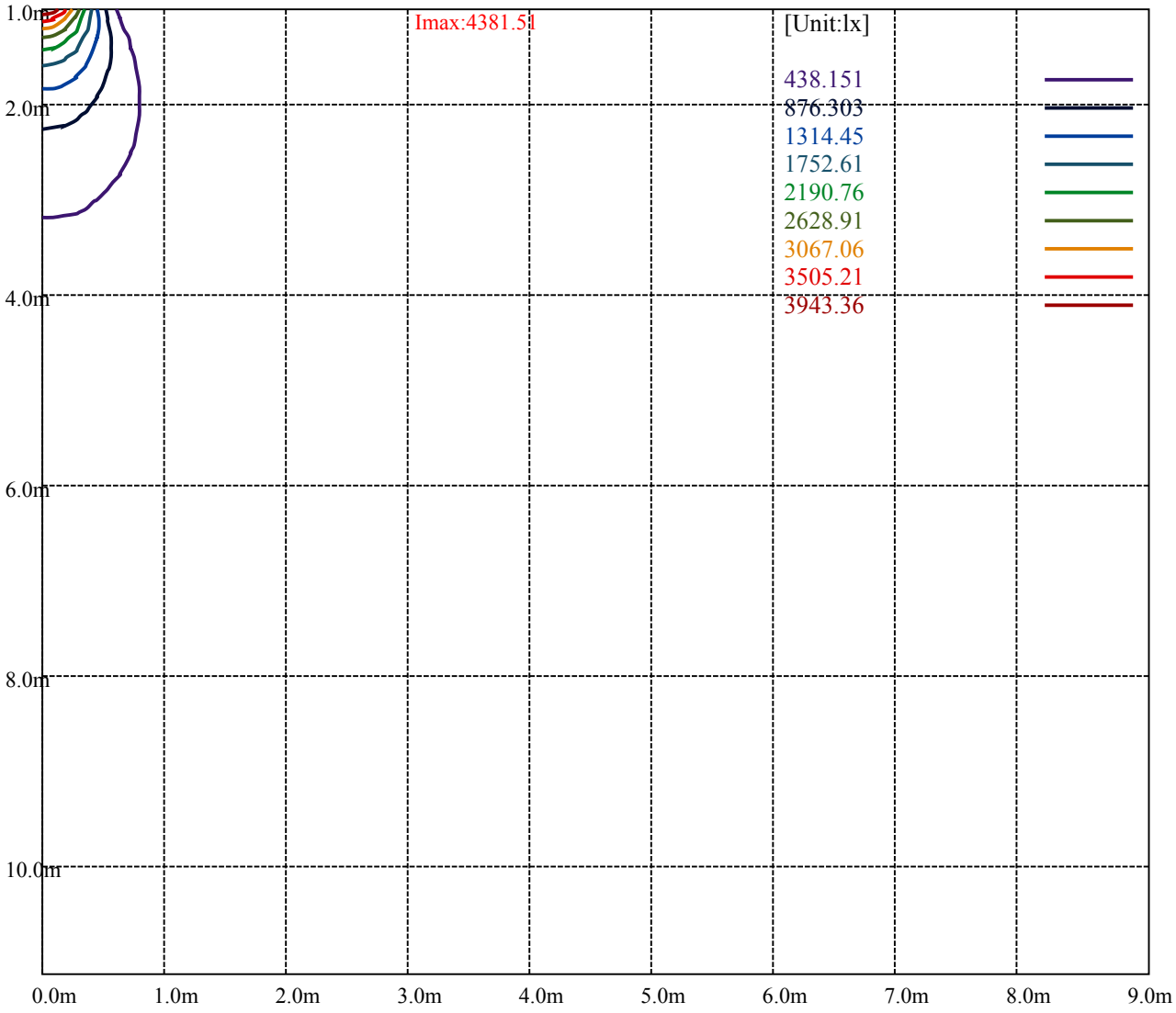


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

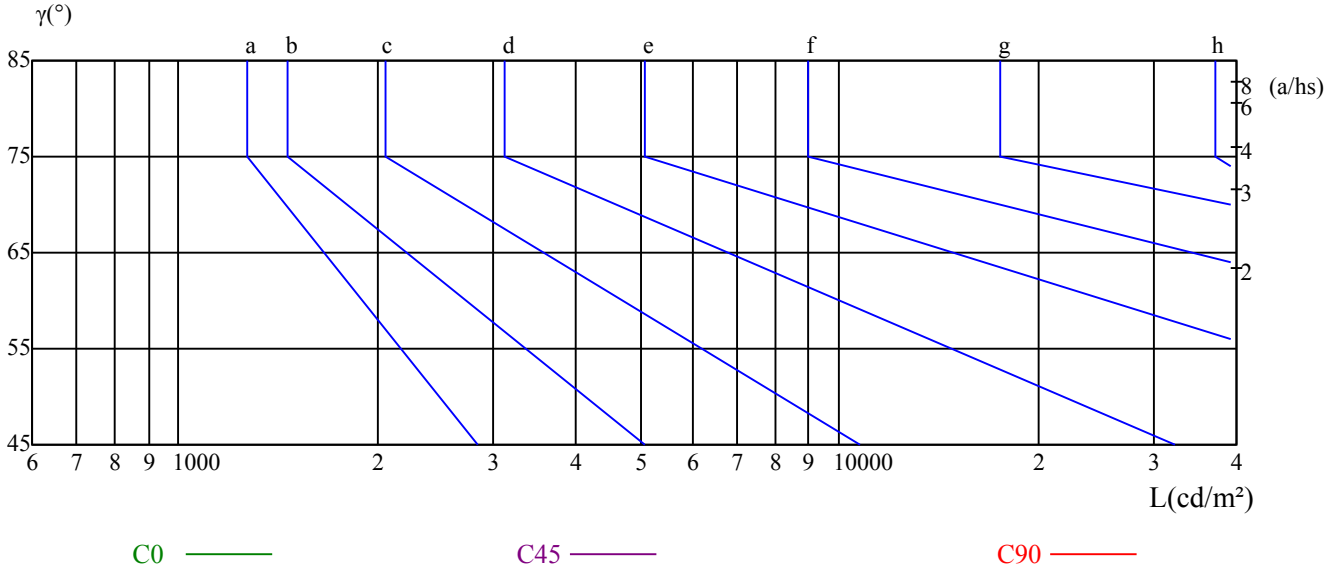
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

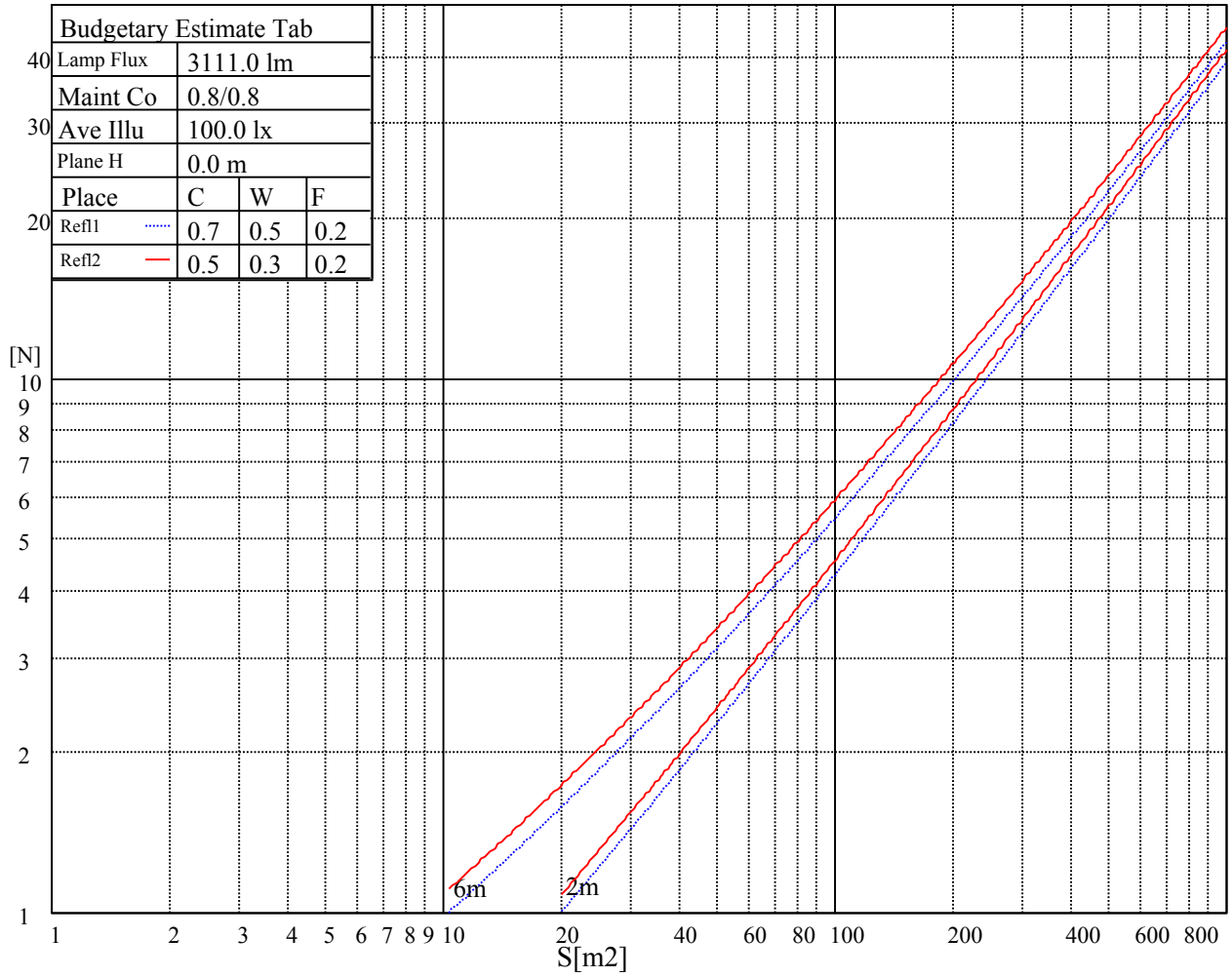
Luminance Limitting Curve



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

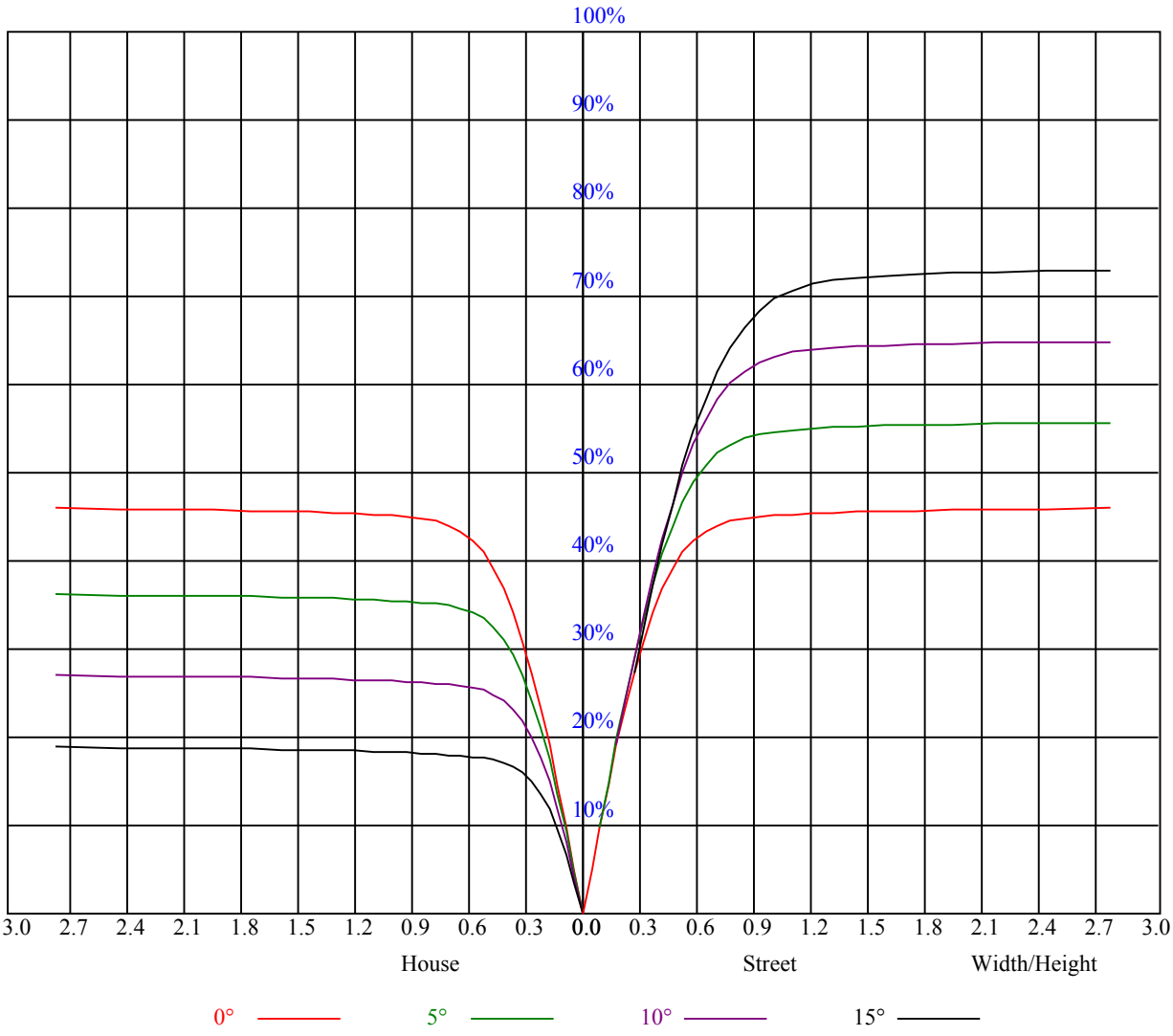


Equipment: GMS1980 Date: 2023/11/17 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.81	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.69	0.68
6	0.76	0.70	0.67	0.75	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
7	0.72	0.66	0.63	0.71	0.66	0.63	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.60
8	0.68	0.63	0.59	0.67	0.63	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.58	0.57
9	0.65	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.55	0.54
10	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.52

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/17	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	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	4375.15	4379.02	4380.13	4367.40	4364.08	4329.76	4293.23	4222.37	4122.18
45.0	4381.79	4395.08	4385.67	4390.65	4374.60	4365.74	4328.65	4285.48	4201.34
90.0	4388.43	4379.02	4377.92	4351.35	4334.74	4315.37	4251.71	4176.98	4079.56
135.0	4380.68	4382.34	4372.38	4354.67	4325.88	4307.06	4277.17	4216.84	4142.11
180.0	4375.15	4374.04	4377.36	4368.51	4355.22	4320.35	4297.10	4273.85	4227.35
225.0	4381.79	4372.93	4370.72	4362.97	4336.95	4313.71	4283.26	4238.98	4183.63
270.0	4388.43	4389.54	4370.72	4373.49	4372.38	4362.97	4344.15	4319.79	4276.07
315.0	4380.68	4365.18	4370.17	4367.95	4361.86	4346.36	4325.88	4301.53	4253.92
360.0	4375.15	4379.02	4380.13	4367.40	4364.08	4329.76	4293.23	4222.37	4122.18

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4023.10	3943.39	3845.97	3710.91	3599.64	3495.03	3377.12	3219.92	3109.77
45.0	4113.88	3984.91	3902.98	3805.56	3689.32	3568.09	3457.94	3350.00	3198.33
90.0	3952.80	3859.81	3762.94	3645.03	3544.84	3418.08	3310.70	3190.58	3075.45
135.0	4044.69	3947.27	3849.29	3757.40	3672.16	3567.54	3467.90	3323.98	3208.29
180.0	4157.06	4073.47	3976.60	3865.90	3778.44	3700.39	3574.18	3485.06	3355.54
225.0	4091.74	3977.71	3888.04	3797.81	3693.19	3609.05	3519.38	3414.21	3278.04
270.0	4230.12	4142.11	4049.67	3940.62	3844.31	3750.76	3665.52	3544.84	3434.69
315.0	4146.54	4066.28	3969.41	3871.43	3781.76	3659.98	3548.17	3405.91	3286.34
360.0	4023.10	3943.39	3845.97	3710.91	3599.64	3495.03	3377.12	3219.92	3109.77

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2993.52	2840.19	2712.88	2535.19	2386.85	2235.18	2089.04	1904.72	1758.03
45.0	3083.20	2974.15	2850.16	2695.72	2557.89	2416.74	2232.41	2086.28	1940.70
90.0	2934.29	2816.94	2695.72	2562.87	2422.83	2239.61	2086.83	1914.68	1771.87
135.0	3059.39	2947.03	2829.12	2671.92	2544.05	2403.45	2223.00	2075.21	1930.18
180.0	3229.33	3120.28	3009.58	2882.82	2737.24	2611.03	2464.34	2319.32	2146.06
225.0	3164.57	3046.11	2931.53	2779.86	2647.01	2472.65	2322.08	2174.29	1986.64
270.0	3311.25	3200.55	3057.73	2929.87	2779.86	2645.90	2495.89	2316.55	2167.65
315.0	3166.78	3020.65	2892.78	2771.00	2592.21	2443.31	2294.41	2147.72	2001.59
360.0	2993.52	2840.19	2712.88	2535.19	2386.85	2235.18	2089.04	1904.72	1758.03

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1605.81	1461.89	1086.26	1086.26	974.94	832.79	704.54	561.78	460.10
45.0	1756.92	1608.02	1423.14	1276.45	1131.43	985.85	848.02	689.71	576.78
90.0	1622.97	1438.09	1103.03	1103.03	962.43	823.77	700.17	585.31	455.67
135.0	1781.83	1594.18	1450.82	1301.36	1154.12	973.67	840.82	717.94	577.89
180.0	1991.62	1848.26	1661.16	1507.83	1312.99	1161.32	1010.20	870.71	711.29
225.0	1837.74	1687.73	1531.08	1092.68	1092.68	1016.51	874.03	708.03	595.49
270.0	2012.66	1869.29	1675.55	1526.65	1366.68	1206.71	1010.20	864.07	729.56
315.0	1822.24	1673.89	1524.99	1090.08	1090.08	1013.30	835.29	703.10	563.78
360.0	1605.81	1461.89	1086.26	1086.26	974.94	832.79	704.54	561.78	460.10

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	353.99	286.34	230.71	178.13	147.52	124.43	102.90	90.23	80.15
45.0	476.04	387.48	296.70	281.20	281.20	148.13	125.49	107.39	90.61
90.0	368.88	297.30	238.24	183.17	151.12	127.15	104.95	91.78	81.43
135.0	478.81	371.42	301.12	285.62	285.62	154.27	130.91	111.65	96.76
180.0	600.03	502.61	415.71	323.82	292.82	292.82	172.87	137.78	116.08
225.0	493.42	404.41	313.36	254.07	196.28	161.52	134.79	109.27	94.21
270.0	582.32	482.13	391.90	302.23	286.18	286.18	152.50	127.92	108.44
315.0	465.19	378.95	308.37	250.14	193.18	158.92	133.13	113.03	94.54
360.0	353.99	286.34	230.71	178.13	147.52	124.43	102.90	90.23	80.15

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	72.07	63.99	58.67	54.30	50.48	46.50	43.84	40.91	38.91
45.0	80.59	72.51	64.32	58.79	54.14	49.26	46.05	43.40	41.07
90.0	71.24	64.71	59.28	53.58	49.76	46.50	43.78	40.80	38.80
135.0	82.98	74.45	67.53	60.45	55.74	51.64	47.44	44.62	41.57
180.0	99.69	84.91	75.83	67.09	61.39	56.63	51.59	48.16	45.22
225.0	82.75	73.84	65.26	59.73	55.08	51.09	46.88	44.01	41.57
270.0	93.49	79.88	71.63	64.82	59.34	53.69	49.93	46.66	43.23
315.0	83.36	74.56	65.87	60.22	54.52	50.70	47.33	43.84	41.40
360.0	72.07	63.99	58.67	54.30	50.48	46.50	43.84	40.91	38.91

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	37.14	35.15	33.71	32.44	31.00	30.00	29.01	28.12	27.12
45.0	38.58	36.81	35.26	33.77	32.22	31.11	29.78	28.73	27.79
90.0	36.98	35.37	33.60	32.33	31.16	29.89	28.84	27.95	26.96
135.0	39.47	37.64	35.98	34.10	32.82	31.55	30.44	29.17	28.17
180.0	42.62	39.85	37.97	36.31	34.82	33.10	31.94	30.78	29.56
225.0	38.91	37.09	35.48	33.71	32.44	31.00	29.95	29.01	28.12
270.0	40.91	38.80	36.59	35.04	33.32	32.05	30.94	29.89	28.78
315.0	39.30	37.42	35.37	33.93	32.66	31.50	30.17	29.17	28.29
360.0	37.14	35.15	33.71	32.44	31.00	30.00	29.01	28.12	27.12

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	26.35	25.63	24.96	24.13	23.47	22.81	22.03	21.37	20.70
45.0	26.85	26.13	25.41	24.69	23.80	23.19	22.58	21.92	21.20
90.0	26.18	25.24	24.58	23.91	23.25	22.42	21.81	21.20	20.59
135.0	27.34	26.51	25.57	24.85	23.97	23.30	22.64	21.81	21.20
180.0	28.51	27.62	26.63	25.85	25.08	24.19	23.53	22.81	22.20
225.0	27.12	26.29	25.57	24.85	24.02	23.36	22.75	22.14	21.37
270.0	27.90	27.07	26.35	25.41	24.74	24.08	23.30	22.69	22.09
315.0	27.46	26.46	25.68	24.85	24.13	23.53	22.75	22.09	21.48
360.0	26.35	25.63	24.96	24.13	23.47	22.81	22.03	21.37	20.70

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	20.04	19.54	18.99	18.32	17.71	17.21	16.66	16.00	15.44
45.0	20.59	20.04	19.32	18.76	18.21	17.55	16.99	16.33	15.83
90.0	19.82	19.32	18.71	18.21	17.49	16.94	16.27	15.78	15.28
135.0	20.59	19.98	19.26	18.76	18.16	17.60	16.94	16.38	15.89
180.0	21.42	20.81	20.20	19.54	18.82	18.27	17.71	16.99	16.44
225.0	20.81	20.04	19.48	18.88	18.21	17.60	17.05	16.55	15.89
270.0	21.31	20.70	19.98	19.43	18.88	18.32	17.71	17.05	16.55
315.0	20.87	20.15	19.60	18.99	18.43	17.71	17.16	16.61	15.94
360.0	20.04	19.54	18.99	18.32	17.71	17.21	16.66	16.00	15.44

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.95	14.45	14.00	13.56	13.23	12.95	12.62	12.29	12.12
45.0	15.28	14.72	14.23	13.78	13.40	13.06	12.79	12.45	12.12
90.0	14.67	14.23	13.78	13.34	13.06	12.73	12.45	12.12	12.01
135.0	15.28	14.72	14.17	13.78	13.34	13.01	12.73	12.40	12.07
180.0	15.83	15.33	14.72	14.28	13.84	13.45	13.12	12.84	12.45
225.0	15.39	14.89	14.45	13.95	13.62	13.17	12.90	12.57	12.29
270.0	16.00	15.39	14.83	14.34	13.89	13.45	13.17	12.73	12.45
315.0	15.44	14.89	14.39	14.00	13.51	13.17	12.84	12.57	12.23
360.0	14.95	14.45	14.00	13.56	13.23	12.95	12.62	12.29	12.12

Intensity data(cd)

C/γ(°)	90.0
0.0	12.12
45.0	12.07
90.0	12.07
135.0	12.18
180.0	12.18
225.0	12.12
270.0	12.18
315.0	12.01
360.0	12.12