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NATA

Client:
LumCAT: 2-2642-L
Luminaire: 92.70.411.00
Report No: 2023718-B011
Ballast type: AC

Test No: 2023718-C011	Voltage(V): 35.510
LampCAT: SLM C 1205 L13 2024 G7 HE+	Current(A): 0.480
Lamp flux(lm): 2636.6	Power (W): 17.044
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2465.96, Efficiency(%): 93.53% , Luminous Efficacy(lm/W): 144.68
Central intensity(cd): 4047.953, Maximum intensity(cd): 4047.953
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=46.6
[C90/270]Total=46.6
Field angle(10%Imax): [C0/180]Total=70.8
[C90/270]Total=70.8
Maximum s/h(1/2): C0_180=0.73 C90_270=0.73
Maximum s/h(1/4): C0_180=0.74 C90_270=0.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.53%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.980%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4047.953	0.000	0	0.00%	0.00%
1.0	4046.708	3.873	3.873	0.15%	0.16%
2.0	4036.814	11.602	15.475	0.44%	0.63%
3.0	4020.761	19.271	34.746	0.73%	1.41%
4.0	3988.241	26.809	61.555	1.02%	2.50%
5.0	3944.235	34.125	95.68	1.29%	3.88%
6.0	3892.687	41.185	136.865	1.56%	5.55%
7.0	3825.916	47.909	184.775	1.82%	7.49%
8.0	3750.705	54.224	238.999	2.06%	9.69%
9.0	3666.014	60.108	299.107	2.28%	12.13%
10.0	3569.975	65.483	364.591	2.48%	14.78%
11.0	3477.742	70.421	435.012	2.67%	17.64%
12.0	3372.501	74.883	509.895	2.84%	20.68%
13.0	3262.209	78.737	588.632	2.99%	23.87%
14.0	3158.283	82.182	670.814	3.12%	27.20%
15.0	3053.457	85.278	756.091	3.23%	30.66%
16.0	2944.203	87.882	843.974	3.33%	34.22%
17.0	2830.589	89.929	933.903	3.41%	37.87%
18.0	2712.133	91.387	1025.29	3.47%	41.58%
19.0	2590.977	92.263	1117.553	3.50%	45.32%
20.0	2463.664	92.514	1210.067	3.51%	49.07%
21.0	2332.269	92.092	1302.159	3.49%	52.81%
22.0	2196.721	91.012	1393.171	3.45%	56.50%
23.0	2066.848	89.461	1482.632	3.39%	60.12%
24.0	1937.390	87.547	1570.179	3.32%	63.67%
25.0	1814.297	85.305	1655.484	3.24%	67.13%
26.0	1685.047	82.602	1738.087	3.13%	70.48%
27.0	1552.821	79.215	1817.302	3.00%	73.70%
28.0	1401.961	74.809	1892.111	2.84%	76.73%
29.0	1247.642	69.321	1961.432	2.63%	79.54%
30.0	1118.634	63.889	2025.321	2.42%	82.13%
31.0	988.927	58.650	2083.971	2.22%	84.51%
32.0	846.931	52.595	2136.566	1.99%	86.64%
33.0	697.974	45.513	2182.08	1.73%	88.49%
34.0	564.856	38.217	2220.297	1.45%	90.04%
35.0	443.957	31.330	2251.627	1.19%	91.31%
36.0	342.203	25.031	2276.658	0.95%	92.32%
37.0	275.280	20.139	2296.797	0.76%	93.14%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	205.597	16.051	2312.848	0.61%	93.79%
39.0	165.459	12.665	2325.513	0.48%	94.30%
40.0	116.429	9.831	2335.345	0.37%	94.70%
41.0	100.204	7.714	2343.059	0.29%	95.02%
42.0	88.517	6.857	2349.915	0.26%	95.29%
43.0	78.734	6.195	2356.111	0.23%	95.55%
44.0	70.880	5.647	2361.758	0.21%	95.77%
45.0	64.238	5.193	2366.95	0.20%	95.98%
46.0	58.405	4.796	2371.747	0.18%	96.18%
47.0	52.883	4.426	2376.173	0.17%	96.36%
48.0	48.393	4.094	2380.267	0.16%	96.52%
49.0	44.622	3.820	2384.087	0.14%	96.68%
50.0	41.245	3.580	2387.667	0.14%	96.82%
51.0	38.575	3.377	2391.044	0.13%	96.96%
52.0	36.388	3.217	2394.261	0.12%	97.09%
53.0	34.485	3.083	2397.344	0.12%	97.22%
54.0	32.631	2.958	2400.302	0.11%	97.34%
55.0	31.171	2.848	2403.15	0.11%	97.45%
56.0	29.856	2.758	2405.907	0.10%	97.56%
57.0	28.639	2.675	2408.582	0.10%	97.67%
58.0	27.490	2.596	2411.178	0.10%	97.78%
59.0	26.431	2.521	2413.698	0.10%	97.88%
60.0	25.463	2.452	2416.15	0.09%	97.98%
61.0	24.577	2.388	2418.538	0.09%	98.08%
62.0	23.733	2.328	2420.866	0.09%	98.17%
63.0	22.826	2.264	2423.13	0.09%	98.26%
64.0	22.065	2.203	2425.333	0.08%	98.35%
65.0	21.380	2.150	2427.483	0.08%	98.44%
66.0	20.702	2.100	2429.583	0.08%	98.52%
67.0	19.948	2.044	2431.627	0.08%	98.61%
68.0	19.374	1.992	2433.619	0.08%	98.69%
69.0	18.751	1.945	2435.564	0.07%	98.77%
70.0	18.163	1.896	2437.46	0.07%	98.84%
71.0	17.554	1.846	2439.306	0.07%	98.92%
72.0	17.014	1.797	2441.103	0.07%	98.99%
73.0	16.454	1.750	2442.853	0.07%	99.06%
74.0	15.949	1.703	2444.557	0.06%	99.13%
75.0	15.409	1.657	2446.214	0.06%	99.20%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.862	1.607	2447.82	0.06%	99.26%
77.0	14.378	1.559	2449.379	0.06%	99.33%
78.0	13.901	1.514	2450.893	0.06%	99.39%
79.0	13.396	1.467	2452.36	0.06%	99.45%
80.0	12.904	1.418	2453.778	0.05%	99.51%
81.0	12.496	1.374	2455.151	0.05%	99.56%
82.0	12.060	1.332	2456.483	0.05%	99.62%
83.0	11.645	1.289	2457.772	0.05%	99.67%
84.0	11.313	1.251	2459.022	0.05%	99.72%
85.0	11.022	1.219	2460.241	0.05%	99.77%
86.0	10.746	1.190	2461.431	0.05%	99.82%
87.0	10.524	1.164	2462.595	0.04%	99.86%
88.0	10.303	1.141	2463.736	0.04%	99.91%
89.0	10.137	1.120	2464.856	0.04%	99.96%
90.0	10.074	1.108	2465.965	0.04%	100.00%

Zonal flux distribution table

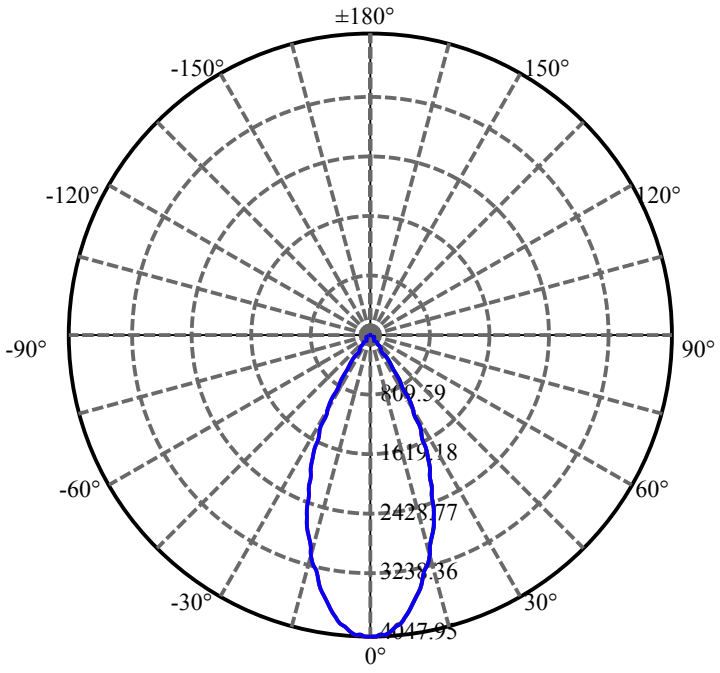
ZONAL LUMEN SUMMARY

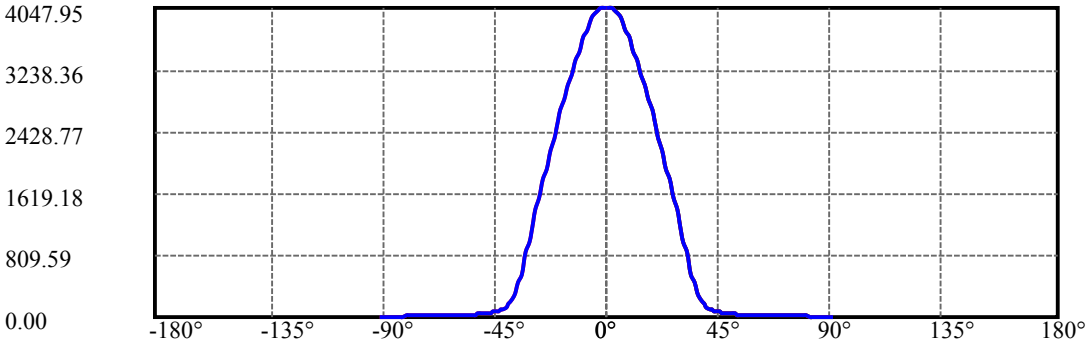
Zone	Lumens	%Lamp	%Fixt
0-30	2025.32	76.82%	82.13%
0-40	2335.34	88.57%	94.70%
0-60	2416.15	91.64%	97.98%
0-90	2464.86	93.49%	99.96%
0-120	2464.86	93.49%	99.96%
0-180	2465.96	93.53%	100.00%
60-90	48.71	1.85%	1.98%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.18	1972.77	74.82%	80.00%

ZONAL LUMEN SUMMARY

0-10	364.59
10-20	845.48
20-30	815.25
30-40	310.02
40-50	52.32
50-60	28.48
60-70	21.31
70-80	16.32
80-90	11.08
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):

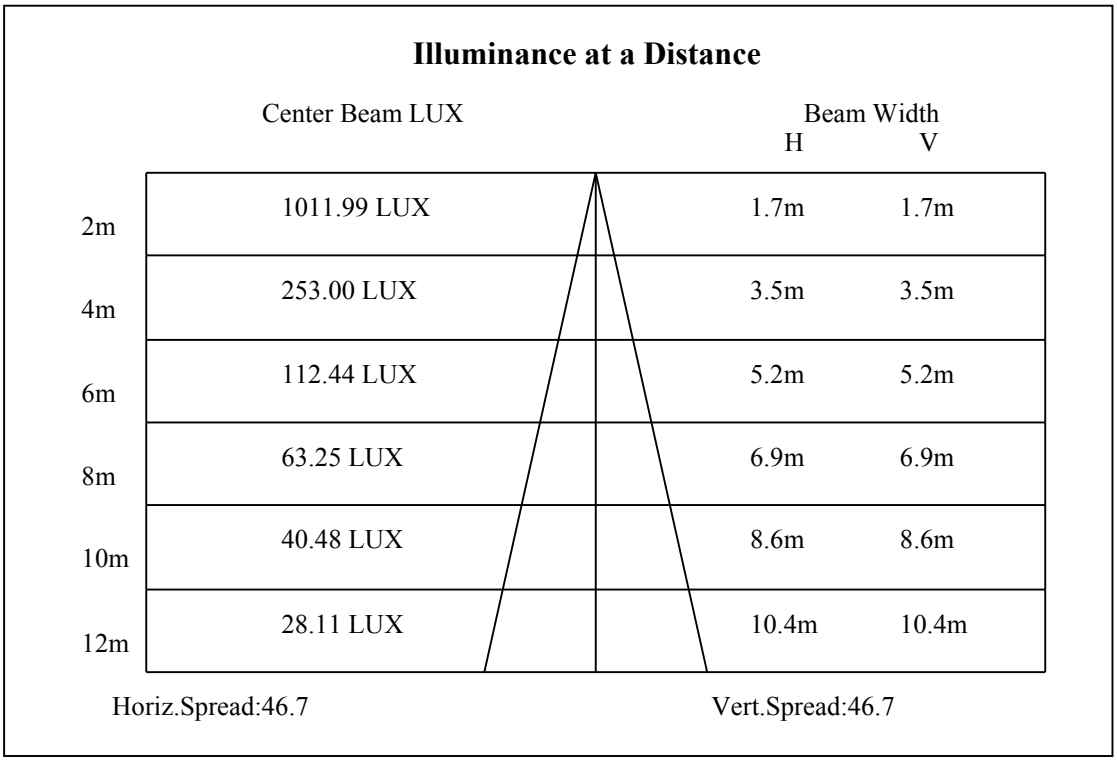
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.4 Right:35.4
:C90/270Left:35.4 Right:35.4

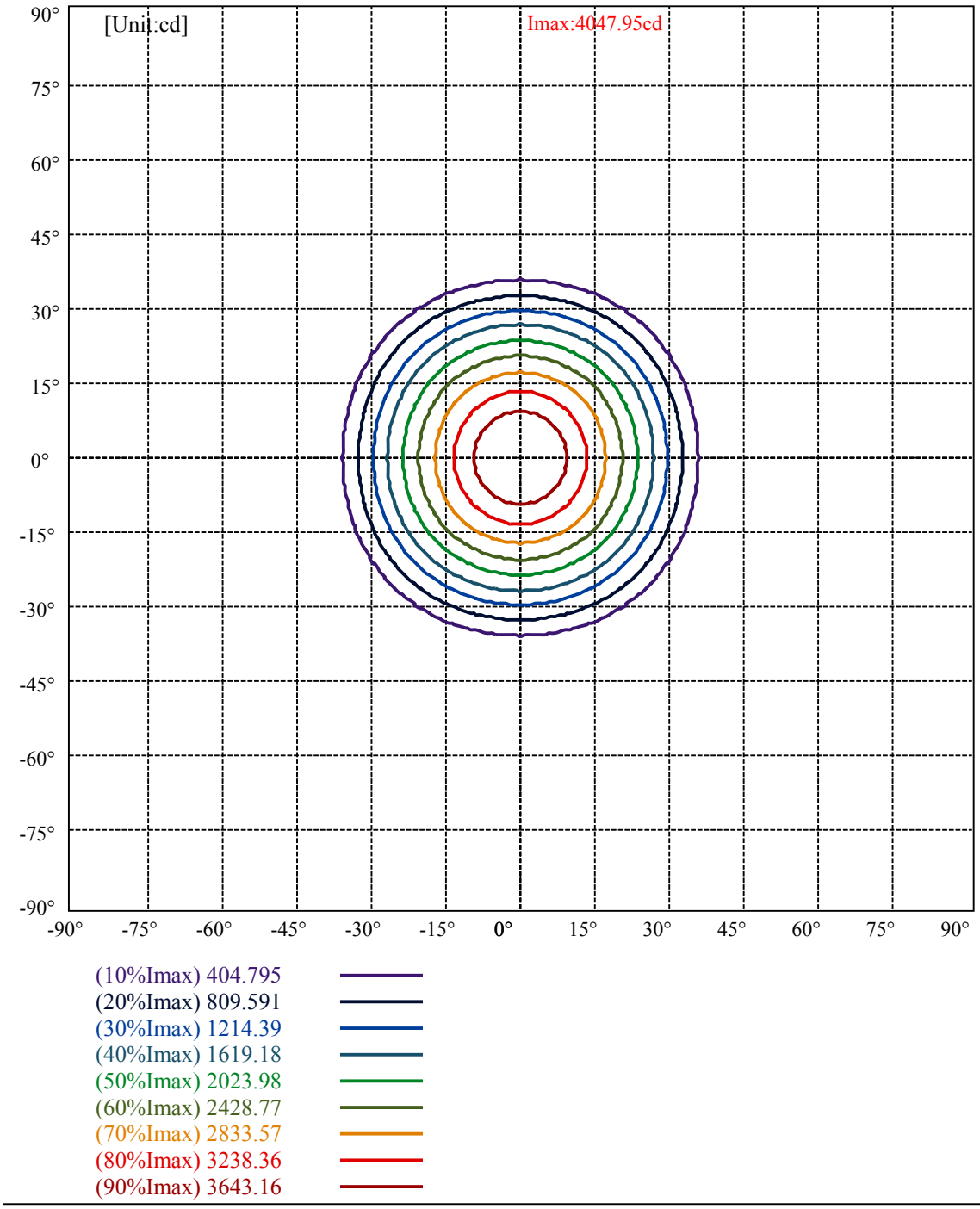
Beam Angle(50%Imax):C0/180Left:23.3 Right:23.3
:C90/270Left:23.3 Right:23.3

Lux distance Curve



Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

ISO-Intensity(V-H)

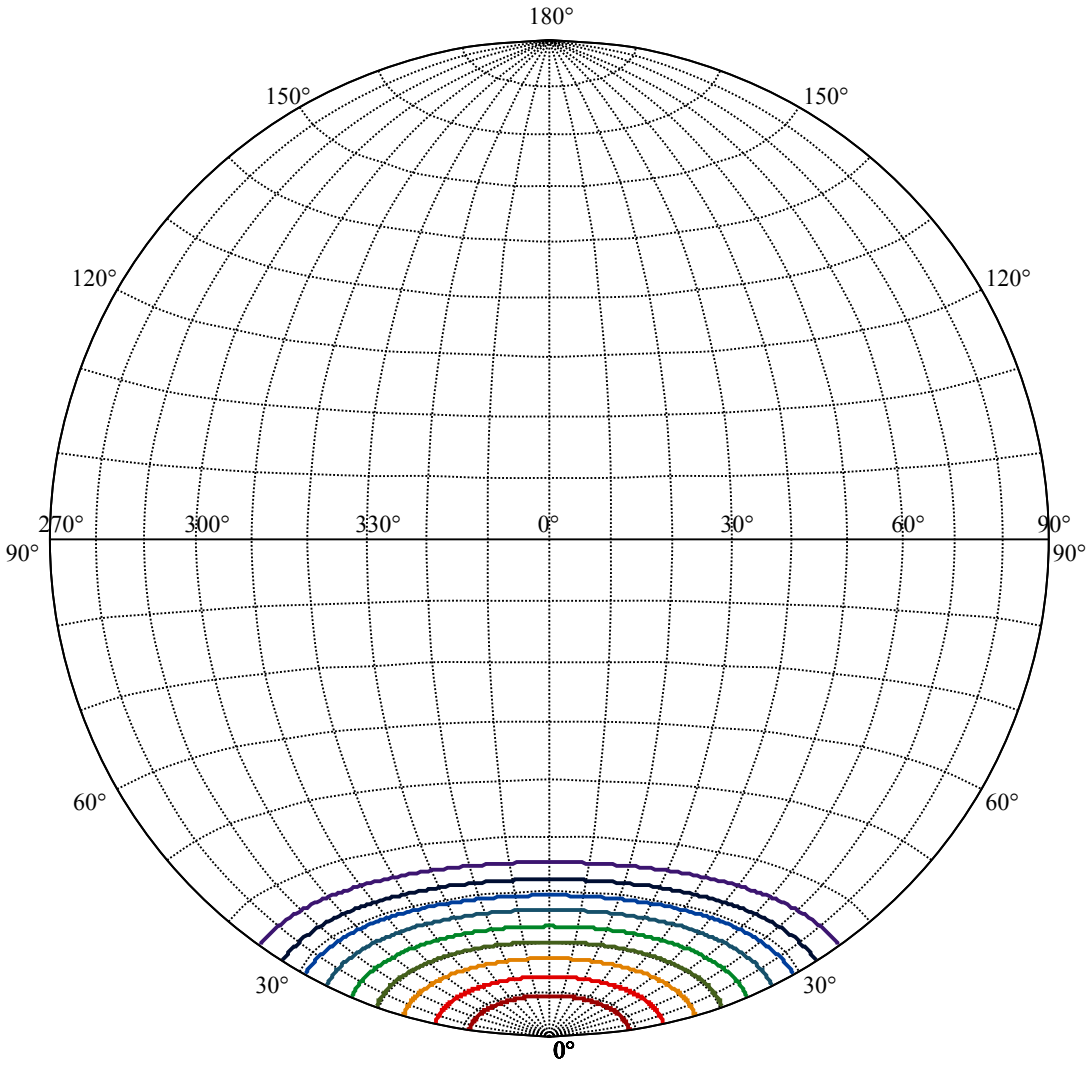


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



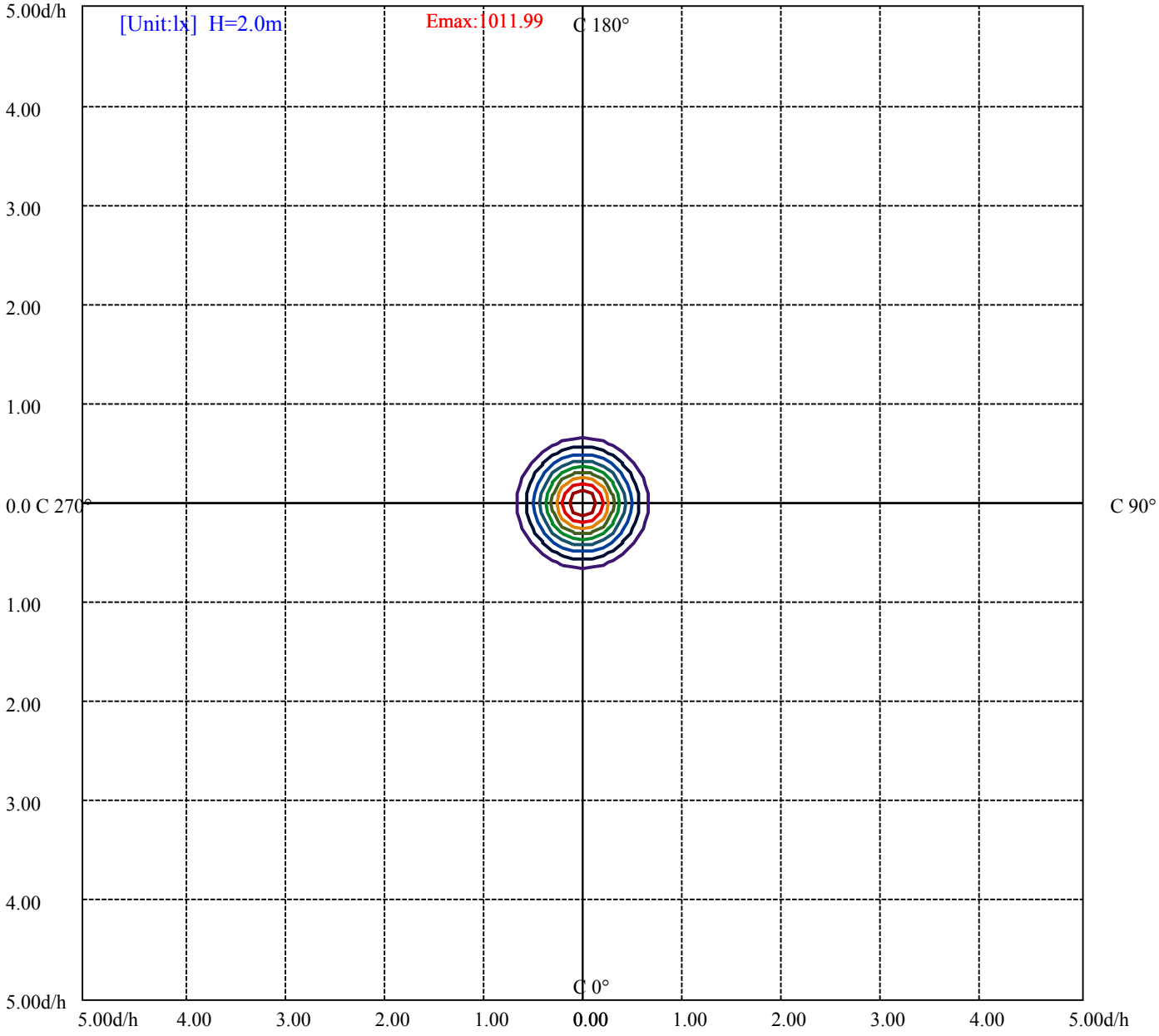
House [Unit:cd] Road

Imax:4047.95

(10%Imax) 404.795
(20%Imax) 809.591
(30%Imax) 1214.39
(40%Imax) 1619.18
(50%Imax) 2023.98
(60%Imax) 2428.77
(70%Imax) 2833.57
(80%Imax) 3238.36
(90%Imax) 3643.16

Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

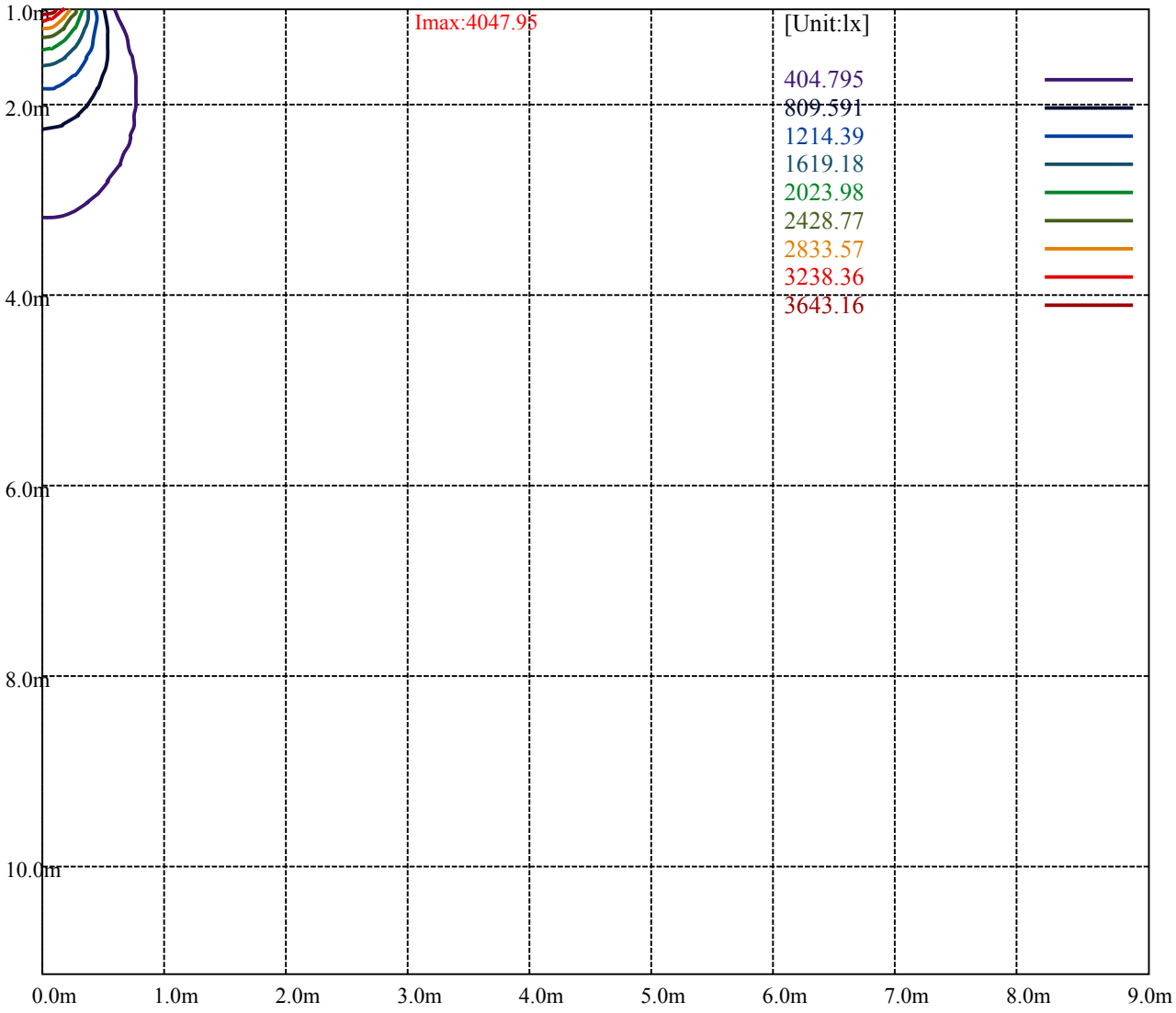
ISO illuminance diagram



(10%Emax) 101.1988
(20%Emax) 202.3978
(30%Emax) 303.5975
(40%Emax) 404.795
(50%Emax) 505.995
(60%Emax) 607.1925
(70%Emax) 708.3925
(80%Emax) 809.59
(90%Emax) 910.79

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/7/18
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

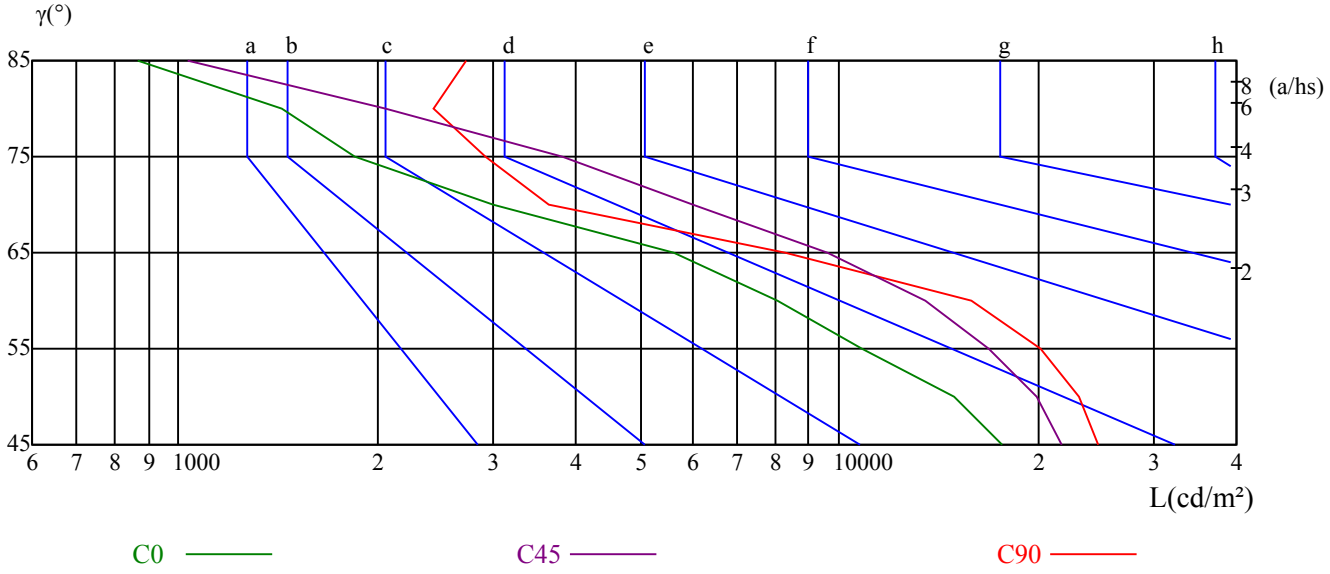
γ	45	50	55	60	65	70	75	80	85
C0	17707	14902	10843	8081	5637	2993	1851	1437	868
C45	21736	19918	16903	13532	9602	6004	3809	2064	1031
C90	24698	23118	20255	15854	8293	3645	2908	2436	2724

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
10642	10437	15758	4678	3676	7686	4962	3969	5458

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

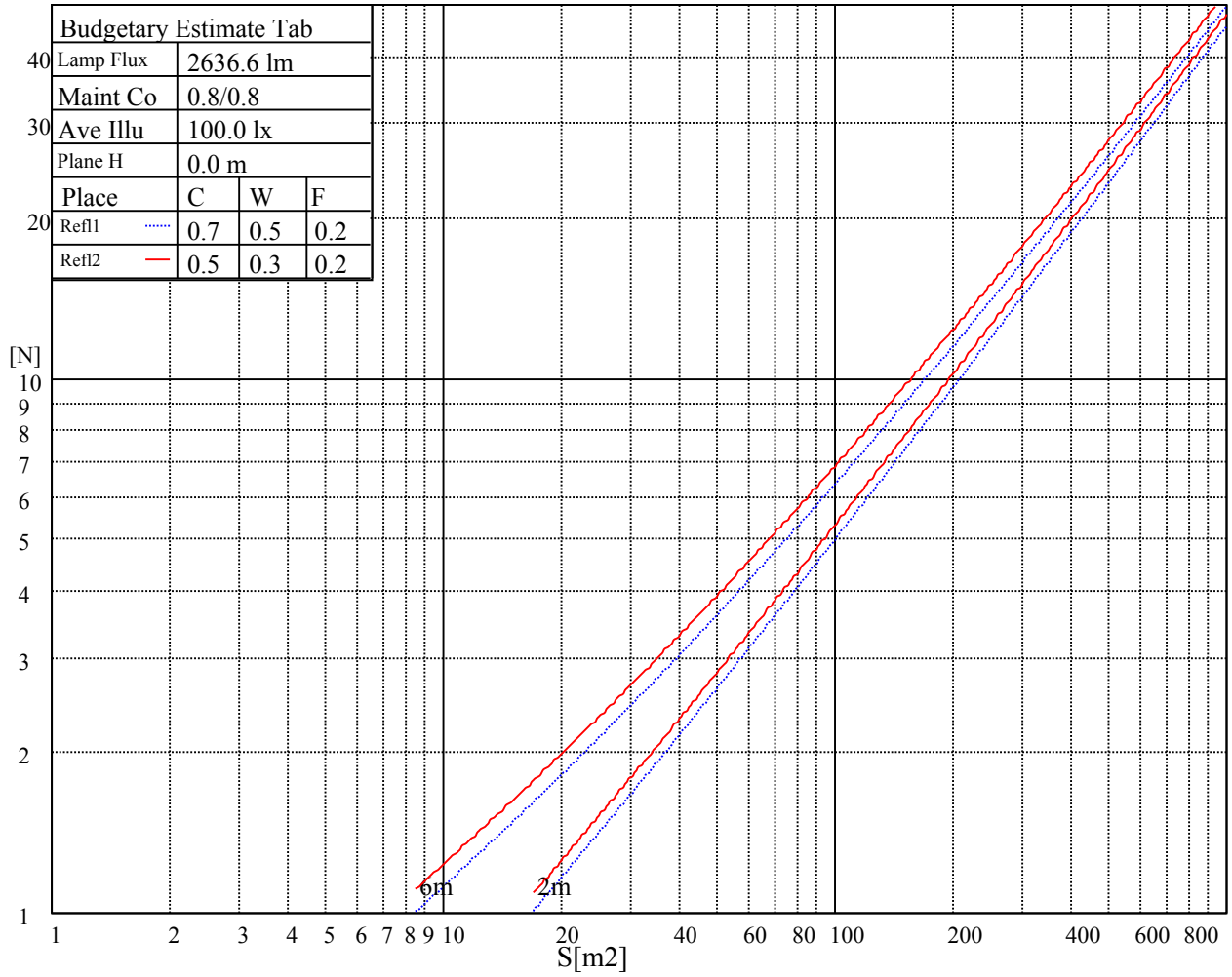
Date: 2023/7/18
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

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

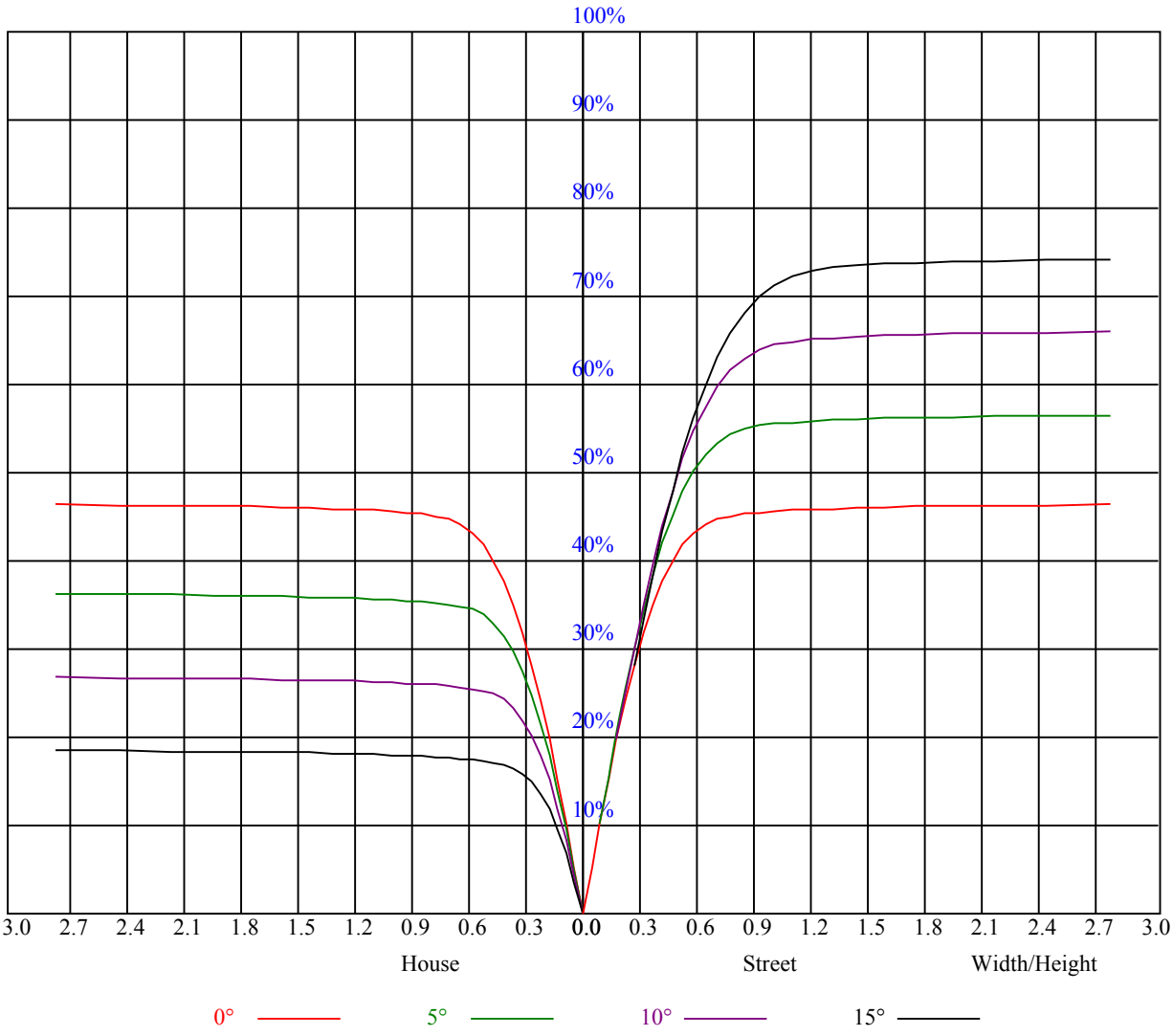


Equipment: GMS1980 Date: 2023/7/18 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.94
1	1.04	1.01	0.99	1.02	1.00	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.90	0.87	0.90	0.88	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.77
4	0.86	0.81	0.77	0.85	0.80	0.77	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.72	0.80	0.76	0.72	0.79	0.75	0.71	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.63	0.69	0.66	0.63	0.62
8	0.69	0.64	0.61	0.69	0.64	0.61	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
9	0.66	0.61	0.58	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
10	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.53

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/7/18	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	4033.56	4004.78	3959.39	3911.23	3828.20	3759.56	3687.60	3610.11	3513.24
45.0	4049.61	4033.01	4002.56	3978.21	3914.55	3859.20	3801.63	3735.21	3642.77
90.0	4045.74	4034.12	4013.63	3978.21	3934.48	3865.84	3799.97	3723.03	3642.77
135.0	4062.90	4067.88	4070.09	4061.24	4043.53	4006.44	3953.30	3874.70	3810.49
180.0	4033.56	4056.81	4064.01	4078.95	4075.63	4067.33	4037.44	3993.15	3935.59
225.0	4049.61	4067.33	4083.93	4087.81	4074.52	4039.65	3992.05	3932.82	3868.05
270.0	4045.74	4054.04	4059.58	4062.90	4064.56	4043.53	4008.10	3955.51	3882.45
315.0	4062.90	4055.70	4041.31	4007.55	3970.46	3912.34	3861.41	3782.81	3710.30
360.0	4033.56	4004.78	3959.39	3911.23	3828.20	3759.56	3687.60	3610.11	3513.24

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3431.31	3343.86	3250.86	3138.49	3044.95	2927.04	2843.46	2746.59	2628.13
45.0	3555.31	3467.29	3377.07	3260.27	3167.28	3076.50	2953.61	2858.96	2763.20
90.0	3537.59	3440.17	3338.32	3237.02	3111.92	3014.50	2905.46	2764.86	2655.26
135.0	3737.97	3633.91	3543.68	3445.15	3312.30	3209.90	3111.37	3003.43	2862.28
180.0	3848.68	3767.86	3678.74	3581.32	3469.51	3370.98	3271.90	3166.17	3037.20
225.0	3785.02	3675.98	3582.98	3480.58	3353.82	3253.63	3149.01	3016.72	2901.03
270.0	3814.36	3729.67	3643.87	3525.42	3428.55	3322.82	3197.17	3092.55	2991.25
315.0	3617.86	3501.06	3406.41	3311.75	3209.35	3090.89	2995.68	2904.35	2806.37
360.0	3431.31	3343.86	3250.86	3138.49	3044.95	2927.04	2843.46	2746.59	2628.13

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2516.87	2401.18	2289.37	2133.83	2010.39	1890.82	1777.35	1637.86	1517.74
45.0	2630.35	2524.62	2380.70	2268.89	2149.32	2023.12	1870.90	1755.21	1643.95
90.0	2540.67	2389.01	2267.23	2143.79	1991.57	1873.66	1763.51	1660.00	1520.51
135.0	2759.88	2643.63	2527.39	2371.29	2237.34	2110.02	1952.27	1833.26	1717.01
180.0	2922.61	2812.46	2665.77	2548.98	2395.65	2261.69	2117.77	1999.32	1836.02
225.0	2790.32	2646.40	2526.84	2400.08	2236.78	2111.68	1989.35	1870.34	1733.62
270.0	2861.73	2746.59	2629.79	2487.54	2367.42	2230.14	2113.35	1958.36	1841.01
315.0	2674.63	2563.92	2422.22	2303.76	2185.30	2033.64	1914.63	1800.04	1670.52
360.0	2516.87	2401.18	2289.37	2133.83	2010.39	1890.82	1777.35	1637.86	1517.74

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1278.06	1102.59	1066.89	933.59	769.86	645.59	502.44	398.71	307.05
45.0	1522.72	1386.00	1211.63	1069.93	928.78	756.63	629.87	482.07	378.01
90.0	1390.98	1072.53	1072.53	921.03	776.00	638.06	477.04	364.34	253.02
135.0	1570.88	1443.01	1268.10	1121.96	979.70	838.55	671.94	547.95	434.47
180.0	1729.19	1618.48	1493.94	1333.41	1193.37	1051.11	905.53	752.75	626.55
225.0	1630.66	1516.63	1279.72	1101.48	1066.77	925.68	751.04	621.34	471.89
270.0	1740.82	1640.63	1496.71	1376.04	1206.10	1066.05	919.37	745.56	613.82
315.0	1559.26	1435.82	1091.63	1091.63	990.83	853.77	726.57	606.12	466.85
360.0	1278.06	1102.59	1066.89	933.59	769.86	645.59	502.44	398.71	307.05

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	230.05	171.93	130.86	114.53	101.46	90.56	79.38	71.74	63.88
45.0	285.57	285.57	145.36	119.90	106.00	92.27	83.20	75.17	68.14
90.0	187.54	141.87	115.52	100.25	90.39	81.98	72.51	65.93	60.28
135.0	334.28	289.44	289.44	125.60	107.39	93.82	84.52	74.56	67.64
180.0	477.65	381.33	283.91	283.91	136.06	112.53	100.02	86.91	78.71
225.0	366.61	274.61	199.72	140.49	115.19	101.85	90.95	81.76	72.13
270.0	490.38	381.33	289.44	289.44	148.85	122.50	103.95	92.50	83.14
315.0	365.56	276.16	190.53	149.57	126.10	106.11	93.60	81.31	73.12
360.0	230.05	171.93	130.86	114.53	101.46	90.56	79.38	71.74	63.88

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	58.56	53.86	48.55	45.06	42.01	39.02	36.98	35.15	33.43
45.0	60.72	55.80	51.31	46.16	42.84	39.97	37.25	35.37	33.27
90.0	55.24	50.81	45.72	42.51	39.80	37.14	35.32	33.27	31.77
135.0	61.61	55.13	50.59	46.33	42.79	39.25	37.09	35.15	33.38
180.0	70.96	64.65	57.73	53.08	48.71	44.84	41.07	38.58	36.48
225.0	65.54	59.84	53.69	49.15	44.28	41.13	38.53	35.92	34.10
270.0	74.89	66.37	60.56	54.41	49.87	45.06	41.90	39.36	37.14
315.0	66.37	60.78	54.91	50.43	46.66	43.56	40.46	38.30	36.31
360.0	58.56	53.86	48.55	45.06	42.01	39.02	36.98	35.15	33.43

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	31.55	30.28	29.01	27.84	26.63	25.68	24.74	23.69	22.92
45.0	31.77	30.50	29.28	28.17	26.90	25.96	25.08	24.24	23.30
90.0	30.50	29.06	28.01	26.96	26.02	24.96	24.19	23.41	22.69
135.0	31.55	30.28	29.12	27.79	26.79	25.85	24.74	23.97	23.25
180.0	34.26	32.71	31.00	29.84	28.73	27.51	26.57	25.68	24.85
225.0	32.49	30.72	29.50	28.40	27.34	26.18	25.30	24.41	23.64
270.0	34.76	33.16	31.66	30.33	28.84	27.68	26.68	25.74	24.63
315.0	34.15	32.66	31.27	29.78	28.67	27.62	26.40	25.46	24.58
360.0	31.55	30.28	29.01	27.84	26.63	25.68	24.74	23.69	22.92

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.98	21.31	20.65	20.04	19.26	18.71	18.10	17.55	16.88
45.0	22.53	21.81	20.98	20.43	19.65	19.15	18.54	17.88	17.38
90.0	21.81	21.15	20.48	19.76	19.15	18.60	17.88	17.38	16.88
135.0	22.36	21.64	21.09	20.43	19.65	19.10	18.54	17.99	17.33
180.0	23.86	23.08	22.36	21.64	20.81	20.20	19.65	18.93	18.32
225.0	22.69	21.98	21.31	20.54	19.93	19.32	18.65	18.10	17.60
270.0	23.80	22.81	22.09	21.42	20.59	19.98	19.37	18.82	18.10
315.0	23.58	22.75	22.09	21.37	20.54	19.93	19.26	18.65	17.93
360.0	21.98	21.31	20.65	20.04	19.26	18.71	18.10	17.55	16.88

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.38	15.89	15.44	14.78	14.39	13.78	13.34	12.90	12.40
45.0	16.83	16.33	15.83	15.22	14.72	14.34	13.84	13.28	12.84
90.0	16.27	15.78	15.28	14.83	14.28	13.78	13.34	12.79	12.34
135.0	16.77	16.33	15.72	15.28	14.72	14.28	13.78	13.23	12.84
180.0	17.82	17.16	16.61	16.16	15.55	15.06	14.56	14.06	13.51
225.0	17.10	16.44	16.00	15.50	14.89	14.39	13.95	13.51	12.95
270.0	17.55	17.05	16.55	15.89	15.39	14.95	14.45	13.89	13.40
315.0	17.38	16.66	16.16	15.61	14.95	14.45	13.95	13.51	12.95
360.0	16.38	15.89	15.44	14.78	14.39	13.78	13.34	12.90	12.40

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.01	11.73	11.35	11.02	10.79	10.57	10.35	10.19	10.07
45.0	12.34	11.96	11.46	11.18	10.90	10.68	10.46	10.19	10.07
90.0	12.01	11.57	11.24	10.96	10.68	10.41	10.24	10.07	10.02
135.0	12.45	11.90	11.57	11.24	10.96	10.68	10.46	10.24	10.07
180.0	13.12	12.62	12.18	11.73	11.46	11.07	10.85	10.57	10.35
225.0	12.57	12.12	11.73	11.40	11.07	10.79	10.63	10.41	10.13
270.0	12.90	12.51	11.96	11.62	11.24	10.96	10.68	10.46	10.24
315.0	12.57	12.07	11.68	11.35	11.07	10.79	10.52	10.30	10.13
360.0	12.01	11.73	11.35	11.02	10.79	10.57	10.35	10.19	10.07

Intensity data(cd)

C/γ(°)	90.0
0.0	10.13
45.0	10.02
90.0	10.07
135.0	10.07
180.0	10.19
225.0	10.02
270.0	10.07
315.0	10.02
360.0	10.13