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NATA

Client:
LumCAT: 2-2646-L
Luminaire: 92.70.412.00
Report No: 20231011-B002
Ballast type: AC

Test No: 20231011-C002	Voltage(V): 34.840
LampCAT: TRIDONIC SLE G7 15MM	Current(A): 0.530
Lamp flux(lm): 3047.8	Power (W): 18.465
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2778.39, Efficiency(%): 91.16% , Luminous Efficacy(lm/W): 150.47
Central intensity(cd): 4876.182, Maximum intensity(cd): 4876.182
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=46.8
[C90/270]Total=46.8
Field angle(10%Imax): [C0/180]Total=66.8
[C90/270]Total=66.8
Maximum s/h(1/2): C0_180=0.74 C90_270=0.74
Maximum s/h(1/4): C0_180=0.72 C90_270=0.72
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.142%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4876.182	0.000	0	0.00%	0.00%
1.0	4867.118	4.662	4.662	0.15%	0.17%
2.0	4835.012	13.925	18.587	0.46%	0.67%
3.0	4791.006	23.022	41.61	0.76%	1.50%
4.0	4732.816	31.879	73.489	1.05%	2.65%
5.0	4671.373	40.456	113.945	1.33%	4.10%
6.0	4586.821	48.654	162.6	1.60%	5.85%
7.0	4508.841	56.457	219.056	1.85%	7.88%
8.0	4425.465	63.941	282.997	2.10%	10.19%
9.0	4341.673	71.053	354.05	2.33%	12.74%
10.0	4251.931	77.769	431.819	2.55%	15.54%
11.0	4162.466	84.077	515.896	2.76%	18.57%
12.0	4062.830	89.914	605.811	2.95%	21.80%
13.0	3963.055	95.247	701.058	3.13%	25.23%
14.0	3851.517	100.026	801.083	3.28%	28.83%
15.0	3742.332	104.252	905.335	3.42%	32.58%
16.0	3608.446	107.709	1013.045	3.53%	36.46%
17.0	3485.699	110.475	1123.519	3.62%	40.44%
18.0	3331.124	112.395	1235.914	3.69%	44.48%
19.0	3179.871	113.278	1349.192	3.72%	48.56%
20.0	3010.419	113.299	1462.492	3.72%	52.64%
21.0	2853.769	112.604	1575.096	3.69%	56.69%
22.0	2685.563	111.315	1686.411	3.65%	60.70%
23.0	2509.400	109.004	1795.415	3.58%	64.62%
24.0	2335.521	105.927	1901.343	3.48%	68.43%
25.0	2147.941	101.944	2003.287	3.34%	72.10%
26.0	1957.663	96.913	2100.2	3.18%	75.59%
27.0	1702.704	89.552	2189.752	2.94%	78.81%
28.0	1438.806	79.536	2269.288	2.61%	81.68%
29.0	1252.555	70.414	2339.702	2.31%	84.21%
30.0	1100.471	63.531	2403.233	2.08%	86.50%
31.0	912.739	56.025	2459.258	1.84%	88.51%
32.0	721.202	46.811	2506.068	1.54%	90.20%
33.0	545.240	37.310	2543.378	1.22%	91.54%
34.0	413.055	29.001	2572.379	0.95%	92.59%
35.0	293.755	21.951	2594.33	0.72%	93.38%
36.0	233.571	16.790	2611.12	0.55%	93.98%
37.0	189.150	13.787	2624.907	0.45%	94.48%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	150.929	11.351	2636.258	0.37%	94.88%
39.0	116.672	9.134	2645.392	0.30%	95.21%
40.0	100.571	7.577	2652.969	0.25%	95.49%
41.0	87.812	6.708	2659.677	0.22%	95.73%
42.0	77.627	6.011	2665.688	0.20%	95.94%
43.0	69.234	5.440	2671.128	0.18%	96.14%
44.0	62.439	4.970	2676.097	0.16%	96.32%
45.0	56.606	4.575	2680.673	0.15%	96.48%
46.0	52.157	4.253	2684.926	0.14%	96.64%
47.0	48.268	3.994	2688.92	0.13%	96.78%
48.0	44.788	3.762	2692.682	0.12%	96.92%
49.0	41.647	3.549	2696.231	0.12%	97.04%
50.0	39.149	3.369	2699.6	0.11%	97.16%
51.0	36.838	3.215	2702.815	0.11%	97.28%
52.0	34.658	3.068	2705.883	0.10%	97.39%
53.0	32.887	2.938	2708.821	0.10%	97.50%
54.0	31.171	2.823	2711.645	0.09%	97.60%
55.0	29.801	2.722	2714.366	0.09%	97.70%
56.0	28.376	2.629	2716.995	0.09%	97.79%
57.0	27.282	2.545	2719.54	0.08%	97.88%
58.0	26.148	2.471	2722.011	0.08%	97.97%
59.0	25.234	2.402	2724.413	0.08%	98.06%
60.0	24.356	2.343	2726.756	0.08%	98.14%
61.0	23.539	2.286	2729.041	0.07%	98.22%
62.0	22.785	2.232	2731.273	0.07%	98.30%
63.0	22.079	2.182	2733.455	0.07%	98.38%
64.0	21.463	2.137	2735.592	0.07%	98.46%
65.0	20.813	2.092	2737.684	0.07%	98.53%
66.0	20.232	2.048	2739.732	0.07%	98.61%
67.0	19.720	2.009	2741.741	0.07%	98.68%
68.0	19.187	1.971	2743.712	0.06%	98.75%
69.0	18.730	1.934	2745.646	0.06%	98.82%
70.0	18.246	1.899	2747.545	0.06%	98.89%
71.0	17.796	1.863	2749.408	0.06%	98.96%
72.0	17.353	1.828	2751.236	0.06%	99.02%
73.0	16.945	1.794	2753.029	0.06%	99.09%
74.0	16.537	1.760	2754.79	0.06%	99.15%
75.0	16.115	1.725	2756.515	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.720	1.690	2758.205	0.06%	99.27%
77.0	15.305	1.654	2759.859	0.05%	99.33%
78.0	14.925	1.618	2761.477	0.05%	99.39%
79.0	14.510	1.581	2763.059	0.05%	99.45%
80.0	14.150	1.545	2764.604	0.05%	99.50%
81.0	13.790	1.511	2766.115	0.05%	99.56%
82.0	13.437	1.476	2767.591	0.05%	99.61%
83.0	13.098	1.442	2769.034	0.05%	99.66%
84.0	12.821	1.412	2770.446	0.05%	99.71%
85.0	12.551	1.385	2771.83	0.05%	99.76%
86.0	12.282	1.357	2773.188	0.04%	99.81%
87.0	12.032	1.331	2774.518	0.04%	99.86%
88.0	11.818	1.306	2775.825	0.04%	99.91%
89.0	11.666	1.287	2777.112	0.04%	99.95%
90.0	11.652	1.278	2778.391	0.04%	100.00%

Zonal flux distribution table

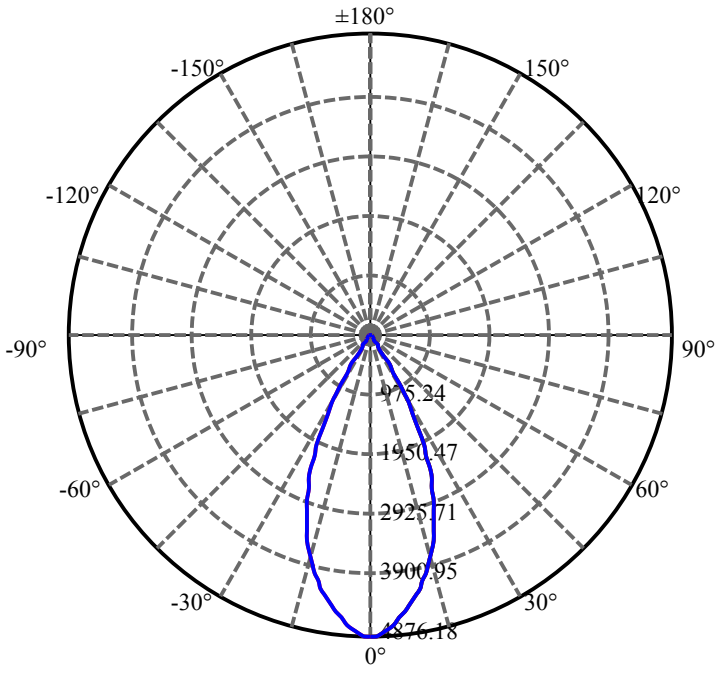
ZONAL LUMEN SUMMARY

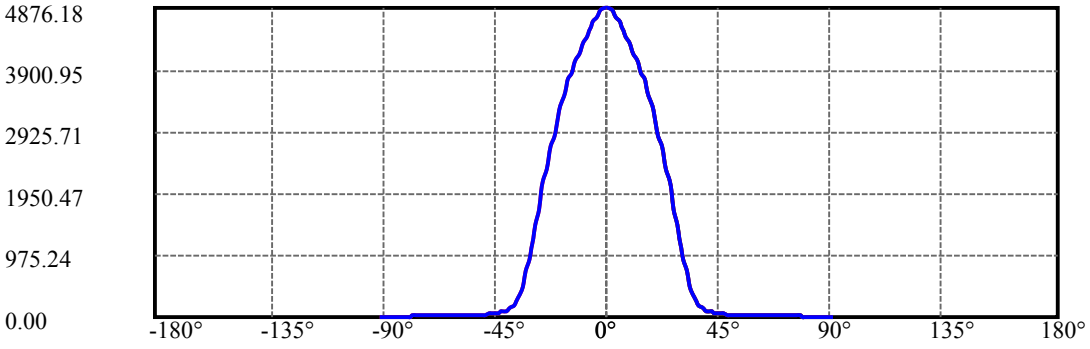
Zone	Lumens	%Lamp	%Fixt
0-30	2403.23	78.85%	86.50%
0-40	2652.97	87.05%	95.49%
0-60	2726.76	89.47%	98.14%
0-90	2777.11	91.12%	99.95%
0-120	2777.11	91.12%	99.95%
0-180	2778.39	91.16%	100.00%
60-90	50.36	1.65%	1.81%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.41	2222.71	72.93%	80.00%

ZONAL LUMEN SUMMARY

0-10	431.82
10-20	1030.67
20-30	940.74
30-40	249.74
40-50	46.63
50-60	27.16
60-70	20.79
70-80	17.06
80-90	12.51
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):

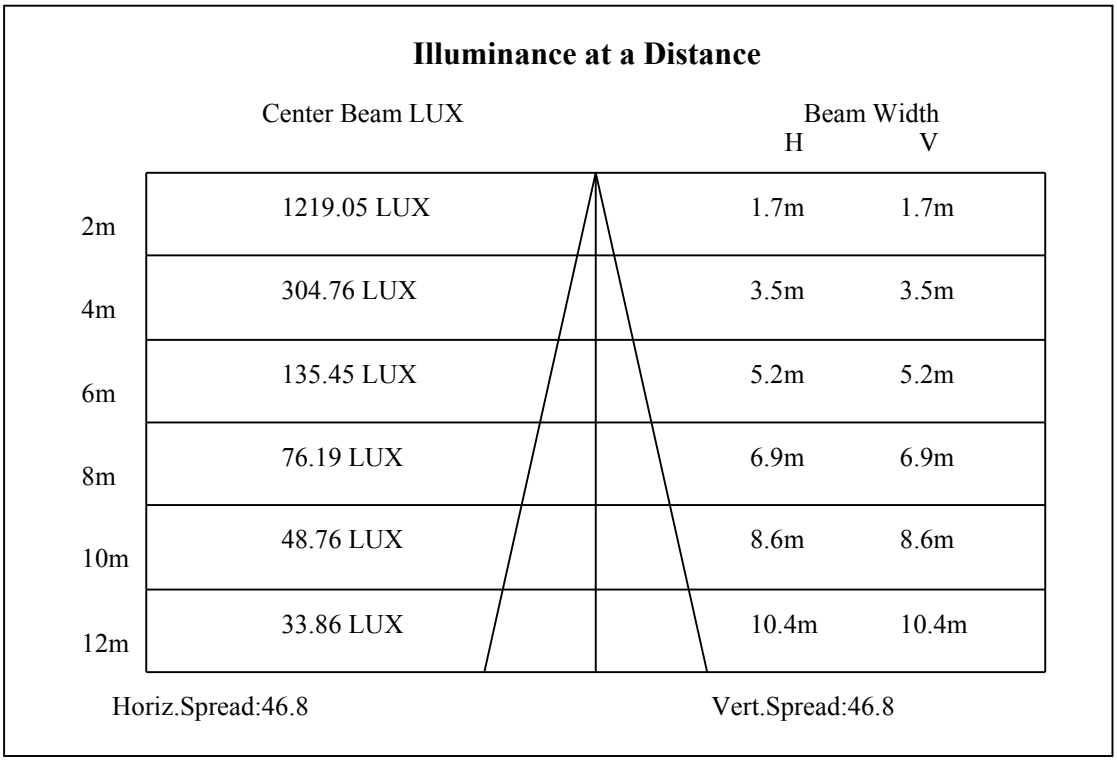
C0/C180:

C90/C270:

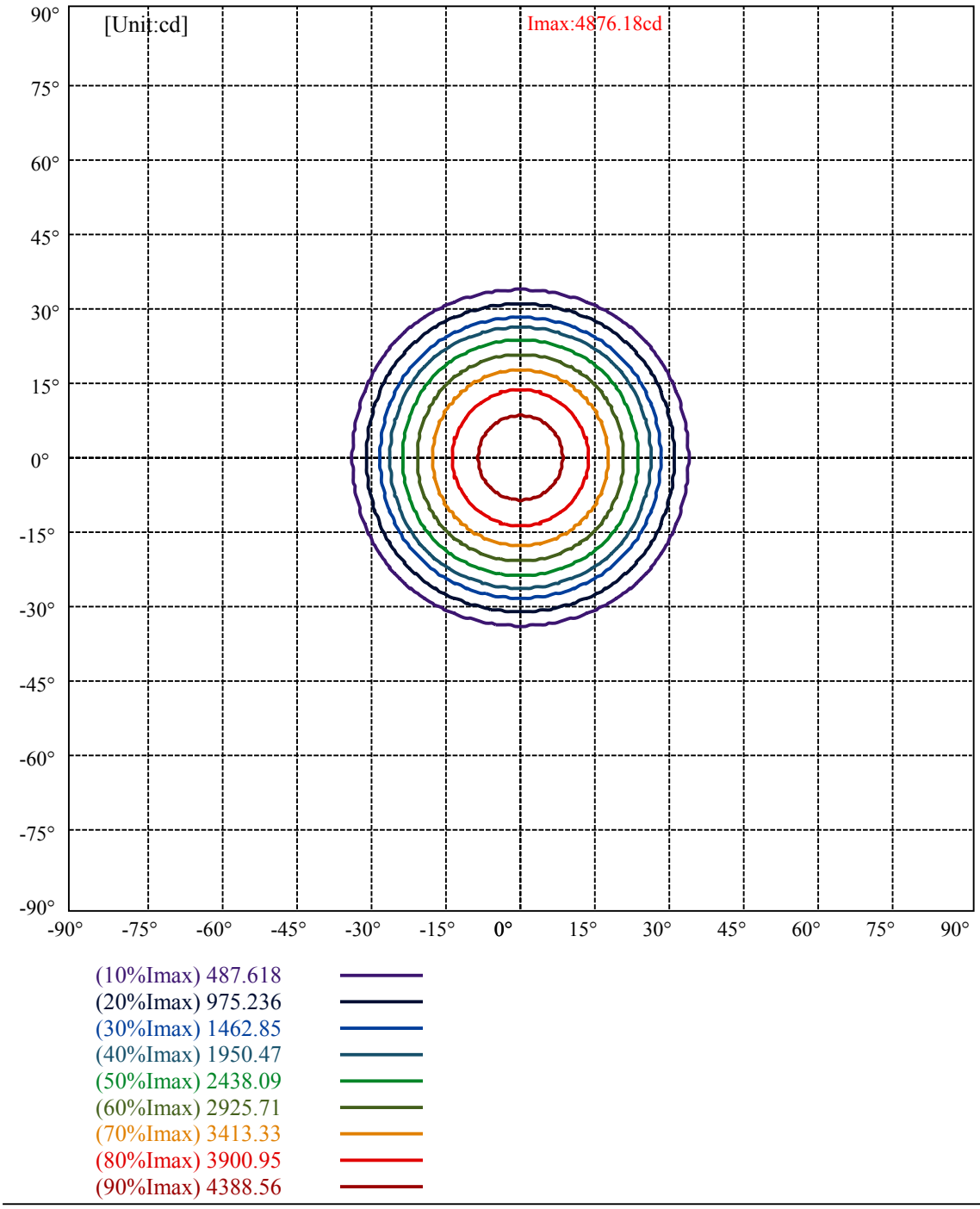
Field angle(10%Imax):C0/180Left:33.4 Right:33.4
:C90/270Left:33.4 Right:33.4

Beam Angle(50%Imax):C0/180Left:23.4 Right:23.4
:C90/270Left:23.4 Right:23.4

Lux distance Curve



ISO-Intensity(V-H)

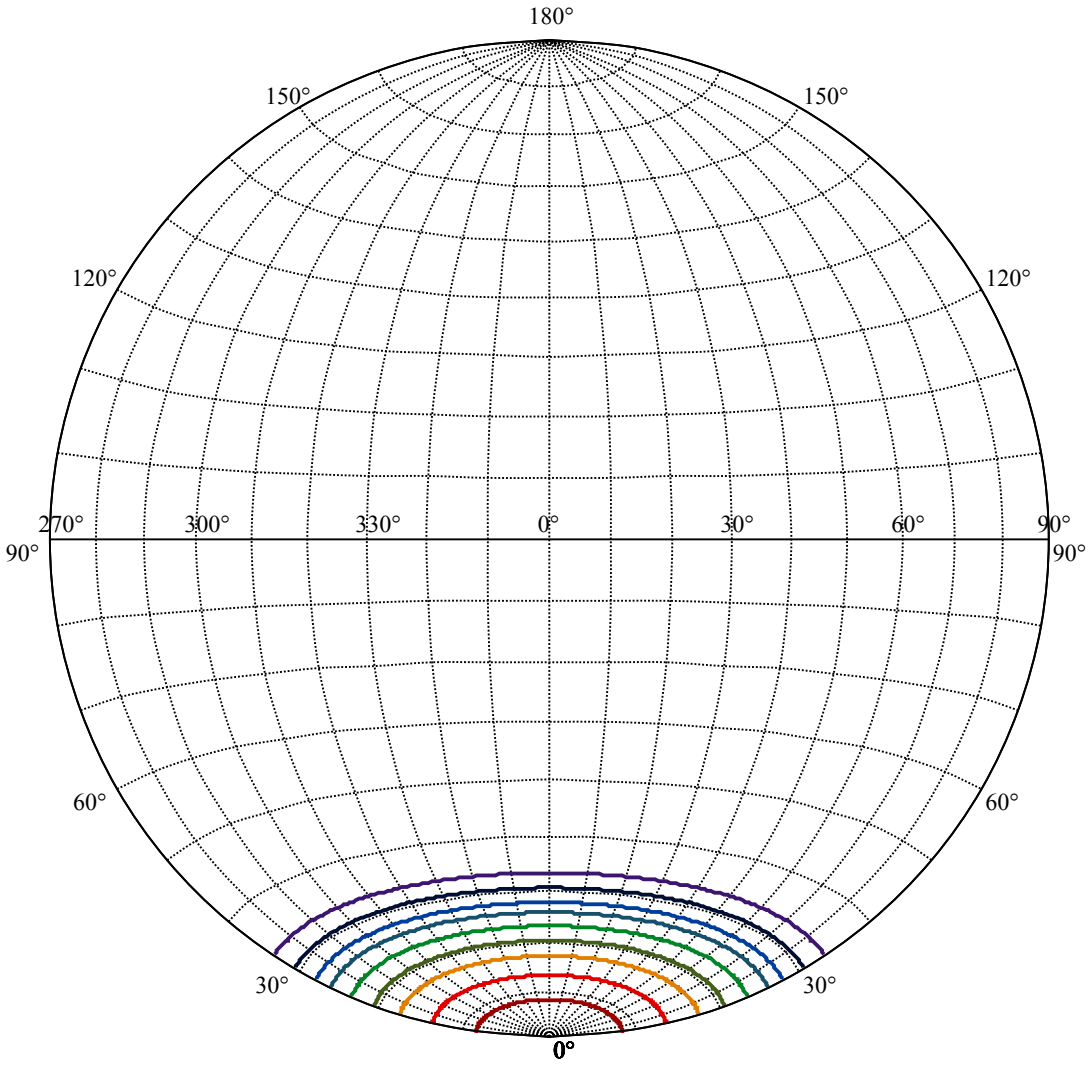


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/11/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



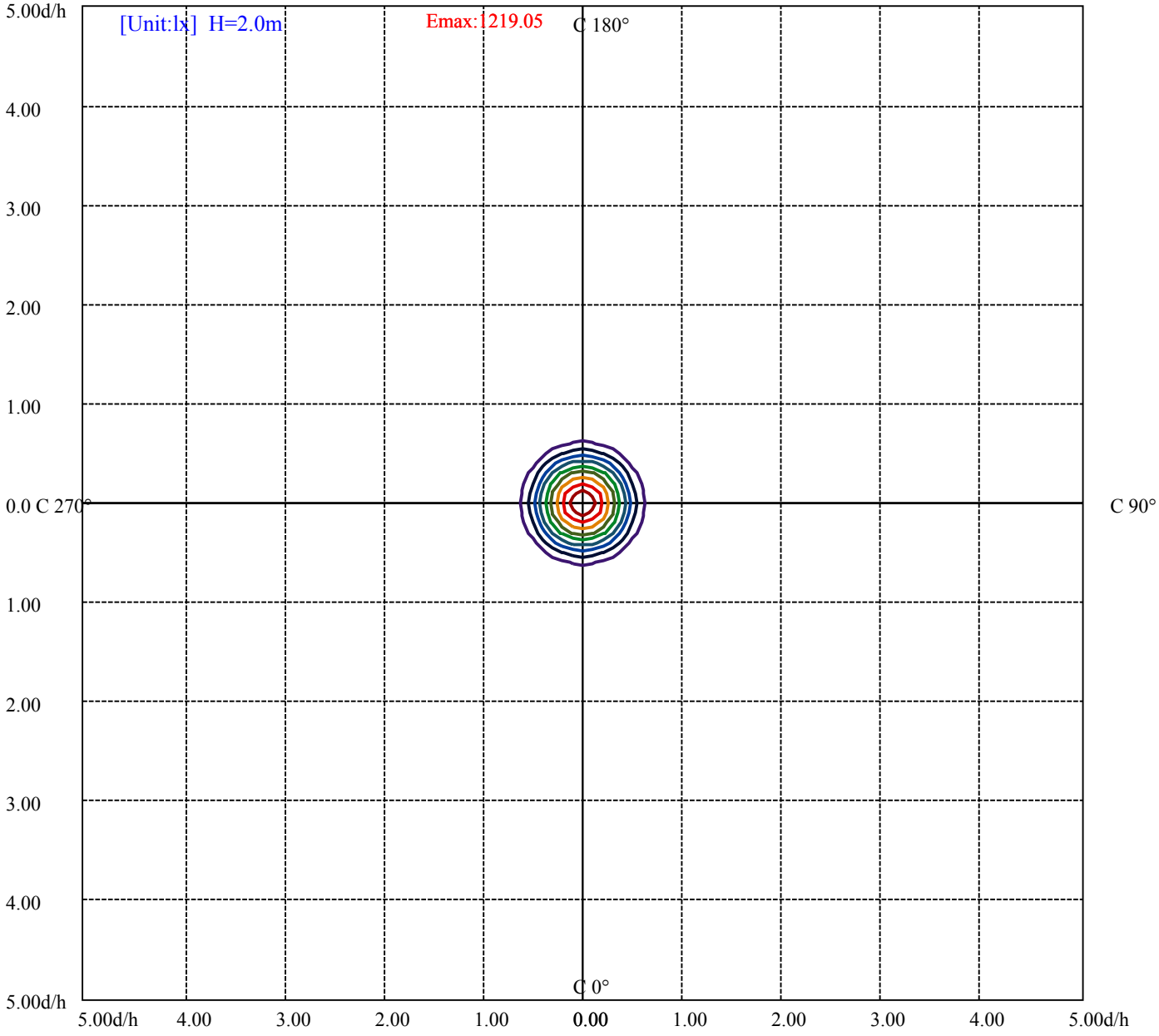
House [Unit:cd] Road

Imax:4876.18

(10%Imax) 487.618
(20%Imax) 975.236
(30%Imax) 1462.85
(40%Imax) 1950.47
(50%Imax) 2438.09
(60%Imax) 2925.71
(70%Imax) 3413.33
(80%Imax) 3900.95
(90%Imax) 4388.56

Equipment: GMS1980 Date: 2023/11/11 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

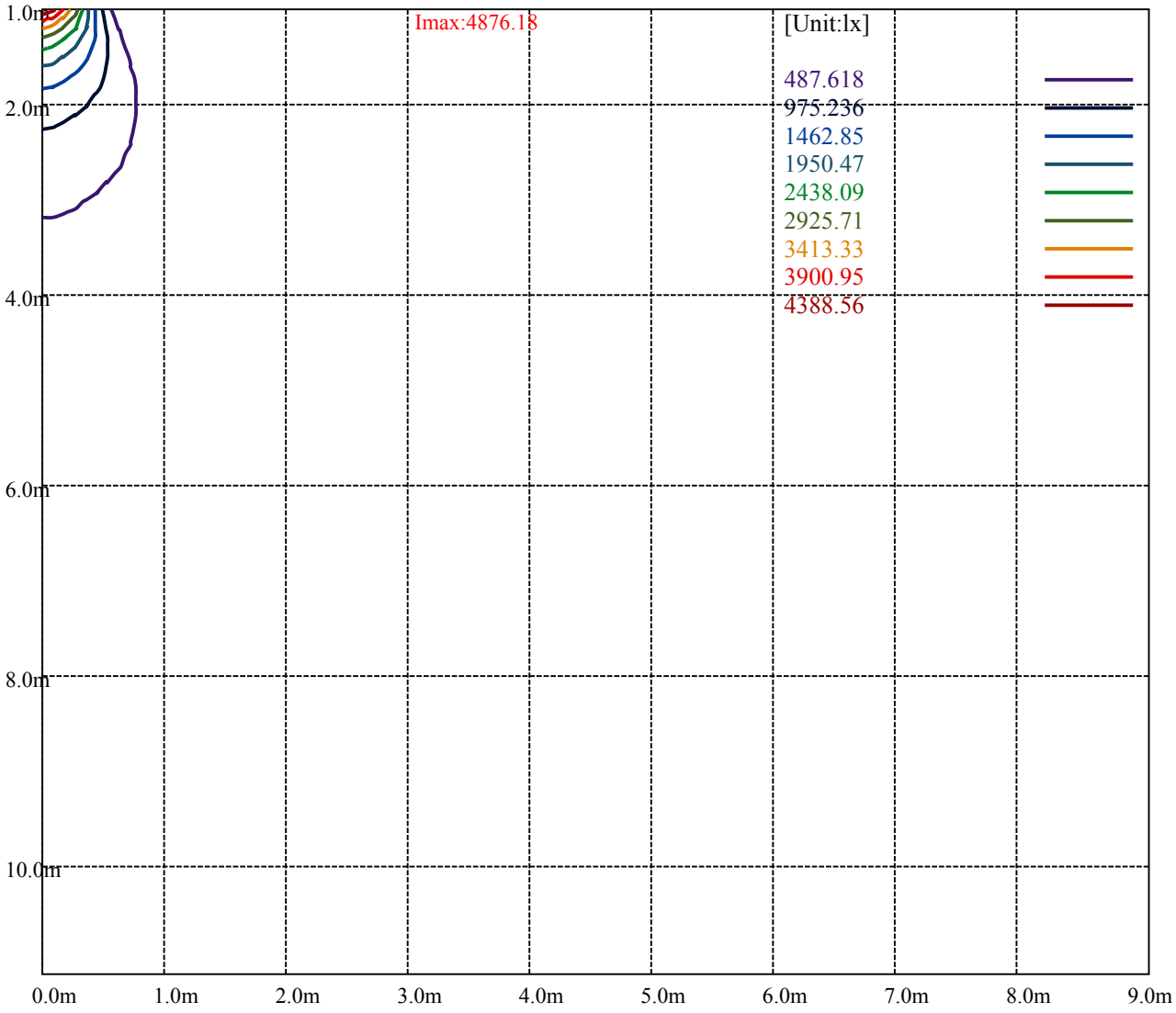
ISO illuminance diagram



(10%Emax) 121.9045
(20%Emax) 243.809
(30%Emax) 365.7125
(40%Emax) 487.6175
(50%Emax) 609.5225
(60%Emax) 731.4275
(70%Emax) 853.3325
(80%Emax) 975.235
(90%Emax) 1097.14

Equipment: GMS1980
Temperature(°C): 25.0
Date: 2023/11/11
Humidity(%): 60.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2023/11/11
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

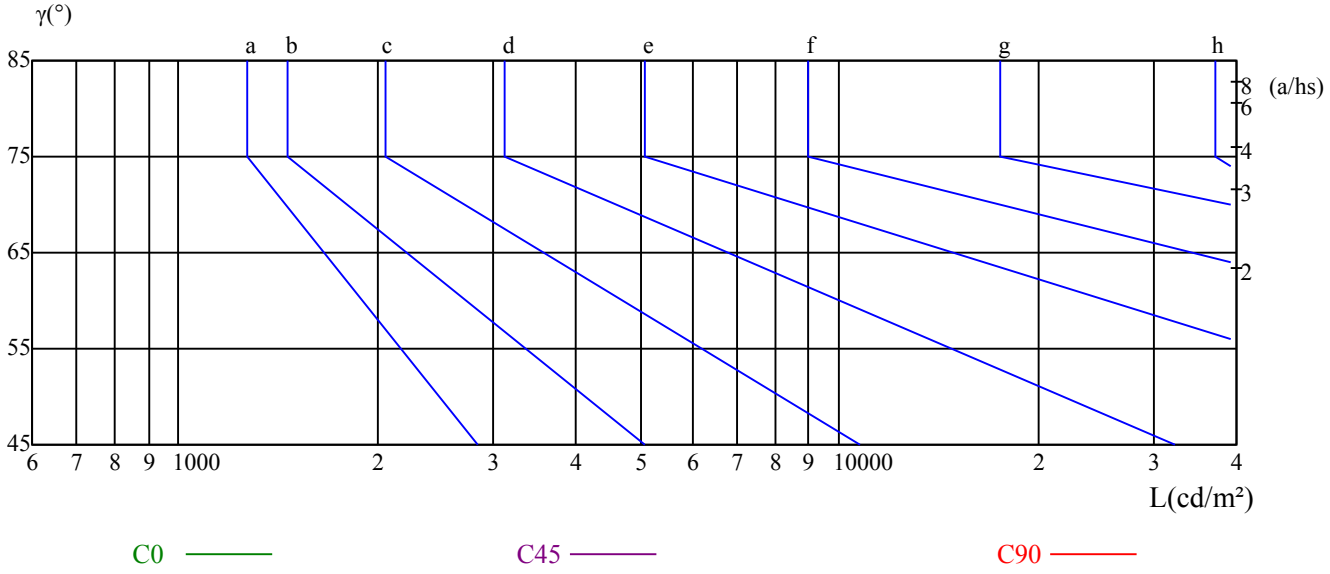
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

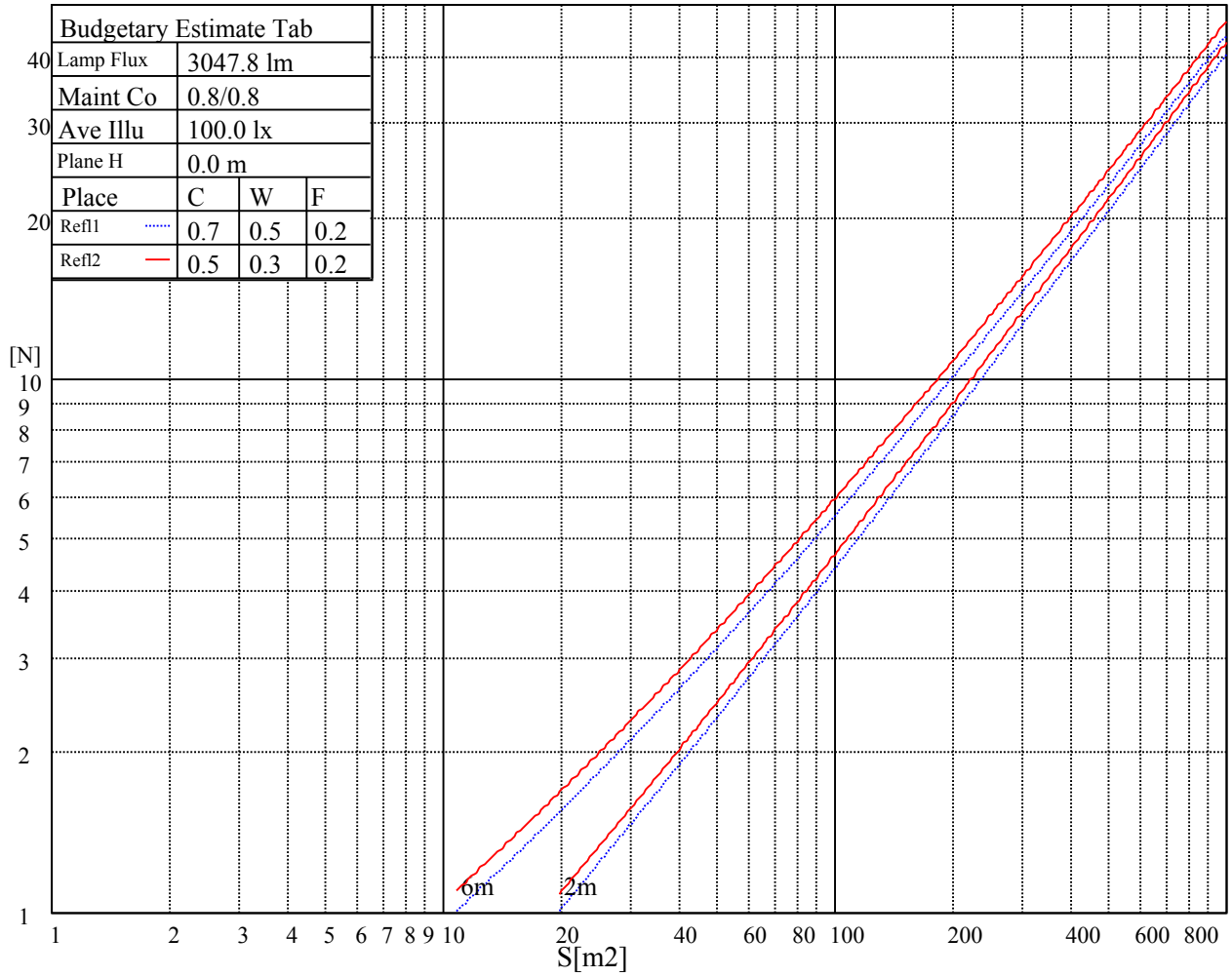


UGR Glare

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

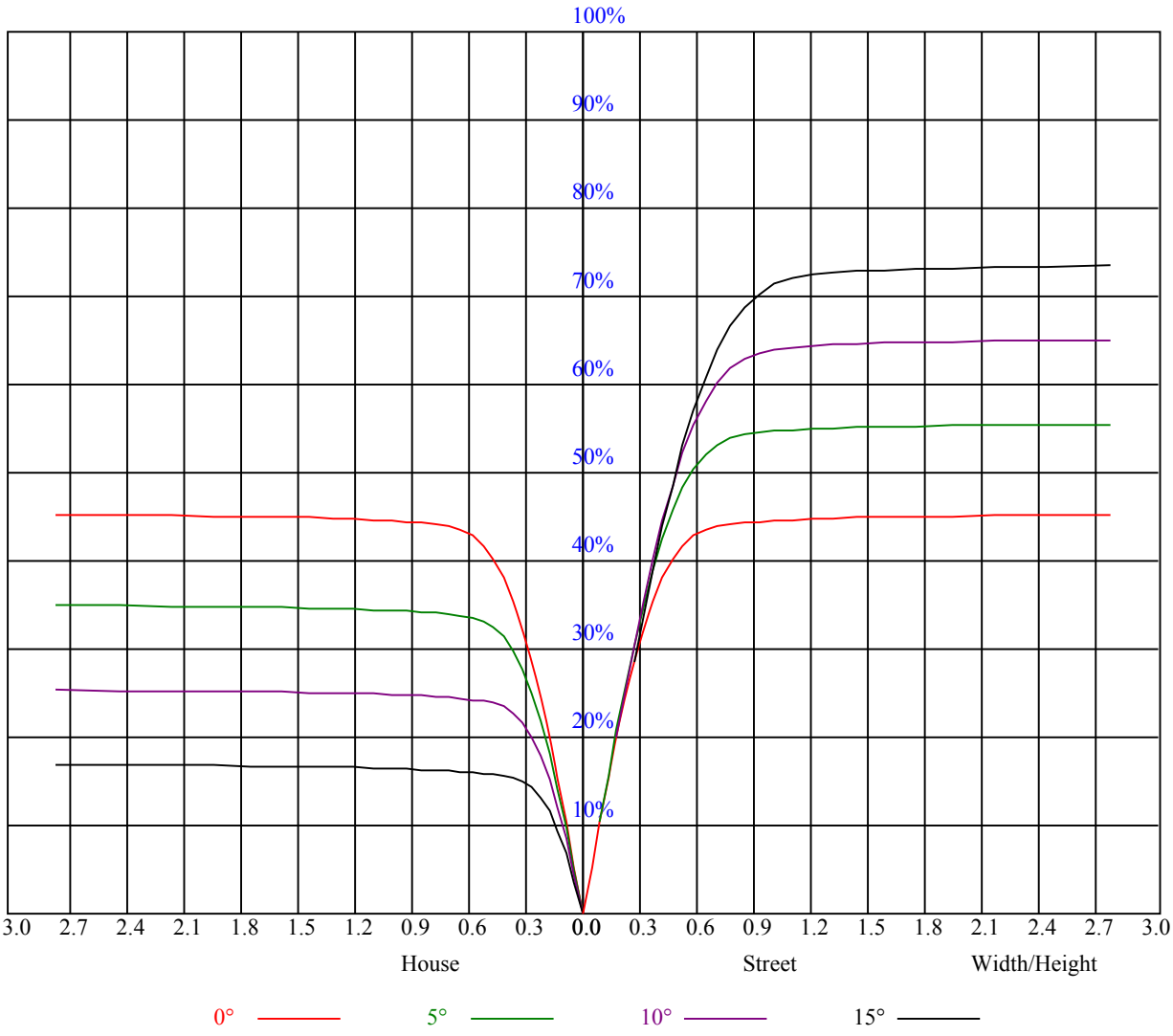


Equipment: GMS1980	Date: 2023/11/11	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.44

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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/11	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	4845.60	4794.67	4719.39	4657.95	4564.40	4493.55	4418.82	4336.35	4229.51
45.0	4887.67	4855.01	4828.99	4775.85	4688.95	4615.33	4538.39	4446.50	4370.11
90.0	4882.13	4848.37	4794.12	4738.77	4670.68	4600.94	4514.03	4438.75	4340.22
135.0	4889.33	4894.31	4869.95	4838.40	4779.17	4719.39	4636.92	4572.15	4466.98
180.0	4845.60	4888.22	4905.93	4880.47	4858.33	4833.42	4751.50	4675.66	4609.79
225.0	4887.67	4898.18	4871.06	4838.40	4803.53	4735.45	4637.47	4563.30	4499.09
270.0	4882.13	4890.99	4887.67	4845.60	4802.98	4754.27	4671.79	4585.99	4509.60
315.0	4889.33	4867.19	4802.98	4752.60	4694.48	4618.65	4525.65	4452.03	4378.41
360.0	4845.60	4794.67	4719.39	4657.95	4564.40	4493.55	4418.82	4336.35	4229.51

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4143.16	4051.27	3956.07	3829.31	3729.12	3621.18	3501.61	3323.93	3186.65
45.0	4279.88	4190.77	4082.27	3988.73	3889.09	3758.45	3654.94	3508.81	3390.91
90.0	4233.94	4142.05	4021.38	3923.41	3828.75	3700.33	3591.29	3469.51	3357.69
135.0	4395.57	4311.99	4237.82	4121.57	4027.47	3929.50	3797.20	3680.96	3557.52
180.0	4535.07	4447.05	4372.33	4291.51	4183.02	4088.36	3984.30	3855.88	3747.38
225.0	4427.13	4336.90	4255.53	4176.93	4076.74	3959.39	3855.88	3745.72	3610.11
270.0	4424.91	4342.43	4264.94	4155.89	4073.97	3971.01	3873.04	3747.94	3634.46
315.0	4293.72	4192.98	4109.40	4015.29	3896.28	3783.92	3680.41	3534.83	3400.87
360.0	4143.16	4051.27	3956.07	3829.31	3729.12	3621.18	3501.61	3323.93	3186.65

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3003.98	2847.33	2705.63	2524.07	2374.06	2214.09	2035.85	1802.26	1609.07
45.0	3263.04	3126.32	2955.83	2819.10	2687.36	2547.32	2361.88	2191.95	1996.00
90.0	3194.95	3056.02	2903.79	2759.32	2573.33	2424.43	2257.82	2022.57	1817.76
135.0	3395.33	3263.59	3068.19	2909.88	2752.13	2593.26	2389.56	2219.62	2033.64
180.0	3581.88	3429.65	3285.18	3125.21	2894.38	2700.09	2527.94	2356.90	2150.43
225.0	3427.44	3273.00	3064.32	2896.60	2728.32	2524.62	2358.01	2194.71	2013.71
270.0	3524.31	3377.07	3193.85	3054.36	2895.49	2690.68	2524.07	2337.53	2167.04
315.0	3258.06	3065.98	2906.56	2741.61	2579.42	2380.70	2229.03	2057.99	1873.66
360.0	3003.98	2847.33	2705.63	2524.07	2374.06	2214.09	2035.85	1802.26	1609.07

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1073.36	1073.36	983.19	806.28	639.39	488.22	334.23	244.77	182.83
45.0	1739.71	1527.70	1316.81	1066.61	878.96	701.27	508.64	382.44	282.80
90.0	1605.20	1078.51	1078.51	929.89	744.95	539.42	401.92	294.81	212.83
135.0	1833.26	1576.97	1377.14	1180.64	994.10	767.15	599.98	456.06	306.05
180.0	1973.85	1783.44	1549.85	1356.11	1165.14	940.40	762.16	600.53	426.72
225.0	1774.58	1573.65	1074.97	1074.97	930.05	750.98	588.24	443.99	295.48
270.0	1986.59	1796.72	1539.88	1336.73	1128.05	932.10	703.49	542.96	401.81
315.0	1635.09	1100.10	1100.10	1052.55	821.28	650.07	463.25	338.87	241.51
360.0	1073.36	1073.36	983.19	806.28	639.39	488.22	334.23	244.77	182.83

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	151.56	128.53	107.33	94.21	83.14	72.07	65.04	59.28	54.47
45.0	282.80	165.34	139.05	119.62	104.29	89.12	79.27	71.13	62.99
90.0	174.59	146.41	125.93	106.78	94.27	83.92	73.23	66.20	60.39
135.0	282.25	202.10	143.53	123.99	109.16	93.94	83.81	75.23	68.25
180.0	305.50	280.59	280.59	138.11	119.07	104.34	91.94	79.65	71.41
225.0	212.50	159.64	134.34	115.47	97.70	86.02	76.66	68.75	60.89
270.0	286.12	286.12	153.72	128.86	106.78	93.49	80.04	71.30	64.21
315.0	173.26	144.47	122.94	106.33	90.17	79.60	71.02	62.33	56.90
360.0	151.56	128.53	107.33	94.21	83.14	72.07	65.04	59.28	54.47

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	49.49	46.11	43.12	40.57	37.75	35.76	33.99	31.99	30.61
45.0	57.62	53.19	48.49	45.17	41.63	39.19	37.03	35.04	33.32
90.0	54.47	50.48	47.00	43.23	40.57	38.25	36.20	33.82	32.22
135.0	61.06	56.29	52.25	48.71	44.67	41.96	38.91	36.87	34.98
180.0	64.71	58.23	53.91	49.32	46.11	43.18	40.63	37.70	35.59
225.0	55.85	51.64	47.99	44.01	41.24	38.80	36.04	34.10	32.33
270.0	57.29	52.75	48.93	45.61	42.01	39.58	37.36	35.32	33.05
315.0	52.36	48.55	44.45	41.68	39.19	36.48	34.54	32.44	31.00
360.0	49.49	46.11	43.12	40.57	37.75	35.76	33.99	31.99	30.61

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	29.06	27.95	26.96	26.07	25.08	24.30	23.58	22.92	22.14
45.0	31.39	30.06	28.84	27.73	26.51	25.57	24.74	23.75	23.08
90.0	30.78	29.34	27.84	26.74	25.57	24.69	23.91	23.03	22.36
135.0	32.88	31.39	30.00	28.78	27.40	26.40	25.46	24.63	23.69
180.0	33.77	32.11	30.22	28.95	27.79	26.74	25.52	24.63	23.86
225.0	30.39	29.06	27.51	26.46	25.46	24.52	23.69	22.86	22.14
270.0	31.44	30.06	28.45	27.34	26.07	25.19	24.36	23.58	22.69
315.0	29.67	28.45	27.18	26.18	25.30	24.47	23.58	22.92	22.31
360.0	29.06	27.95	26.96	26.07	25.08	24.30	23.58	22.92	22.14

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.59	21.03	20.31	19.82	19.32	18.76	18.32	17.88	17.38
45.0	22.25	21.64	21.09	20.43	19.93	19.43	18.93	18.38	17.93
90.0	21.75	21.03	20.48	19.93	19.43	18.88	18.43	17.99	17.55
135.0	22.92	22.36	21.59	20.92	20.43	19.82	19.32	18.82	18.27
180.0	22.97	22.31	21.48	20.92	20.37	19.71	19.26	18.82	18.38
225.0	21.53	20.92	20.26	19.76	19.15	18.71	18.32	17.77	17.44
270.0	22.09	21.42	20.81	20.20	19.71	19.21	18.82	18.27	17.82
315.0	21.53	20.98	20.48	19.87	19.43	18.99	18.43	18.05	17.60
360.0	21.59	21.03	20.31	19.82	19.32	18.76	18.32	17.88	17.38

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.99	16.61	16.16	15.72	15.33	15.00	14.61	14.12	13.78
45.0	17.49	17.10	16.61	16.22	15.78	15.33	14.95	14.56	14.12
90.0	17.05	16.66	16.22	15.72	15.33	14.89	14.45	14.12	13.78
135.0	17.82	17.38	16.94	16.50	16.11	15.67	15.17	14.78	14.39
180.0	17.82	17.44	17.05	16.66	16.22	15.83	15.50	15.06	14.67
225.0	17.05	16.61	16.27	15.89	15.50	15.11	14.72	14.39	14.06
270.0	17.38	16.99	16.66	16.22	15.83	15.44	15.11	14.67	14.34
315.0	17.21	16.77	16.38	16.00	15.67	15.17	14.89	14.39	14.06
360.0	16.99	16.61	16.16	15.72	15.33	15.00	14.61	14.12	13.78

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.45	13.17	12.79	12.62	12.40	12.07	11.90	11.57	11.73
45.0	13.78	13.40	13.06	12.79	12.57	12.29	12.01	11.85	11.57
90.0	13.40	13.06	12.84	12.57	12.29	12.07	11.90	11.62	11.73
135.0	13.95	13.62	13.17	12.90	12.57	12.40	12.12	11.90	11.62
180.0	14.28	13.84	13.51	13.17	12.90	12.57	12.23	12.07	11.85
225.0	13.73	13.40	13.06	12.79	12.57	12.18	11.96	11.79	11.57
270.0	14.00	13.62	13.28	12.95	12.62	12.40	12.12	11.90	11.68
315.0	13.73	13.40	13.06	12.79	12.51	12.29	12.01	11.85	11.57
360.0	13.45	13.17	12.79	12.62	12.40	12.07	11.90	11.57	11.73

Intensity data(cd)

C/γ(°)	90.0
0.0	11.73
45.0	11.79
90.0	11.79
135.0	11.73
180.0	11.57
225.0	11.51
270.0	11.51
315.0	11.57
360.0	11.73