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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

Client:
LumCAT: 2-2645-L
Luminaire: 92.70.412.00
Report No: 20231009-B005
Ballast type: AC

Test No: 20231009-C005	Voltage(V): 34.180
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
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): 1971.24, Efficiency(%): 94.27% , Luminous Efficacy(lm/W): 127.88
Central intensity(cd): 4516.245, Maximum intensity(cd): 4516.245
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=38.2
[C90/270]Total=38.2
Field angle(10%Imax): [C0/180]Total=62.4
[C90/270]Total=62.4
Maximum s/h(1/2): C0_180=0.62 C90_270=0.62
Maximum s/h(1/4): C0_180=0.60 C90_270=0.60
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 94.27%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.305%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	4516.245	0.000	0	0.00%	0.00%
1.0	4505.105	4.317	4.317	0.21%	0.22%
2.0	4471.339	12.884	17.2	0.62%	0.87%
3.0	4421.729	21.269	38.47	1.02%	1.95%
4.0	4355.996	29.382	67.852	1.41%	3.44%
5.0	4273.658	37.124	104.976	1.78%	5.33%
6.0	4183.916	44.447	149.423	2.13%	7.58%
7.0	4081.235	51.302	200.724	2.45%	10.18%
8.0	3981.875	57.706	258.43	2.76%	13.11%
9.0	3876.219	63.686	322.116	3.05%	16.34%
10.0	3762.052	69.124	391.24	3.31%	19.85%
11.0	3629.965	73.861	465.101	3.53%	23.59%
12.0	3491.511	77.848	542.949	3.72%	27.54%
13.0	3347.592	81.163	624.112	3.88%	31.66%
14.0	3189.834	83.678	707.79	4.00%	35.91%
15.0	3015.194	85.185	792.976	4.07%	40.23%
16.0	2844.497	85.861	878.837	4.11%	44.58%
17.0	2651.313	85.585	964.421	4.09%	48.92%
18.0	2475.150	84.524	1048.945	4.04%	53.21%
19.0	2275.877	82.658	1131.603	3.95%	57.41%
20.0	2067.056	79.488	1211.091	3.80%	61.44%
21.0	1873.595	75.668	1286.76	3.62%	65.28%
22.0	1687.468	71.561	1358.321	3.42%	68.91%
23.0	1444.438	65.716	1424.037	3.14%	72.24%
24.0	1255.544	59.031	1483.068	2.82%	75.24%
25.0	1166.916	55.081	1538.149	2.63%	78.03%
26.0	1053.504	52.413	1590.563	2.51%	80.69%
27.0	917.417	48.219	1638.782	2.31%	83.13%
28.0	791.896	43.276	1682.058	2.07%	85.33%
29.0	675.798	38.399	1720.457	1.84%	87.28%
30.0	572.522	33.704	1754.161	1.61%	88.99%
31.0	471.038	29.041	1783.202	1.39%	90.46%
32.0	383.116	24.471	1807.673	1.17%	91.70%
33.0	312.436	20.491	1828.164	0.98%	92.74%
34.0	251.672	17.072	1845.235	0.82%	93.61%
35.0	228.493	14.912	1860.147	0.71%	94.36%
36.0	157.716	12.297	1872.444	0.59%	94.99%
37.0	119.674	9.047	1881.491	0.43%	95.45%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	94.931	7.163	1888.655	0.34%	95.81%
39.0	74.319	5.777	1894.432	0.28%	96.10%
40.0	59.526	4.668	1899.1	0.22%	96.34%
41.0	48.255	3.838	1902.938	0.18%	96.54%
42.0	40.719	3.233	1906.17	0.15%	96.70%
43.0	35.260	2.815	1908.985	0.13%	96.84%
44.0	31.316	2.513	1911.498	0.12%	96.97%
45.0	28.320	2.292	1913.789	0.11%	97.09%
46.0	26.002	2.124	1915.914	0.10%	97.19%
47.0	24.120	1.994	1917.907	0.10%	97.29%
48.0	22.363	1.879	1919.786	0.09%	97.39%
49.0	21.055	1.783	1921.569	0.09%	97.48%
50.0	19.775	1.702	1923.272	0.08%	97.57%
51.0	18.834	1.633	1924.905	0.08%	97.65%
52.0	17.935	1.578	1926.483	0.08%	97.73%
53.0	17.153	1.526	1928.009	0.07%	97.81%
54.0	16.530	1.485	1929.494	0.07%	97.88%
55.0	15.970	1.451	1930.945	0.07%	97.96%
56.0	15.485	1.421	1932.366	0.07%	98.03%
57.0	15.049	1.396	1933.762	0.07%	98.10%
58.0	14.662	1.374	1935.136	0.07%	98.17%
59.0	14.309	1.354	1936.49	0.06%	98.24%
60.0	14.004	1.338	1937.828	0.06%	98.31%
61.0	13.672	1.321	1939.149	0.06%	98.37%
62.0	13.409	1.305	1940.454	0.06%	98.44%
63.0	13.160	1.292	1941.746	0.06%	98.50%
64.0	12.911	1.279	1943.025	0.06%	98.57%
65.0	12.669	1.266	1944.291	0.06%	98.63%
66.0	12.448	1.253	1945.545	0.06%	98.70%
67.0	12.199	1.239	1946.784	0.06%	98.76%
68.0	11.998	1.226	1948.01	0.06%	98.82%
69.0	11.756	1.212	1949.221	0.06%	98.88%
70.0	11.534	1.196	1950.417	0.06%	98.94%
71.0	11.313	1.181	1951.598	0.06%	99.00%
72.0	11.119	1.166	1952.765	0.06%	99.06%
73.0	10.932	1.153	1953.918	0.06%	99.12%
74.0	10.752	1.140	1955.058	0.05%	99.18%
75.0	10.579	1.127	1956.185	0.05%	99.24%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.434	1.115	1957.3	0.05%	99.29%
77.0	10.233	1.102	1958.402	0.05%	99.35%
78.0	10.033	1.085	1959.487	0.05%	99.40%
79.0	9.853	1.068	1960.556	0.05%	99.46%
80.0	9.666	1.052	1961.608	0.05%	99.51%
81.0	9.452	1.034	1962.642	0.05%	99.56%
82.0	9.279	1.016	1963.658	0.05%	99.62%
83.0	9.106	0.999	1964.657	0.05%	99.67%
84.0	8.933	0.983	1965.64	0.05%	99.72%
85.0	8.760	0.966	1966.605	0.05%	99.76%
86.0	8.628	0.950	1967.556	0.05%	99.81%
87.0	8.497	0.937	1968.493	0.04%	99.86%
88.0	8.379	0.924	1969.417	0.04%	99.91%
89.0	8.289	0.914	1970.331	0.04%	99.95%
90.0	8.248	0.907	1971.238	0.04%	100.00%

Zonal flux distribution table

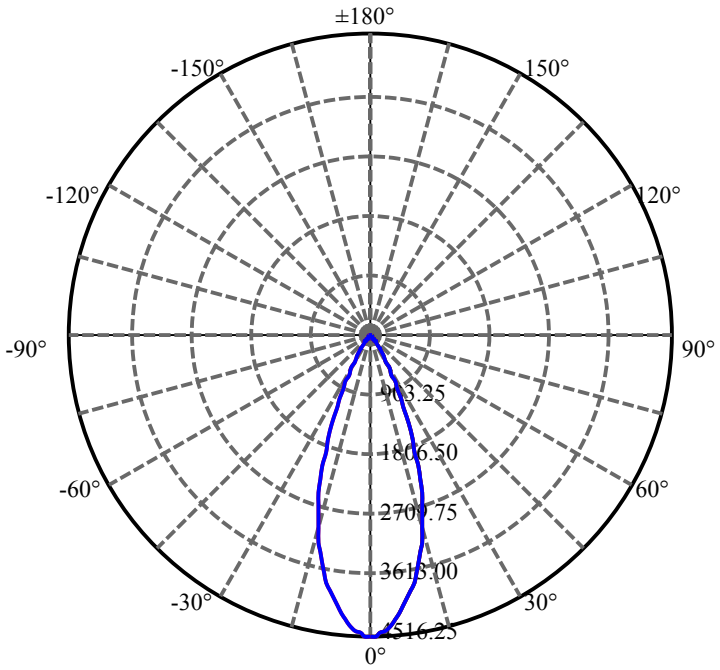
ZONAL LUMEN SUMMARY

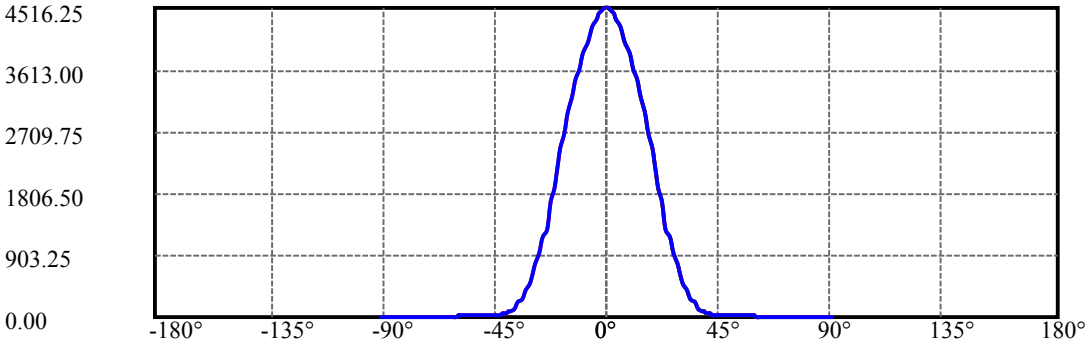
Zone	Lumens	%Lamp	%Fixt
0-30	1754.16	83.89%	88.99%
0-40	1899.10	90.82%	96.34%
0-60	1937.83	92.67%	98.31%
0-90	1970.33	94.22%	99.95%
0-120	1970.33	94.22%	99.95%
0-180	1971.24	94.27%	100.00%
60-90	32.50	1.55%	1.65%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.74	1576.99	75.41%	80.00%

ZONAL LUMEN SUMMARY

0-10	391.24
10-20	819.85
20-30	543.07
30-40	144.94
40-50	24.17
50-60	14.56
60-70	12.59
70-80	11.19
80-90	8.72
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):

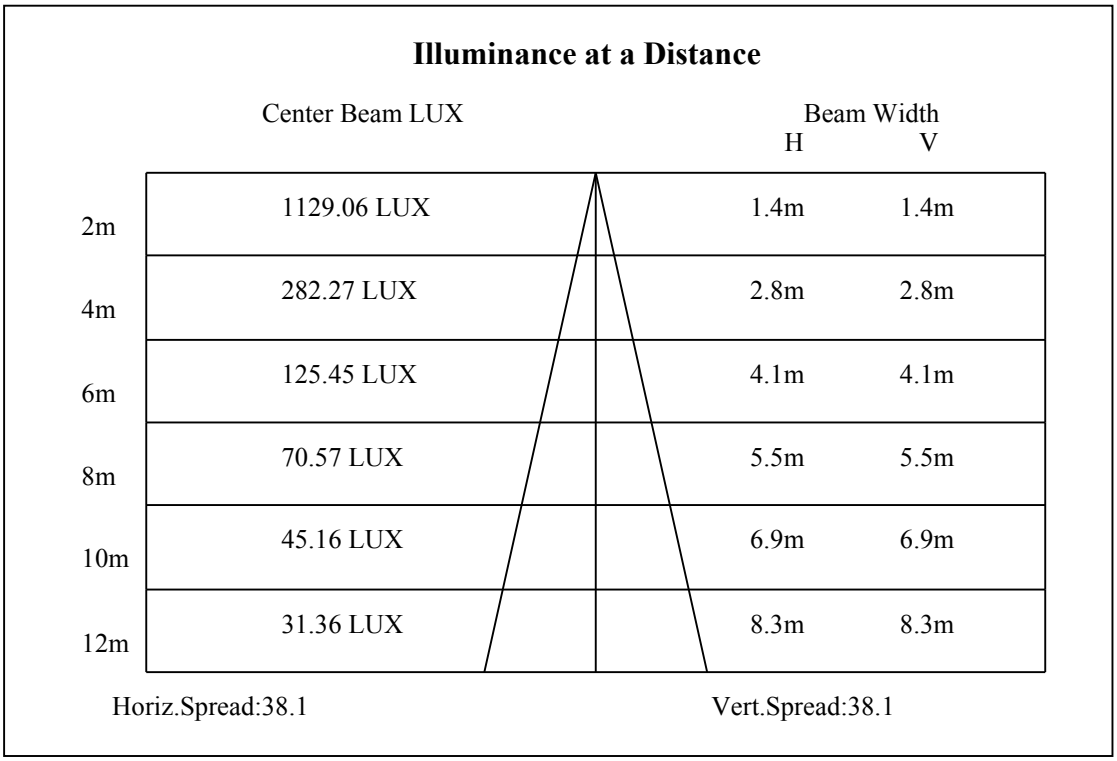
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:31.2 Right:31.2
:C90/270Left:31.2 Right:31.2

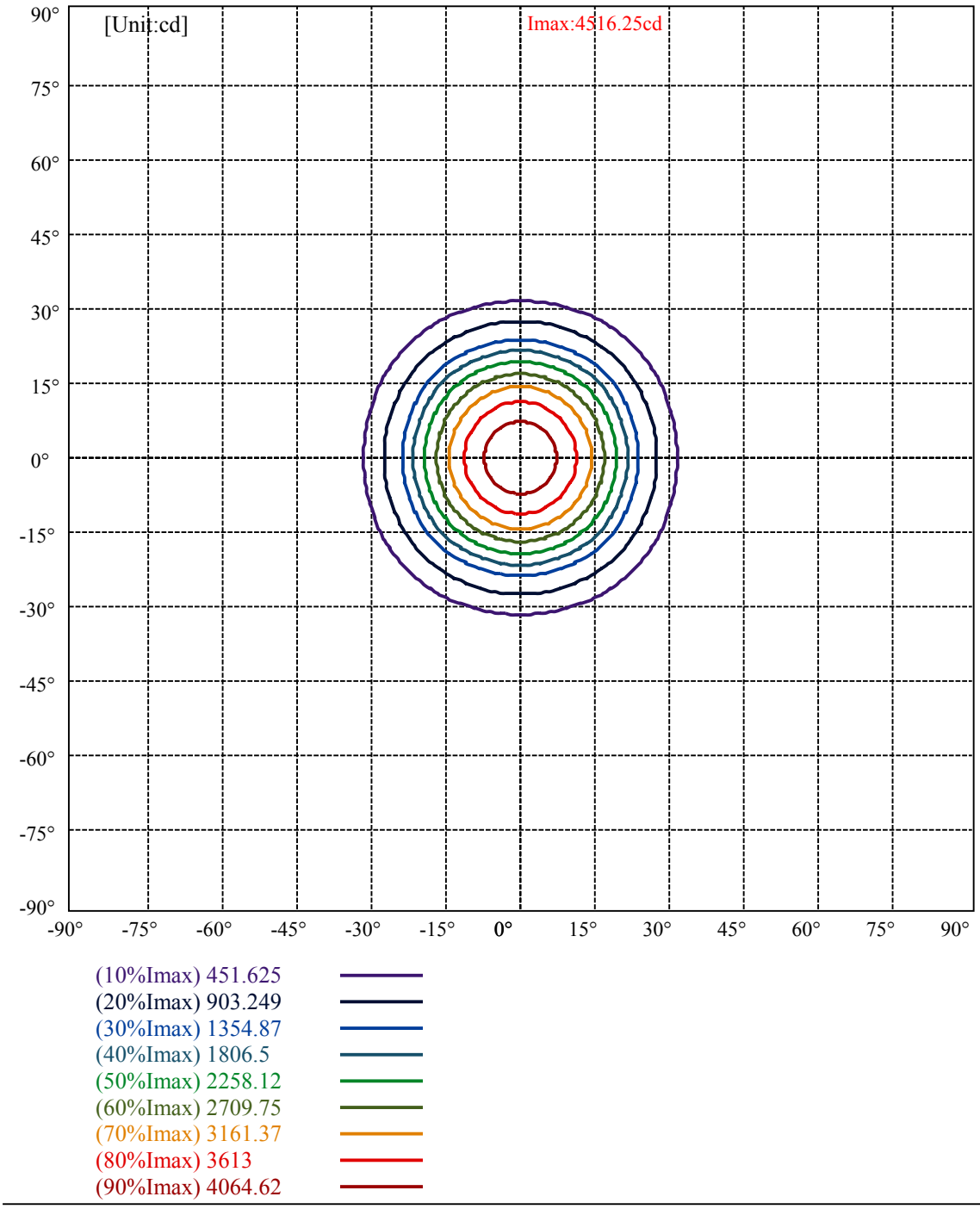
Beam Angle(50%Imax):C0/180Left:19.1 Right:19.1
:C90/270Left:19.1 Right:19.1

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)

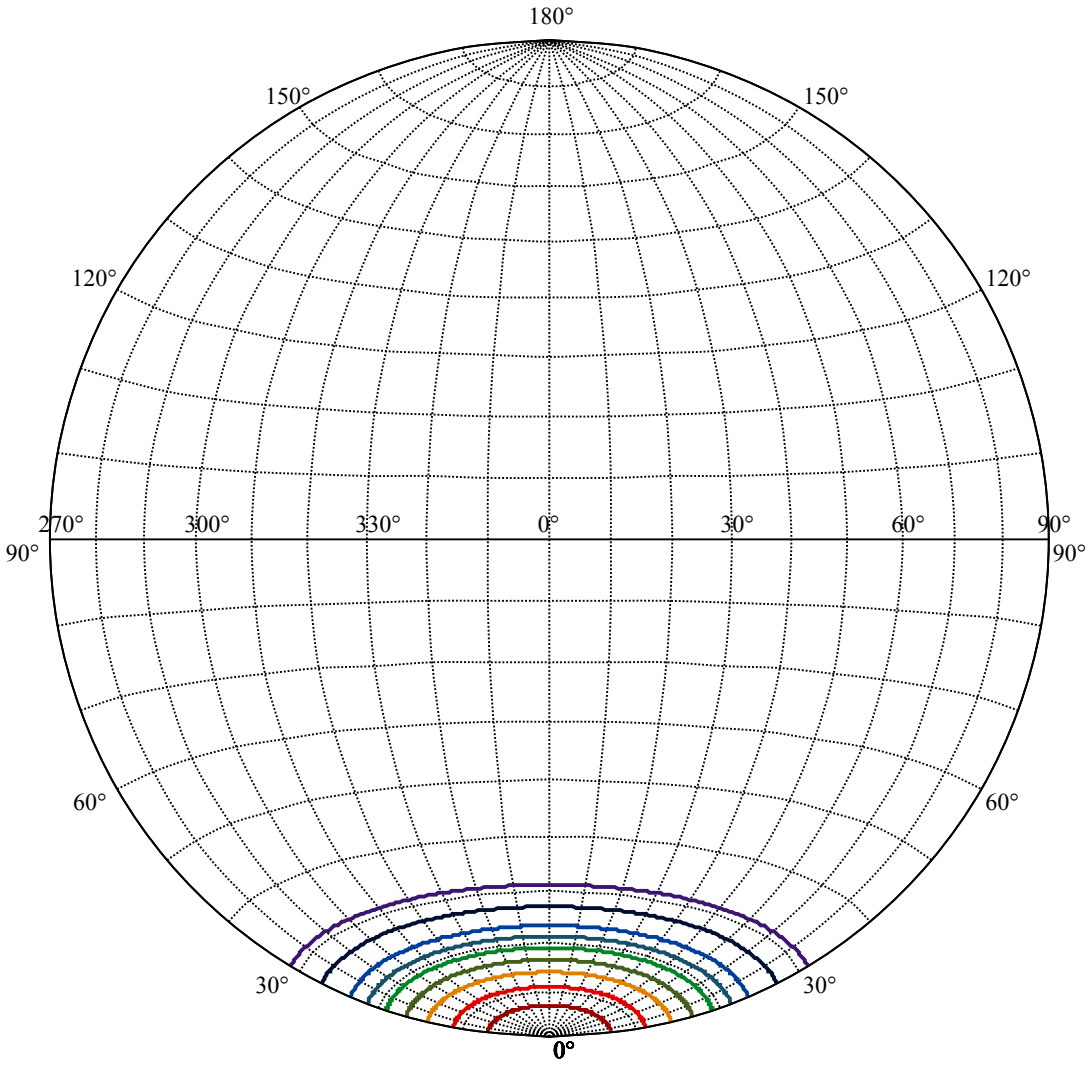


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



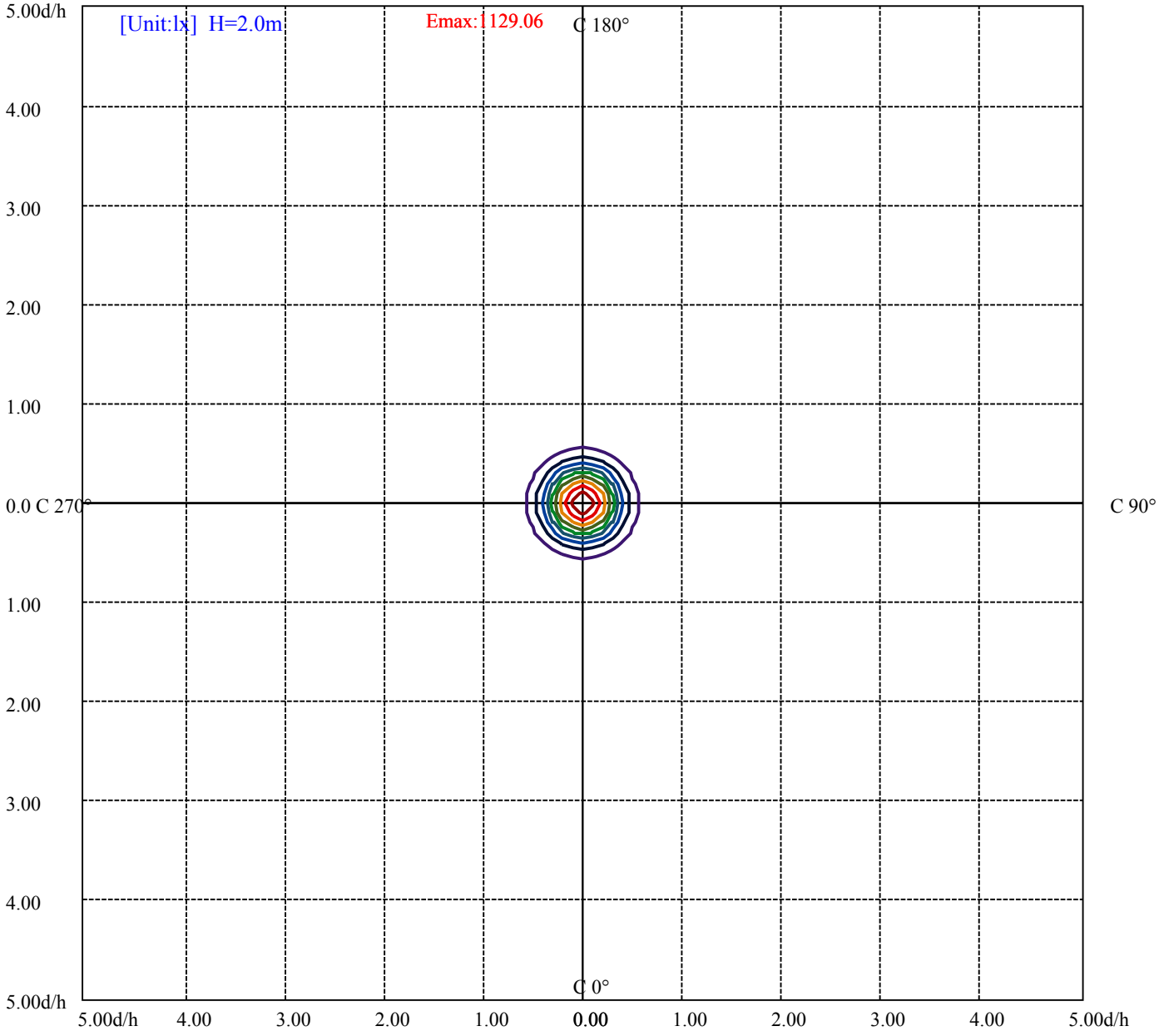
House [Unit:cd] Road

Imax:4516.25

(10%Imax) 451.625
(20%Imax) 903.249
(30%Imax) 1354.87
(40%Imax) 1806.5
(50%Imax) 2258.12
(60%Imax) 2709.75
(70%Imax) 3161.37
(80%Imax) 3613
(90%Imax) 4064.62

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

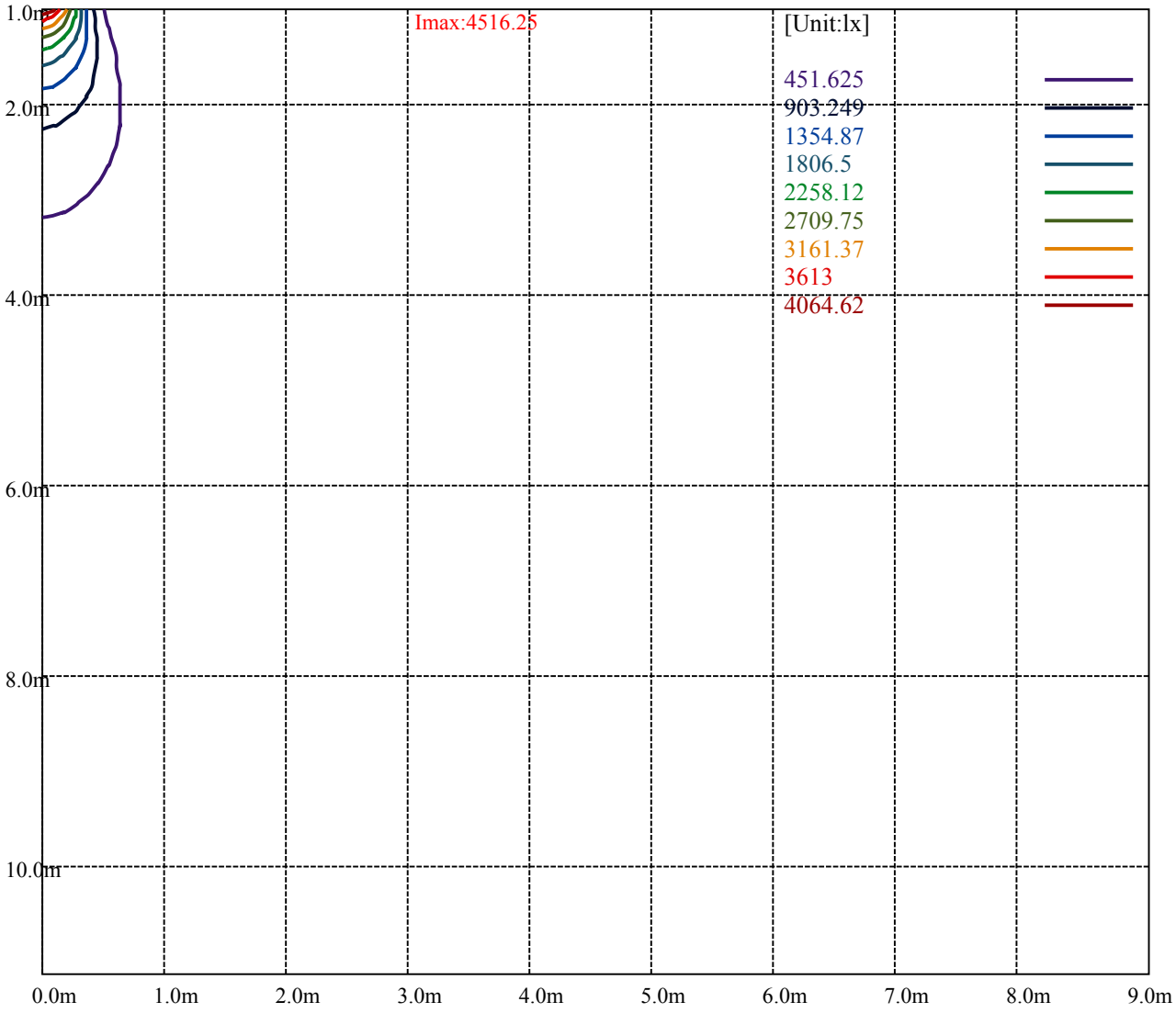
ISO illuminance diagram



(10%Emax) 112.906
(20%Emax) 225.8123
(30%Emax) 338.7175
(40%Emax) 451.625
(50%Emax) 564.53
(60%Emax) 677.4375
(70%Emax) 790.3425
(80%Emax) 903.2475
(90%Emax) 1016.155

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

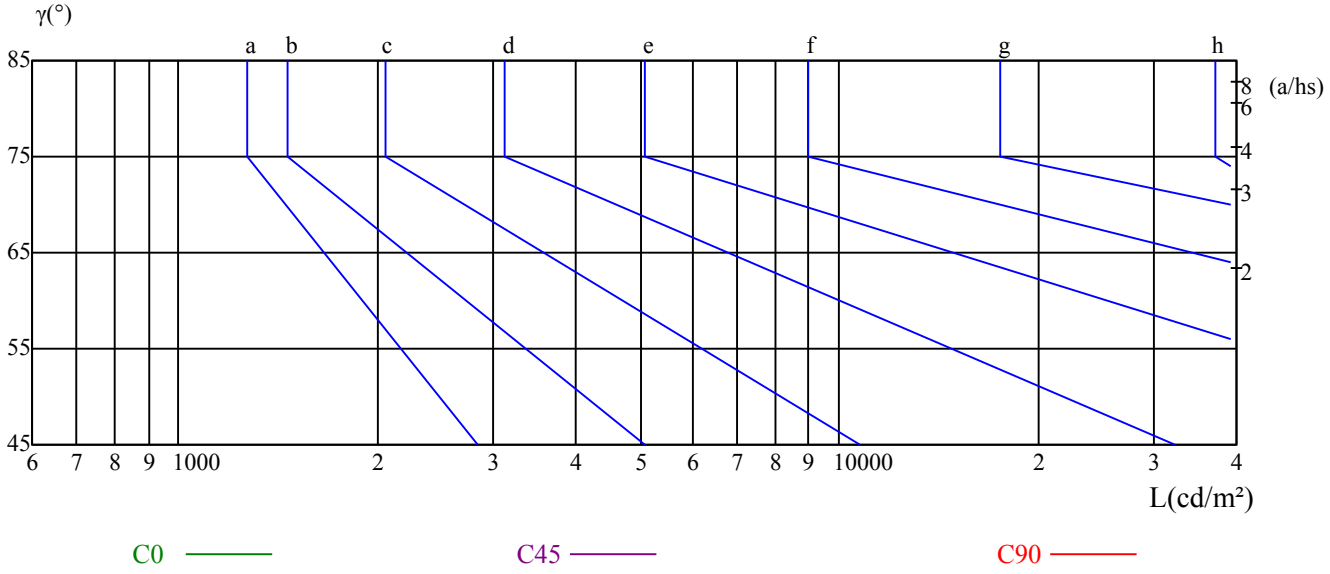
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

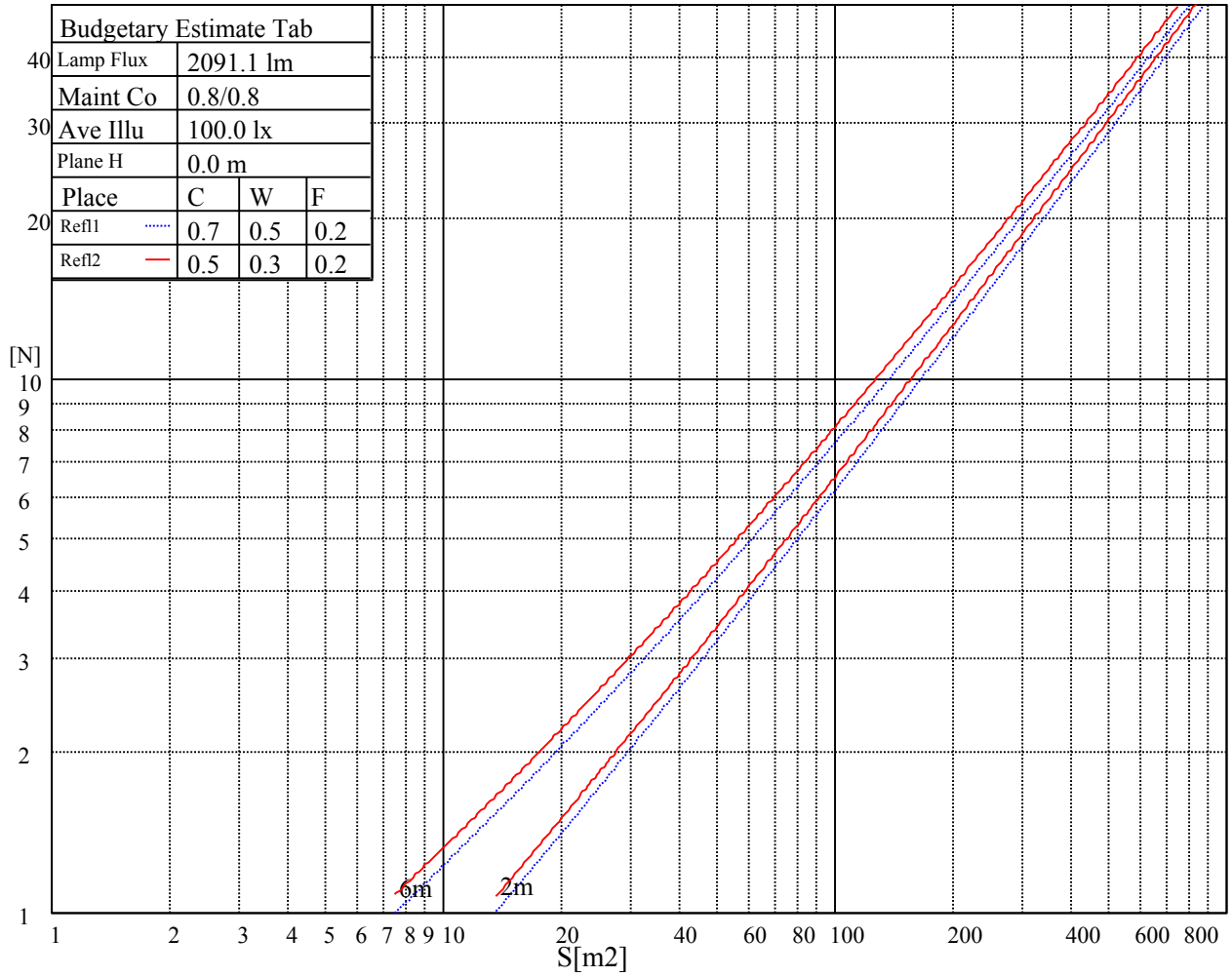


UGR Glare

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

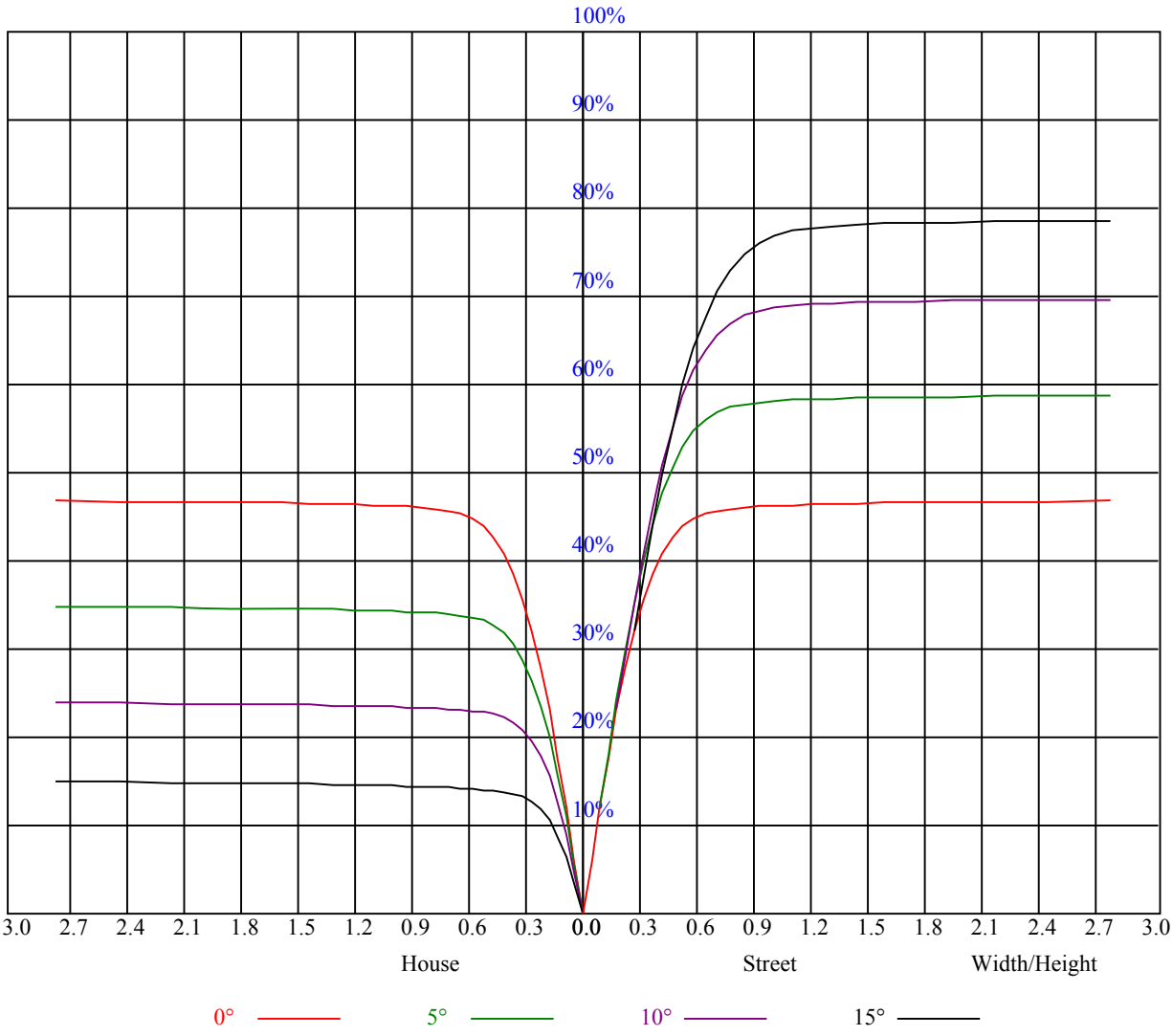


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.86	0.92	0.89	0.86	0.90	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.80
4	0.89	0.85	0.81	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.70
7	0.77	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.67
8	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
9	0.71	0.66	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.63	0.61
10	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.63	0.60	0.59

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	4489.68	4470.30	4433.21	4371.22	4279.33	4194.64	4112.72	4021.94	3919.53
45.0	4529.53	4515.14	4487.46	4457.57	4399.45	4333.58	4253.32	4145.93	4060.68
90.0	4515.14	4496.32	4463.11	4402.77	4341.33	4238.92	4160.32	4066.22	3952.75
135.0	4530.64	4511.26	4480.27	4453.14	4398.34	4297.60	4221.76	4105.52	4011.97
180.0	4489.68	4531.19	4516.24	4469.75	4432.66	4361.81	4267.71	4176.93	4084.49
225.0	4529.53	4490.78	4449.82	4375.65	4277.12	4196.30	4087.25	3972.67	3873.59
270.0	4515.14	4537.83	4500.19	4431.55	4386.72	4308.67	4225.08	4107.18	3999.80
315.0	4530.64	4488.01	4440.41	4412.18	4333.02	4257.74	4143.16	4053.49	3952.19
360.0	4489.68	4470.30	4433.21	4371.22	4279.33	4194.64	4112.72	4021.94	3919.53

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3787.24	3665.46	3534.83	3370.43	3229.27	3039.96	2870.03	2697.33	2477.02
45.0	3956.62	3854.77	3710.30	3589.07	3454.56	3283.52	3127.98	2954.72	2729.43
90.0	3848.13	3742.40	3585.20	3439.62	3286.84	3124.66	2901.03	2706.74	2524.62
135.0	3923.96	3823.22	3679.85	3556.97	3416.37	3266.36	3062.66	2884.42	2696.77
180.0	3978.21	3860.30	3759.56	3649.96	3486.11	3348.84	3204.36	3049.37	2836.82
225.0	3771.74	3667.12	3517.67	3387.03	3250.31	3079.27	2928.15	2775.37	2575.55
270.0	3892.41	3764.54	3654.39	3504.38	3367.66	3230.38	3076.50	2892.72	2736.63
315.0	3851.45	3718.60	3597.93	3434.64	3289.61	3145.69	2950.85	2795.30	2633.67
360.0	3787.24	3665.46	3534.83	3370.43	3229.27	3039.96	2870.03	2697.33	2477.02

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2294.90	2104.49	1917.39	1692.10	1524.94	1101.65	1101.65	1035.50	912.23
45.0	2539.01	2358.01	2118.33	1924.59	1740.26	1567.56	1369.39	1222.71	1088.75
90.0	2332.55	2086.22	1889.72	1707.60	1487.85	1091.13	1091.13	1030.02	919.37
135.0	2511.89	2273.87	2080.69	1847.09	1667.75	1503.90	1312.38	1170.67	1043.91
180.0	2665.77	2490.86	2259.48	2079.58	1850.97	1665.53	1495.60	1356.66	1177.32
225.0	2408.93	2236.78	2013.16	1835.47	1666.09	1465.71	1073.42	1073.42	1040.04
270.0	2586.06	2419.45	2208.00	2034.19	1867.02	1664.98	1503.90	1349.47	1181.74
315.0	2462.07	2237.34	2049.69	1868.13	1694.87	1495.05	1096.89	1096.89	1064.67
360.0	2294.90	2104.49	1917.39	1692.10	1524.94	1101.65	1101.65	1035.50	912.23

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	792.44	682.79	557.85	470.01	370.43	302.29	243.72	184.60	146.63
45.0	964.76	821.95	711.79	611.60	494.81	412.88	325.98	280.59	280.59
90.0	779.27	675.92	577.17	490.21	393.56	325.42	266.86	204.81	163.51
135.0	927.12	787.63	682.45	583.93	497.02	400.15	332.62	288.34	288.34
180.0	1046.13	926.01	806.45	669.72	567.32	473.22	391.85	306.05	291.10
225.0	881.28	763.38	651.24	547.45	433.20	354.71	288.28	220.69	176.97
270.0	1038.38	878.96	758.29	647.03	544.07	429.49	350.89	286.12	286.12
315.0	909.96	798.53	661.14	560.23	467.90	366.77	299.30	242.17	194.68
360.0	792.44	682.79	557.85	470.01	370.43	302.29	243.72	184.60	146.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	116.13	92.39	70.35	57.57	47.88	40.63	34.60	31.05	28.17
45.0	167.44	125.04	99.14	79.43	64.32	50.76	42.90	37.31	33.32
90.0	129.69	103.07	81.81	61.94	50.59	42.62	36.04	32.33	28.89
135.0	164.90	130.08	102.07	75.17	59.62	46.16	39.30	34.49	30.89
180.0	224.29	146.02	117.02	87.85	70.24	56.79	46.72	37.97	33.38
225.0	140.65	106.22	85.02	68.80	53.86	45.17	38.86	34.49	30.44
270.0	171.93	137.66	110.60	88.73	71.79	55.96	46.72	38.91	34.43
315.0	146.69	116.91	93.44	75.06	57.90	47.94	40.63	35.54	31.00
360.0	116.13	92.39	70.35	57.57	47.88	40.63	34.60	31.05	28.17

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	25.46	23.64	22.09	20.54	19.54	18.38	17.60	16.99	16.44
45.0	29.50	27.18	25.24	23.14	21.75	20.26	19.26	18.38	17.49
90.0	26.68	24.85	23.25	21.59	20.48	19.43	18.60	17.66	16.99
135.0	27.57	25.52	23.75	22.20	20.65	19.60	18.65	17.60	16.94
180.0	30.06	27.46	24.85	23.19	21.81	20.31	19.32	18.38	17.44
225.0	27.95	25.91	24.19	22.31	21.03	19.71	18.76	17.99	17.10
270.0	31.05	27.84	25.79	24.02	22.53	20.92	19.87	18.88	17.88
315.0	28.29	25.63	23.80	21.92	20.65	19.60	18.60	17.60	16.94
360.0	25.46	23.64	22.09	20.54	19.54	18.38	17.60	16.99	16.44

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.78	15.39	15.00	14.67	14.28	13.95	13.67	13.34	13.12
45.0	16.94	16.38	15.89	15.33	15.00	14.67	14.34	13.95	13.67
90.0	16.38	15.78	15.39	15.00	14.56	14.23	14.00	13.62	13.34
135.0	16.38	15.72	15.22	14.83	14.39	14.06	13.78	13.45	13.23
180.0	16.77	16.11	15.55	15.11	14.72	14.28	14.00	13.67	13.45
225.0	16.50	15.94	15.44	15.00	14.67	14.34	14.00	13.67	13.45
270.0	17.16	16.61	16.05	15.50	15.11	14.72	14.34	14.06	13.73
315.0	16.33	15.83	15.33	14.95	14.56	14.23	13.89	13.62	13.28
360.0	15.78	15.39	15.00	14.67	14.28	13.95	13.67	13.34	13.12

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	12.90	12.62	12.40	12.18	11.96	11.73	11.51	11.29	11.07
45.0	13.40	13.12	12.90	12.68	12.40	12.18	11.96	11.68	11.40
90.0	13.17	12.95	12.62	12.40	12.18	12.01	11.68	11.51	11.29
135.0	13.01	12.73	12.51	12.29	12.07	11.90	11.68	11.46	11.18
180.0	13.12	12.90	12.68	12.51	12.23	12.01	11.85	11.62	11.40
225.0	13.17	12.90	12.68	12.45	12.18	12.01	11.73	11.51	11.35
270.0	13.45	13.23	13.01	12.73	12.45	12.23	12.01	11.79	11.57
315.0	13.06	12.84	12.57	12.34	12.12	11.90	11.62	11.40	11.24
360.0	12.90	12.62	12.40	12.18	11.96	11.73	11.51	11.29	11.07

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.90	10.68	10.63	10.41	10.24	10.02	9.85	9.69	9.47
45.0	11.24	11.07	10.79	10.63	10.52	10.35	10.13	9.91	9.80
90.0	11.07	10.90	10.74	10.52	10.35	10.07	9.91	9.74	9.52
135.0	11.02	10.85	10.63	10.57	10.41	10.19	9.96	9.80	9.63
180.0	11.18	11.02	10.85	10.57	10.52	10.35	10.19	9.96	9.80
225.0	11.13	10.96	10.74	10.63	10.46	10.24	10.02	9.91	9.63
270.0	11.35	11.13	10.96	10.79	10.63	10.46	10.24	10.02	9.85
315.0	11.07	10.85	10.68	10.52	10.35	10.19	9.96	9.80	9.63
360.0	10.90	10.68	10.63	10.41	10.24	10.02	9.85	9.69	9.47

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.30	9.13	8.97	8.80	8.64	8.52	8.41	8.30	8.30
45.0	9.52	9.30	9.13	8.97	8.75	8.64	8.47	8.36	8.30
90.0	9.30	9.13	8.97	8.80	8.64	8.52	8.41	8.30	8.25
135.0	9.41	9.24	9.08	8.86	8.75	8.58	8.47	8.36	8.25
180.0	9.58	9.41	9.24	9.02	8.86	8.75	8.58	8.47	8.30
225.0	9.47	9.30	9.08	8.97	8.80	8.69	8.47	8.41	8.36
270.0	9.63	9.47	9.30	9.13	8.91	8.75	8.64	8.47	8.30
315.0	9.41	9.24	9.08	8.91	8.75	8.58	8.52	8.36	8.25
360.0	9.30	9.13	8.97	8.80	8.64	8.52	8.41	8.30	8.30

Intensity data(cd)

C/γ(°)	90.0
0.0	8.25
45.0	8.25
90.0	8.25
135.0	8.25
180.0	8.30
225.0	8.25
270.0	8.19
315.0	8.25
360.0	8.25