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NATA

LumCAT: 2-2642-L
Luminaire: 92.70.412.00
LampCAT: BRIDGELUX V13B LES13
Ballast type: AC

Report No: 20231009-B010	Voltage(V): 34.1800
Test No: 20231009-C010	Current(A): 0.4500
Number of Lamps: 1	Power (W): 15.4150
Lamp flux(lm): 2091.1	PF: 0.0000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1949.95, Efficiency(%): 93.25% , Luminous Efficacy(lm/W): 126.50
Central intensity(cd): 3225.675, Maximum intensity(cd): 3225.675
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=46.4
[C90/270]Total=46.4
Field angle(10%Imax): [C0/180]Total=70.6
[C90/270]Total=70.6
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(%): 93.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.926%

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

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3225.676	0.000	0	0.00%	0.00%
1.0	3223.669	3.086	3.086	0.15%	0.16%
2.0	3217.649	9.245	12.331	0.44%	0.63%
3.0	3204.434	15.360	27.691	0.73%	1.42%
4.0	3178.833	21.367	49.057	1.02%	2.52%
5.0	3142.645	27.195	76.252	1.30%	3.91%
6.0	3100.023	32.807	109.059	1.57%	5.59%
7.0	3042.455	38.126	147.185	1.82%	7.55%
8.0	2980.390	43.104	190.29	2.06%	9.76%
9.0	2909.191	47.732	238.021	2.28%	12.21%
10.0	2834.810	51.981	290.003	2.49%	14.87%
11.0	2749.289	55.797	345.799	2.67%	17.73%
12.0	2667.919	59.218	405.017	2.83%	20.77%
13.0	2580.806	62.289	467.306	2.98%	23.97%
14.0	2495.077	64.971	532.277	3.11%	27.30%
15.0	2407.134	67.300	599.577	3.22%	30.75%
16.0	2312.895	69.162	668.738	3.31%	34.30%
17.0	2227.166	70.701	739.439	3.38%	37.92%
18.0	2134.241	71.910	811.349	3.44%	41.61%
19.0	2038.203	72.592	883.941	3.47%	45.33%
20.0	1937.321	72.763	956.705	3.48%	49.06%
21.0	1837.407	72.482	1029.187	3.47%	52.78%
22.0	1735.142	71.792	1100.979	3.43%	56.46%
23.0	1629.693	70.603	1171.582	3.38%	60.08%
24.0	1528.742	69.055	1240.637	3.30%	63.62%
25.0	1438.792	67.475	1308.112	3.23%	67.08%
26.0	1303.294	64.727	1372.839	3.10%	70.40%
27.0	1198.627	61.210	1434.049	2.93%	73.54%
28.0	1126.937	58.878	1492.928	2.82%	76.56%
29.0	1012.722	55.980	1548.907	2.68%	79.43%
30.0	899.669	51.634	1600.541	2.47%	82.08%
31.0	774.314	46.585	1647.126	2.23%	84.47%
32.0	657.663	41.024	1688.15	1.96%	86.57%
33.0	542.590	35.360	1723.51	1.69%	88.39%
34.0	441.390	29.778	1753.288	1.42%	89.91%
35.0	345.815	24.448	1777.736	1.17%	91.17%
36.0	264.998	19.448	1797.184	0.93%	92.17%
37.0	228.327	16.090	1813.274	0.77%	92.99%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	161.750	13.020	1826.294	0.62%	93.66%
39.0	112.015	9.344	1835.639	0.45%	94.14%
40.0	93.555	7.170	1842.808	0.34%	94.51%
41.0	81.972	6.250	1849.058	0.30%	94.83%
42.0	72.942	5.628	1854.687	0.27%	95.11%
43.0	65.310	5.121	1859.808	0.24%	95.38%
44.0	58.696	4.680	1864.488	0.22%	95.62%
45.0	52.918	4.289	1868.778	0.21%	95.84%
46.0	48.123	3.951	1872.729	0.19%	96.04%
47.0	44.048	3.666	1876.395	0.18%	96.23%
48.0	40.173	3.405	1879.8	0.16%	96.40%
49.0	36.983	3.168	1882.968	0.15%	96.57%
50.0	34.333	2.973	1885.942	0.14%	96.72%
51.0	32.091	2.810	1888.752	0.13%	96.86%
52.0	30.244	2.675	1891.427	0.13%	97.00%
53.0	28.528	2.557	1893.983	0.12%	97.13%
54.0	27.130	2.453	1896.437	0.12%	97.26%
55.0	25.788	2.362	1898.799	0.11%	97.38%
56.0	24.639	2.279	1901.077	0.11%	97.49%
57.0	23.581	2.205	1903.282	0.11%	97.61%
58.0	22.633	2.137	1905.419	0.10%	97.72%
59.0	21.706	2.073	1907.492	0.10%	97.82%
60.0	20.882	2.012	1909.504	0.10%	97.93%
61.0	20.114	1.956	1911.46	0.09%	98.03%
62.0	19.374	1.903	1913.363	0.09%	98.12%
63.0	18.710	1.852	1915.215	0.09%	98.22%
64.0	18.066	1.805	1917.02	0.09%	98.31%
65.0	17.436	1.757	1918.777	0.08%	98.40%
66.0	16.869	1.712	1920.489	0.08%	98.49%
67.0	16.336	1.670	1922.158	0.08%	98.57%
68.0	15.797	1.628	1923.786	0.08%	98.66%
69.0	15.291	1.586	1925.372	0.08%	98.74%
70.0	14.793	1.545	1926.917	0.07%	98.82%
71.0	14.316	1.505	1928.422	0.07%	98.90%
72.0	13.859	1.465	1929.887	0.07%	98.97%
73.0	13.389	1.425	1931.311	0.07%	99.04%
74.0	12.939	1.384	1932.696	0.07%	99.12%
75.0	12.531	1.346	1934.041	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.088	1.307	1935.348	0.06%	99.25%
77.0	11.687	1.268	1936.616	0.06%	99.32%
78.0	11.271	1.229	1937.845	0.06%	99.38%
79.0	10.842	1.188	1939.033	0.06%	99.44%
80.0	10.469	1.149	1940.182	0.05%	99.50%
81.0	10.067	1.111	1941.292	0.05%	99.56%
82.0	9.701	1.072	1942.364	0.05%	99.61%
83.0	9.382	1.037	1943.402	0.05%	99.66%
84.0	9.106	1.007	1944.409	0.05%	99.72%
85.0	8.843	0.980	1945.388	0.05%	99.77%
86.0	8.614	0.954	1946.343	0.05%	99.82%
87.0	8.393	0.931	1947.273	0.04%	99.86%
88.0	8.206	0.909	1948.183	0.04%	99.91%
89.0	8.012	0.889	1949.072	0.04%	99.96%
90.0	7.922	0.874	1949.945	0.04%	100.00%

Zonal flux distribution table

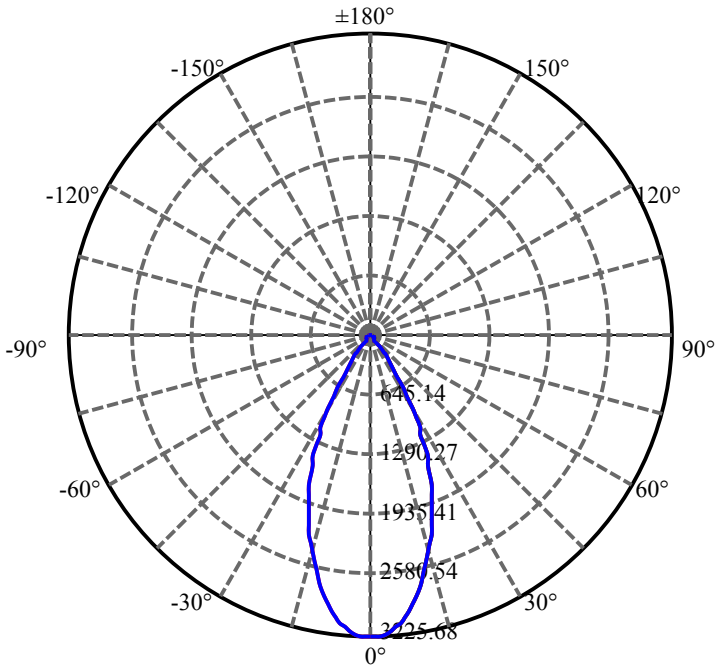
ZONAL LUMEN SUMMARY

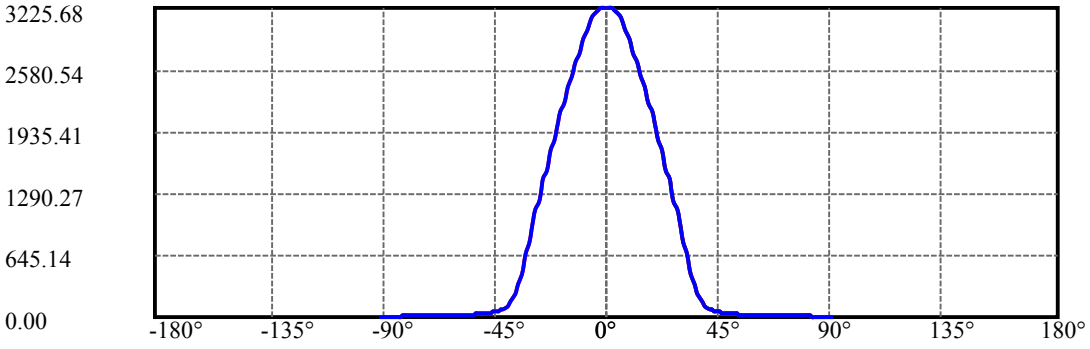
Zone	Lumens	%Lamp	%Fixt
0-30	1600.54	76.54%	82.08%
0-40	1842.81	88.12%	94.51%
0-60	1909.50	91.31%	97.93%
0-90	1949.07	93.21%	99.96%
0-120	1949.07	93.21%	99.96%
0-180	1949.95	93.25%	100.00%
60-90	39.57	1.89%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.21	1559.96	74.60%	80.00%

ZONAL LUMEN SUMMARY

0-10	290.00
10-20	666.70
20-30	643.84
30-40	242.27
40-50	43.13
50-60	23.56
60-70	17.41
70-80	13.26
80-90	8.89
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):

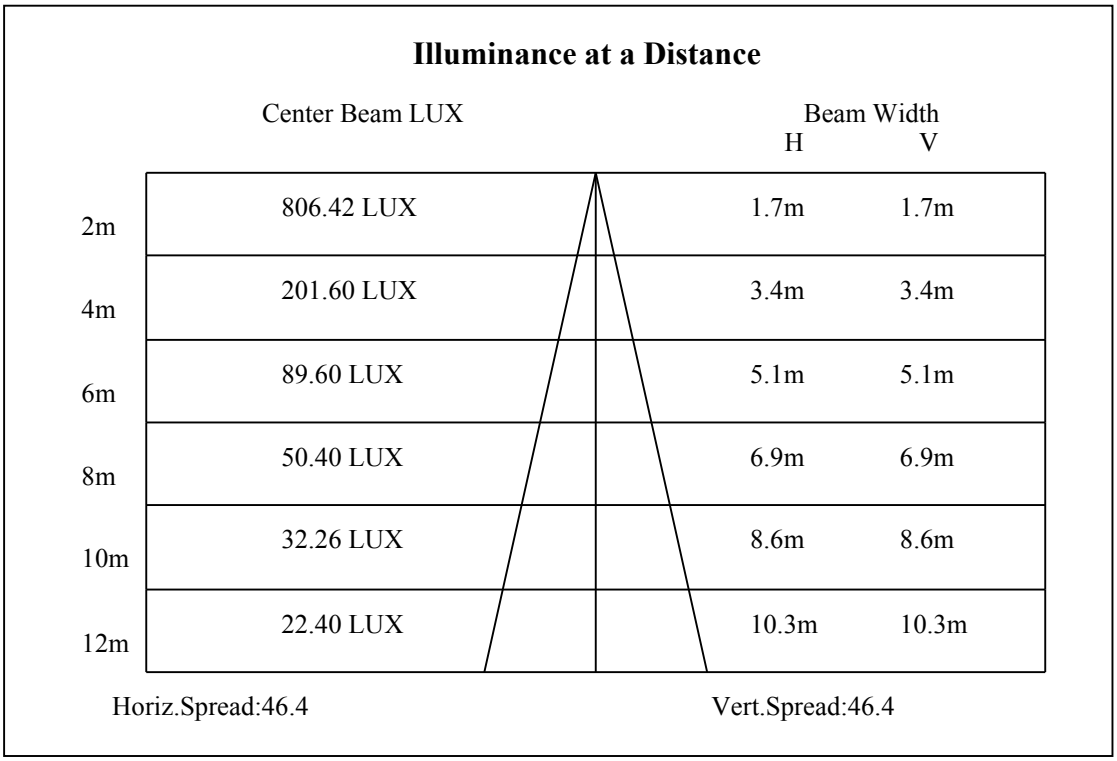
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:35.3 Right:35.3
:C90/270Left:35.3 Right:35.3

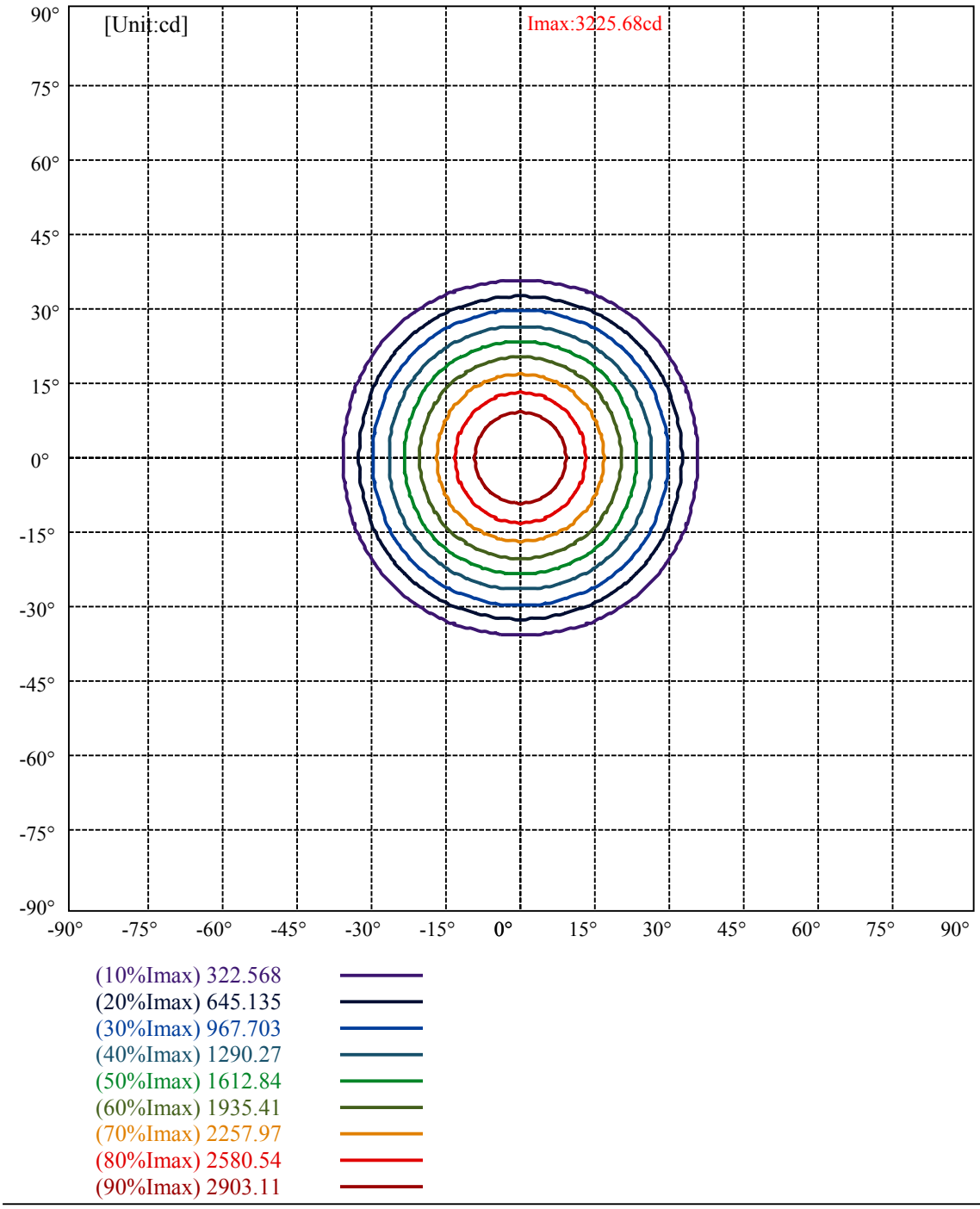
Beam Angle(50%Imax):C0/180Left:23.2 Right:23.2
:C90/270Left:23.2 Right:23.2

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)

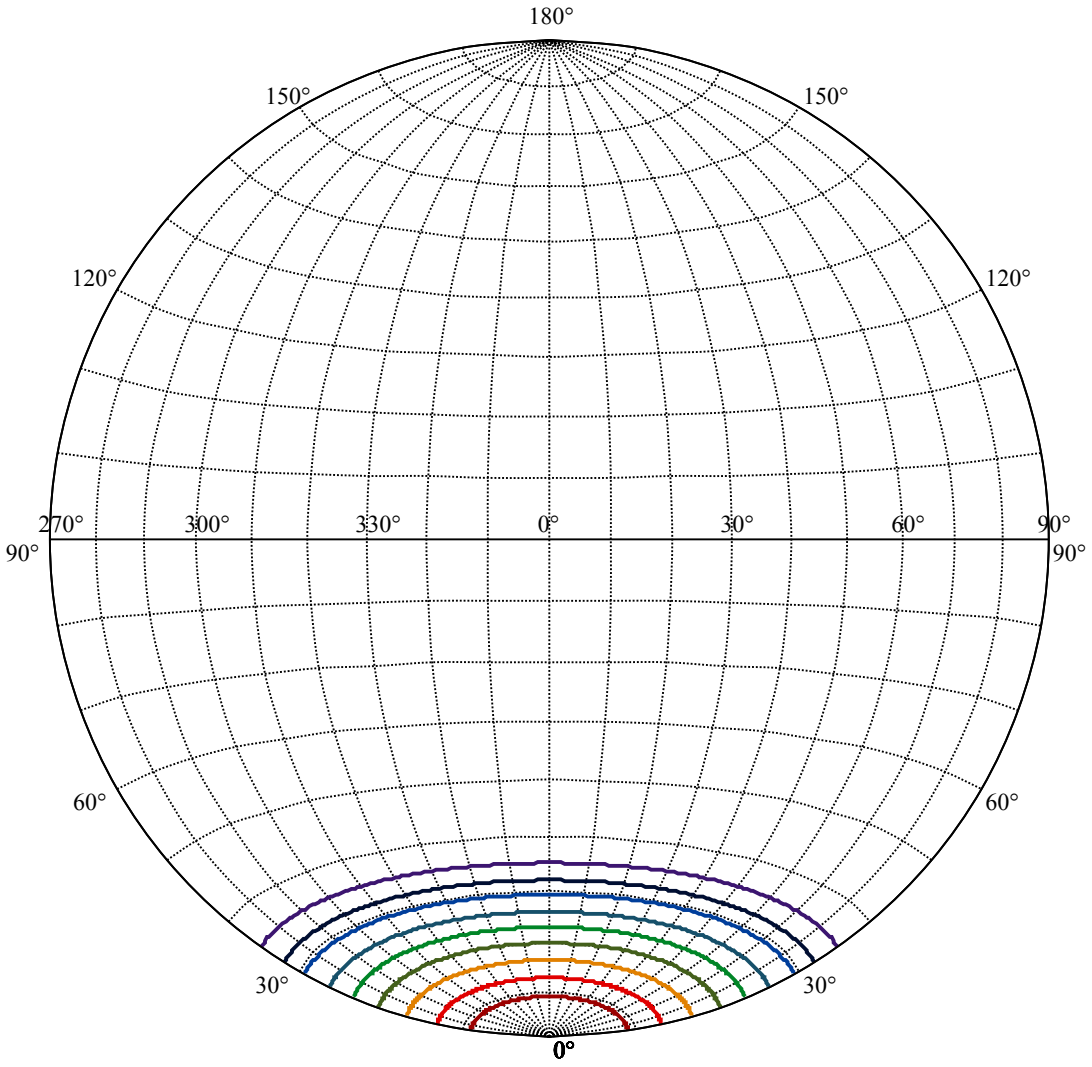


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



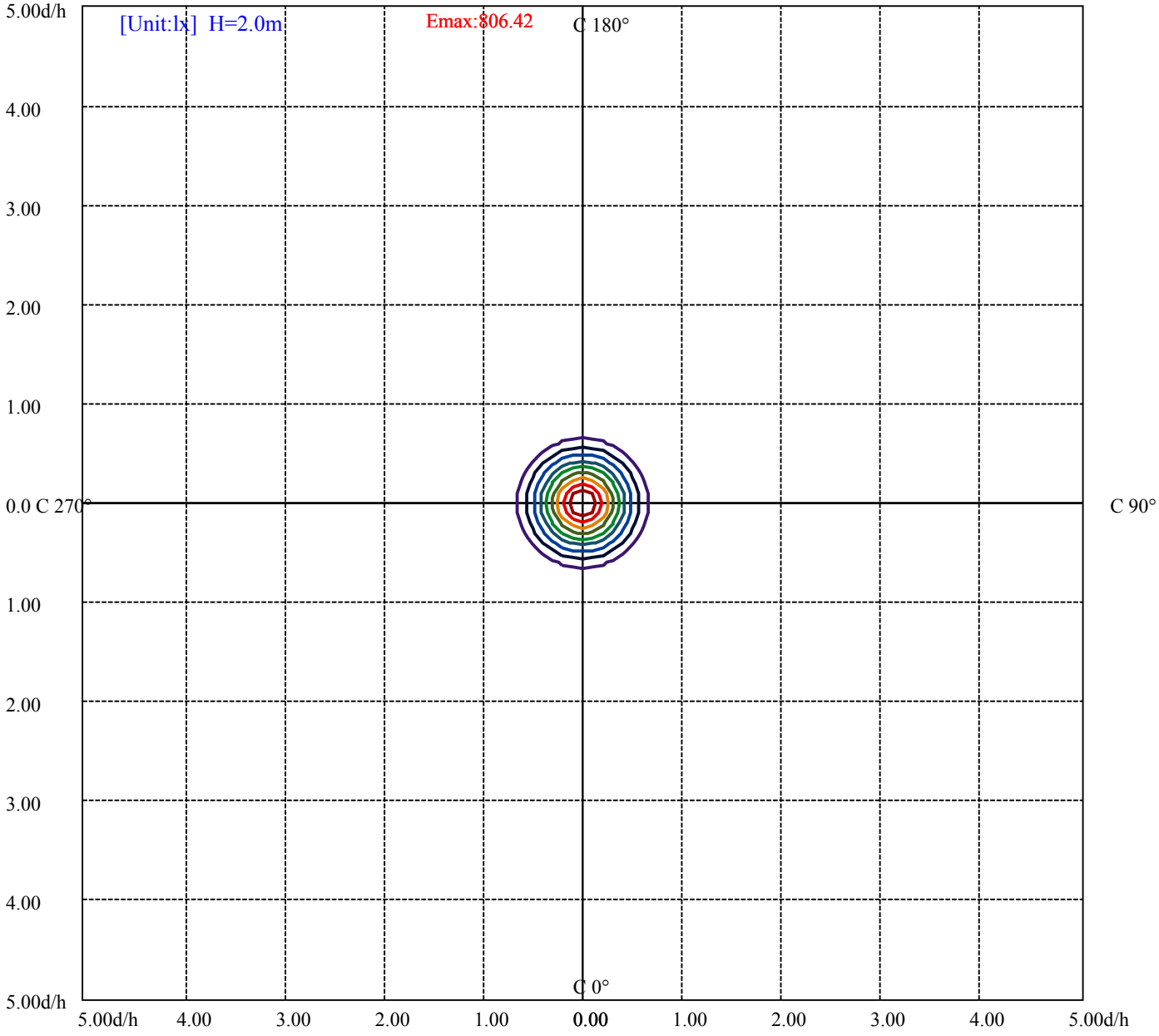
House [Unit:cd] Road

Imax:3225.68

(10%Imax) 322.568
(20%Imax) 645.135
(30%Imax) 967.703
(40%Imax) 1290.27
(50%Imax) 1612.84
(60%Imax) 1935.41
(70%Imax) 2257.97
(80%Imax) 2580.54
(90%Imax) 2903.11

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

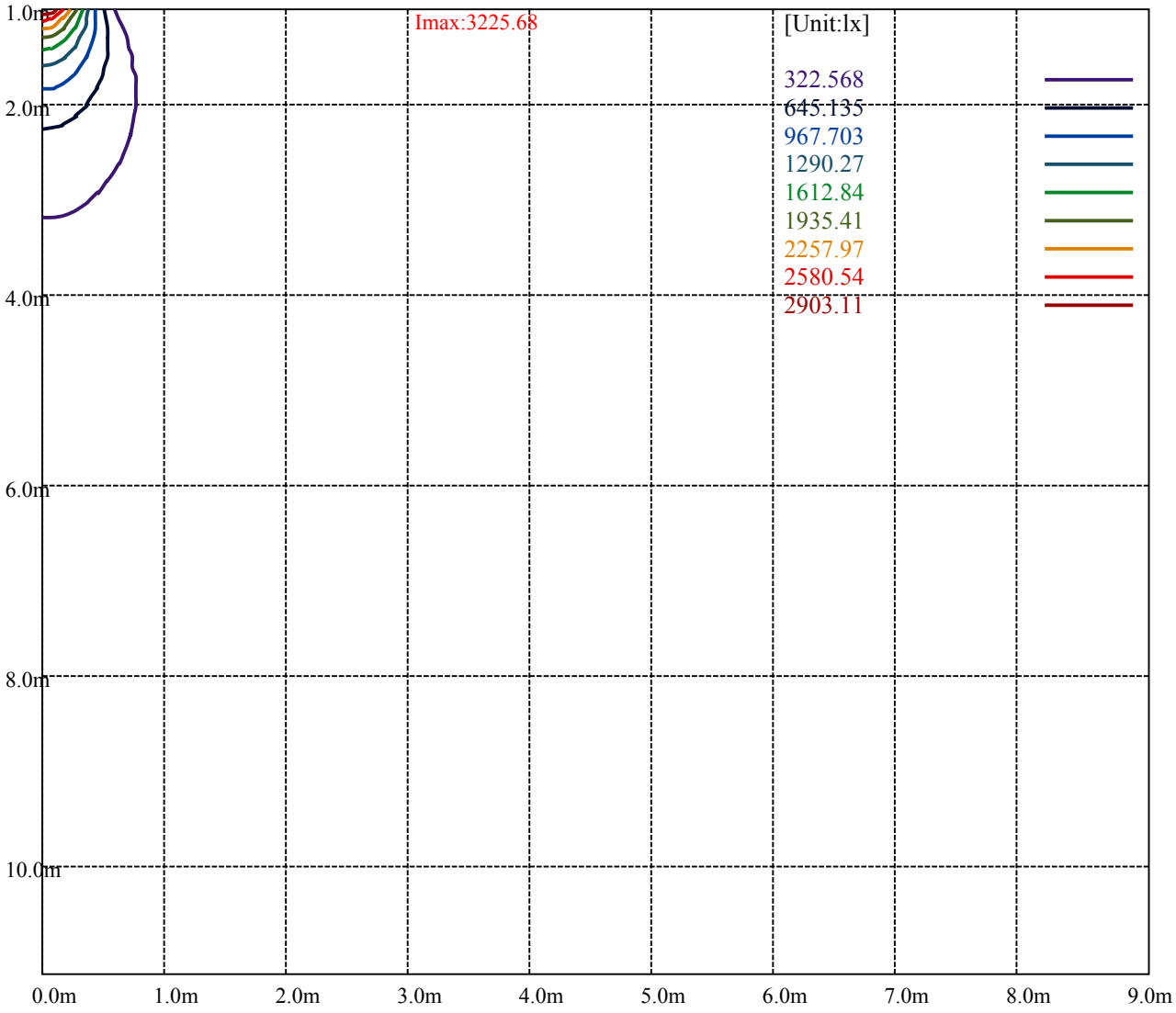
ISO illuminance diagram



(10%Emax) 80.642
(20%Emax) 161.2838
(30%Emax) 241.9258
(40%Emax) 322.5675
(50%Emax) 403.21
(60%Emax) 483.8525
(70%Emax) 564.4925
(80%Emax) 645.135
(90%Emax) 725.7775

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

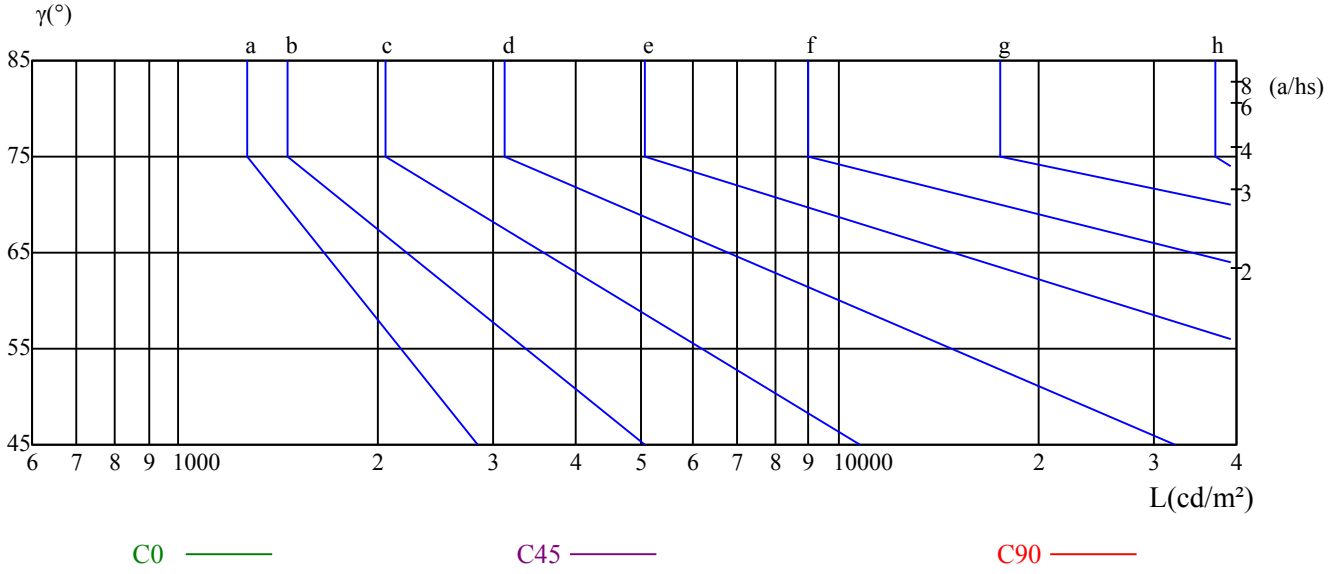
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

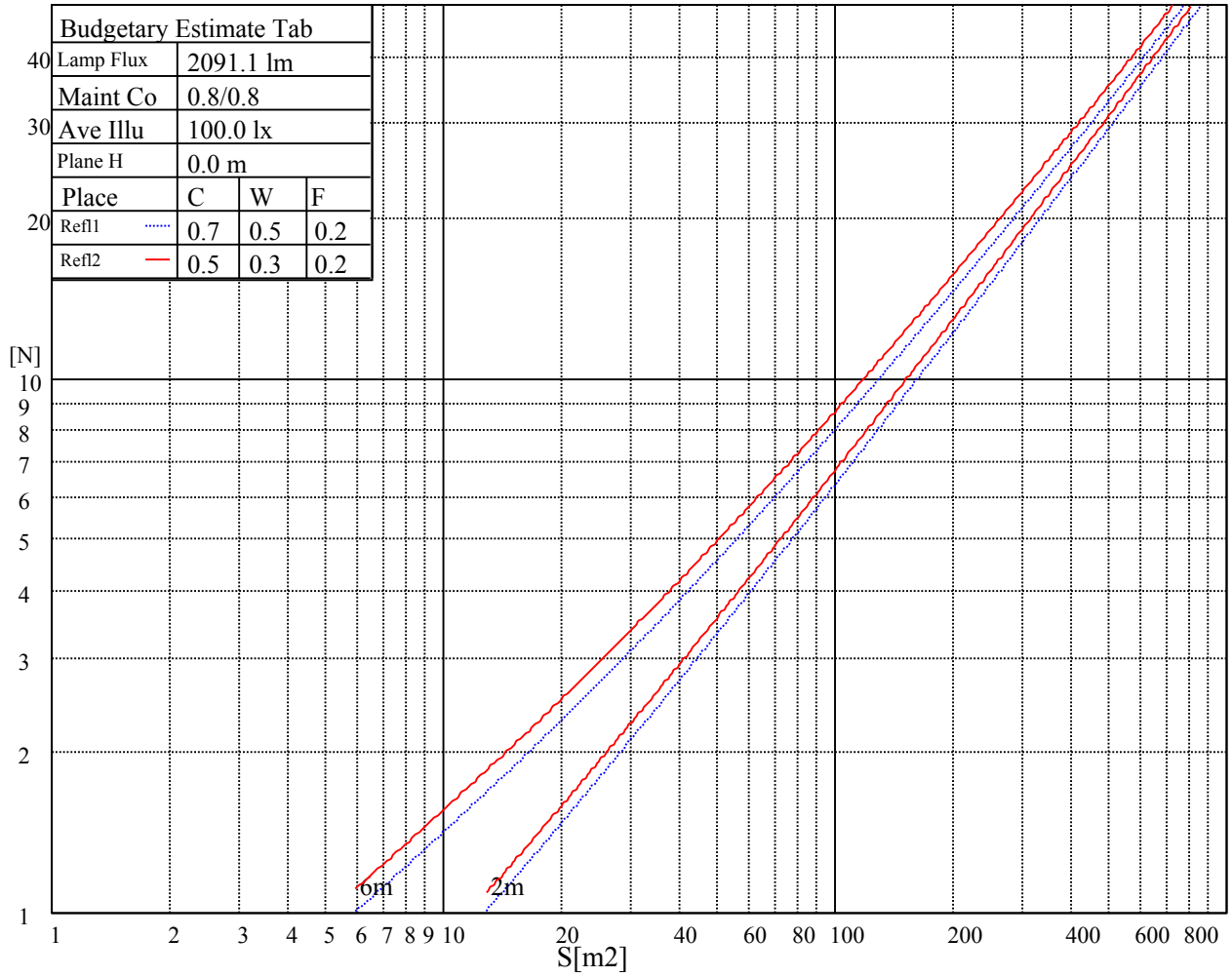


UGR Glare

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

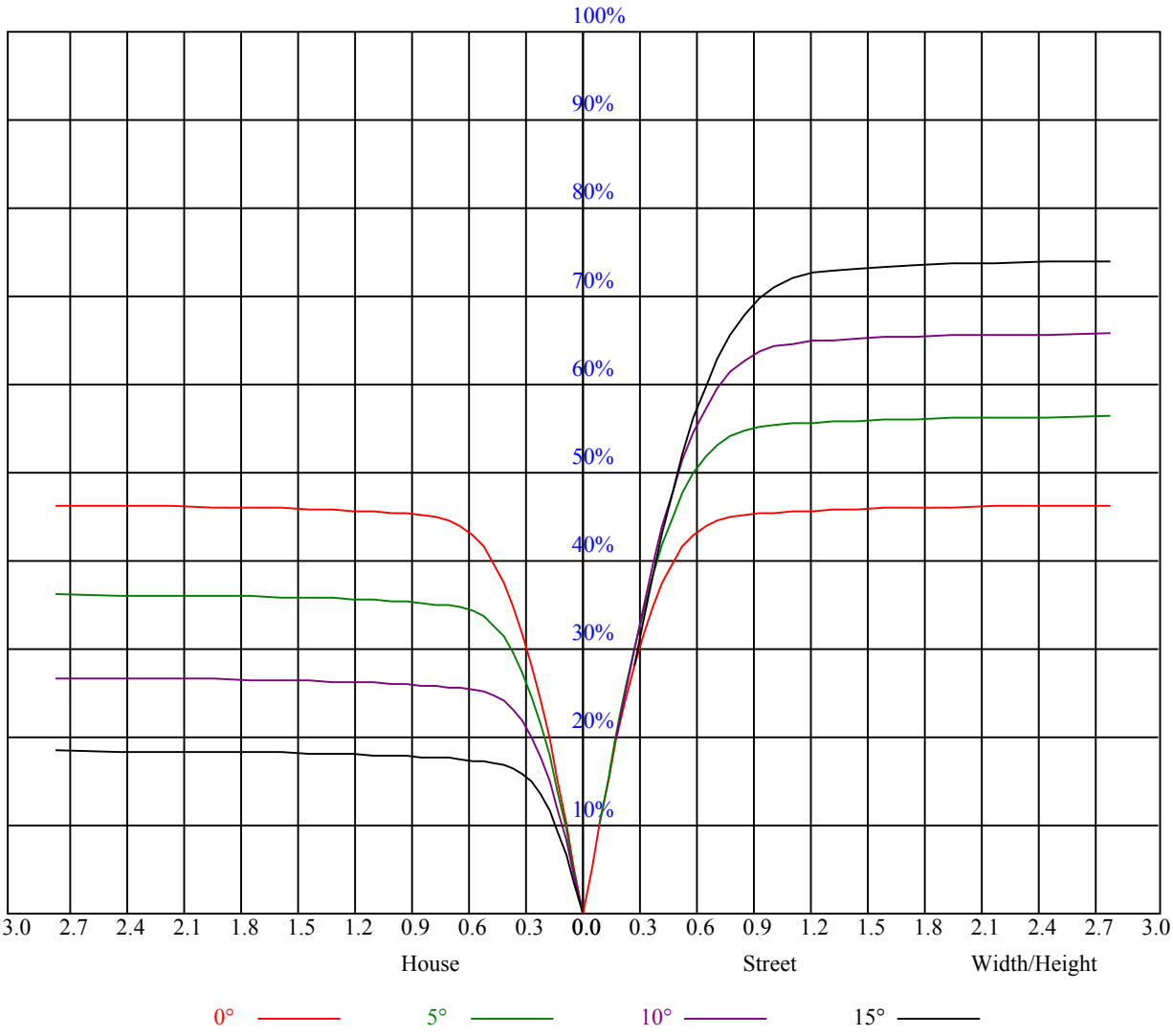


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.11	1.11	1.11	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.03	1.01	0.99	1.01	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.87
2	0.97	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.87	0.85	0.84	0.82
3	0.91	0.86	0.83	0.90	0.86	0.82	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	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.69
6	0.77	0.71	0.68	0.76	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	0.73	0.67	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.62
8	0.69	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.58
9	0.66	0.61	0.57	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56
10	0.63	0.58	0.55	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53

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	3232.04	3230.38	3228.72	3213.22	3180.01	3127.98	3078.16	3031.11	2963.58
45.0	3230.93	3230.93	3233.15	3227.61	3215.44	3184.99	3147.35	3084.25	3038.30
90.0	3222.63	3222.08	3206.03	3184.99	3151.23	3108.05	3064.32	3007.31	2925.38
135.0	3217.10	3214.88	3206.58	3189.97	3149.01	3116.35	3076.50	3006.75	2946.97
180.0	3232.04	3228.72	3220.97	3208.24	3198.28	3154.55	3115.80	3064.87	2998.45
225.0	3230.93	3218.20	3203.81	3191.08	3147.90	3108.60	3053.25	2992.36	2929.81
270.0	3222.63	3225.40	3222.08	3205.47	3192.74	3177.24	3138.49	3085.91	3033.32
315.0	3217.10	3218.76	3219.86	3214.88	3196.06	3163.40	3126.32	3067.09	3007.31
360.0	3232.04	3230.38	3228.72	3213.22	3180.01	3127.98	3078.16	3031.11	2963.58

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2875.01	2795.85	2705.63	2617.06	2510.78	2427.20	2313.73	2225.16	2136.04
45.0	2967.45	2901.58	2805.82	2725.00	2643.63	2535.14	2454.32	2349.15	2258.93
90.0	2856.74	2778.14	2682.93	2607.65	2530.16	2429.41	2351.37	2267.78	2184.75
135.0	2883.31	2814.68	2724.45	2645.29	2575.55	2498.05	2400.63	2319.81	2240.10
180.0	2935.35	2866.15	2791.43	2717.81	2623.71	2553.41	2477.02	2379.60	2313.17
225.0	2862.83	2768.18	2693.45	2615.96	2540.12	2467.05	2368.53	2288.26	2184.20
270.0	2949.74	2883.87	2818.00	2725.56	2639.76	2561.16	2483.66	2374.61	2287.71
315.0	2943.10	2870.03	2772.61	2689.02	2582.74	2489.20	2407.83	2298.78	2212.43
360.0	2875.01	2795.85	2705.63	2617.06	2510.78	2427.20	2313.73	2225.16	2136.04

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2017.03	1924.59	1827.17	1728.08	1607.41	1513.87	1425.30	1342.82	1091.41
45.0	2170.36	2081.24	1967.21	1872.56	1774.03	1674.39	1553.17	1461.83	1376.59
90.0	2074.60	1983.82	1886.40	1783.44	1656.12	1558.15	1464.05	1356.66	1089.25
135.0	2144.34	2055.22	1968.87	1850.97	1752.44	1653.36	1534.35	1443.01	1353.89
180.0	2238.44	2138.25	2052.46	1946.18	1852.63	1748.01	1646.71	1560.36	1442.46
225.0	2097.85	2004.30	1890.82	1798.38	1702.62	1585.27	1495.05	1410.35	1324.00
270.0	2207.45	2113.90	1997.10	1904.11	1816.65	1701.51	1604.09	1511.65	1409.25
315.0	2123.86	2004.30	1908.54	1815.54	1719.23	1602.98	1507.22	1423.64	1339.50
360.0	2017.03	1924.59	1827.17	1728.08	1607.41	1513.87	1425.30	1342.82	1091.41

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1091.41	1011.25	877.13	767.75	633.25	531.95	435.80	327.20	250.81
45.0	1291.34	1169.57	1068.27	964.76	828.59	716.22	579.50	478.75	384.65
90.0	1089.25	1035.39	928.17	819.34	679.85	574.63	477.04	385.87	283.80
135.0	1259.79	1129.16	1021.22	913.28	804.79	670.83	570.09	478.75	369.71
180.0	1347.80	1256.47	1119.75	1012.36	895.57	781.54	642.05	540.20	424.51
225.0	1098.38	1098.38	986.46	873.59	730.22	618.91	512.69	393.56	309.21
270.0	1323.45	1227.69	1092.62	980.81	868.44	748.33	605.51	502.00	405.13
315.0	1087.59	1087.59	1008.16	865.45	753.81	618.91	518.05	424.78	338.71
360.0	1091.41	1011.25	877.13	767.75	633.25	531.95	435.80	327.20	250.81

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	188.31	140.16	110.60	92.33	81.76	73.01	65.93	58.34	53.14
45.0	299.41	299.41	150.01	114.80	92.99	82.31	73.34	66.15	60.00
90.0	215.77	162.63	124.32	100.30	87.96	75.72	68.20	61.72	54.91
135.0	291.66	291.66	150.29	117.90	100.91	86.02	76.55	68.92	62.33
180.0	341.48	285.02	285.02	139.10	109.16	93.82	80.65	71.96	64.87
225.0	220.64	165.84	125.15	97.59	86.07	76.94	68.92	62.38	55.35
270.0	317.12	297.19	210.18	123.66	97.09	86.02	76.78	67.14	60.83
315.0	245.60	184.71	138.44	110.43	92.50	81.92	73.18	65.87	58.12
360.0	188.31	140.16	110.60	92.33	81.76	73.01	65.93	58.34	53.14

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	47.44	43.51	39.85	36.20	33.77	31.72	29.67	28.12	26.85
45.0	53.64	49.04	44.95	40.41	37.14	33.99	31.94	30.28	28.40
90.0	50.26	46.11	41.46	38.36	35.76	33.65	31.33	29.72	28.29
135.0	55.63	50.93	46.77	42.07	38.86	36.15	33.88	31.50	29.89
180.0	58.79	52.42	48.10	44.28	40.74	36.98	34.49	31.94	30.11
225.0	50.59	46.33	42.68	38.64	35.92	33.60	31.16	29.61	27.84
270.0	53.97	49.32	45.17	41.63	37.53	34.87	32.60	30.83	28.84
315.0	53.03	47.33	43.40	39.80	36.15	33.71	31.66	29.95	28.01
360.0	47.44	43.51	39.85	36.20	33.77	31.72	29.67	28.12	26.85

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.63	24.24	23.30	22.42	21.59	20.65	19.98	19.32	18.54
45.0	27.07	25.91	24.85	23.80	22.69	21.81	21.09	20.15	19.43
90.0	27.01	25.57	24.47	23.53	22.47	21.59	20.65	19.98	19.26
135.0	28.01	26.68	25.52	24.19	23.19	22.25	21.42	20.43	19.65
180.0	28.62	26.85	25.63	24.52	23.58	22.42	21.59	20.81	20.09
225.0	26.51	25.41	24.13	23.25	22.36	21.59	20.70	19.98	19.32
270.0	27.46	26.13	24.80	23.75	22.86	21.81	21.09	20.37	19.54
315.0	26.74	25.52	24.41	23.19	22.31	21.53	20.54	19.87	19.15
360.0	25.63	24.24	23.30	22.42	21.59	20.65	19.98	19.32	18.54

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.93	17.38	16.77	16.27	15.67	15.17	14.67	14.23	13.78
45.0	18.88	18.16	17.55	16.88	16.38	15.89	15.39	14.83	14.34
90.0	18.65	17.88	17.33	16.77	16.27	15.61	15.11	14.67	14.17
135.0	19.04	18.38	17.60	17.05	16.55	15.94	15.44	14.83	14.34
180.0	19.26	18.60	18.05	17.38	16.83	16.22	15.72	15.28	14.78
225.0	18.65	17.99	17.38	16.88	16.27	15.78	15.22	14.78	14.28
270.0	18.88	18.32	17.71	17.10	16.61	16.11	15.67	15.11	14.61
315.0	18.38	17.82	17.10	16.61	16.11	15.67	15.11	14.61	14.23
360.0	17.93	17.38	16.77	16.27	15.67	15.17	14.67	14.23	13.78

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.28	12.90	12.45	12.12	11.62	11.29	10.85	10.46	10.07
45.0	13.89	13.45	12.95	12.57	12.18	11.73	11.35	10.96	10.52
90.0	13.62	13.23	12.68	12.29	11.90	11.40	11.02	10.63	10.24
135.0	13.89	13.45	12.95	12.57	12.12	11.79	11.29	10.90	10.57
180.0	14.28	13.78	13.40	12.95	12.45	12.07	11.62	11.18	10.79
225.0	13.89	13.34	12.95	12.51	12.01	11.62	11.24	10.79	10.46
270.0	14.23	13.67	13.28	12.79	12.34	11.96	11.57	11.07	10.74
315.0	13.78	13.28	12.84	12.45	12.07	11.62	11.24	10.74	10.35
360.0	13.28	12.90	12.45	12.12	11.62	11.29	10.85	10.46	10.07

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.69	9.41	9.13	8.91	8.69	8.41	8.19	8.03	7.92
45.0	10.13	9.74	9.41	9.13	8.86	8.64	8.41	8.25	7.97
90.0	9.80	9.47	9.19	8.91	8.69	8.47	8.25	8.03	7.97
135.0	10.07	9.63	9.35	9.08	8.80	8.58	8.41	8.19	7.97
180.0	10.46	10.02	9.69	9.30	9.02	8.75	8.52	8.30	8.14
225.0	10.07	9.69	9.35	9.13	8.86	8.64	8.41	8.25	7.97
270.0	10.35	9.96	9.63	9.24	8.97	8.80	8.52	8.36	8.14
315.0	9.96	9.69	9.30	9.13	8.86	8.64	8.41	8.25	8.03
360.0	9.69	9.41	9.13	8.91	8.69	8.41	8.19	8.03	7.92

Intensity data(cd)

C/γ(°)	90.0
0.0	7.92
45.0	7.92
90.0	7.92
135.0	7.92
180.0	7.92
225.0	7.97
270.0	7.92
315.0	7.92
360.0	7.92