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NATA

Client:
LumCAT: 2-2644-L
Luminaire: 92.70.412.00
Report No: 20231009-B003
Ballast type: AC

Test No: 20231009-C003	Voltage(V): 34.200
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
Lamp flux(lm): 2091.1	Power (W): 15.424
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1909.42, Efficiency(%): 91.31% , Luminous Efficacy(lm/W): 123.80
Central intensity(cd): 6825.735, Maximum intensity(cd): 6825.735
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.8
[C90/270]Total=24.8
Field angle(10%Imax): [C0/180]Total=55.4
[C90/270]Total=55.4
Maximum s/h(1/2): C0_180=0.42 C90_270=0.42
Maximum s/h(1/4): C0_180=0.46 C90_270=0.46
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.31%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.118%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6825.735	0.000	0	0.00%	0.00%
1.0	6795.983	6.518	6.518	0.31%	0.34%
2.0	6684.307	19.348	25.866	0.93%	1.35%
3.0	6514.787	31.568	57.434	1.51%	3.01%
4.0	6280.087	42.829	100.262	2.05%	5.25%
5.0	6028.090	52.949	153.211	2.53%	8.02%
6.0	5744.126	61.866	215.078	2.96%	11.26%
7.0	5397.128	69.154	284.231	3.31%	14.89%
8.0	5043.903	74.724	358.956	3.57%	18.80%
9.0	4690.401	78.891	437.847	3.77%	22.93%
10.0	4325.206	81.588	519.435	3.90%	27.20%
11.0	3906.041	82.247	601.682	3.93%	31.51%
12.0	3551.293	81.519	683.201	3.90%	35.78%
13.0	3221.801	80.380	763.581	3.84%	39.99%
14.0	2904.002	78.410	841.991	3.75%	44.10%
15.0	2645.432	76.185	918.176	3.64%	48.09%
16.0	2377.313	73.597	991.773	3.52%	51.94%
17.0	2151.677	70.529	1062.301	3.37%	55.63%
18.0	1956.141	67.729	1130.03	3.24%	59.18%
19.0	1771.260	64.849	1194.88	3.10%	62.58%
20.0	1600.702	61.716	1256.596	2.95%	65.81%
21.0	1422.802	58.057	1314.653	2.78%	68.85%
22.0	1236.157	53.433	1368.086	2.56%	71.65%
23.0	1164.391	50.370	1418.456	2.41%	74.29%
24.0	1062.644	48.691	1467.147	2.33%	76.84%
25.0	957.936	45.944	1513.091	2.20%	79.24%
26.0	859.012	42.889	1555.98	2.05%	81.49%
27.0	753.785	39.457	1595.437	1.89%	83.56%
28.0	656.674	35.710	1631.147	1.71%	85.43%
29.0	565.084	31.965	1663.112	1.53%	87.10%
30.0	482.718	28.290	1691.402	1.35%	88.58%
31.0	411.845	24.894	1716.297	1.19%	89.89%
32.0	345.621	21.700	1737.997	1.04%	91.02%
33.0	283.369	18.530	1756.527	0.89%	91.99%
34.0	244.656	15.980	1772.507	0.76%	92.83%
35.0	225.178	14.591	1787.098	0.70%	93.59%
36.0	148.846	11.909	1799.007	0.57%	94.22%
37.0	118.311	8.713	1807.72	0.42%	94.67%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	96.281	7.163	1814.883	0.34%	95.05%
39.0	79.349	5.995	1820.878	0.29%	95.36%
40.0	65.020	5.035	1825.913	0.24%	95.63%
41.0	55.257	4.283	1830.196	0.20%	95.85%
42.0	48.455	3.768	1833.964	0.18%	96.05%
43.0	42.927	3.385	1837.349	0.16%	96.23%
44.0	38.270	3.065	1840.414	0.15%	96.39%
45.0	34.970	2.815	1843.228	0.13%	96.53%
46.0	32.064	2.622	1845.85	0.13%	96.67%
47.0	29.538	2.450	1848.3	0.12%	96.80%
48.0	27.587	2.309	1850.609	0.11%	96.92%
49.0	25.885	2.196	1852.805	0.11%	97.03%
50.0	24.452	2.099	1854.904	0.10%	97.14%
51.0	23.332	2.022	1856.925	0.10%	97.25%
52.0	22.418	1.963	1858.889	0.09%	97.35%
53.0	21.671	1.918	1860.806	0.09%	97.45%
54.0	21.076	1.884	1862.691	0.09%	97.55%
55.0	20.592	1.860	1864.551	0.09%	97.65%
56.0	20.093	1.838	1866.389	0.09%	97.75%
57.0	19.588	1.814	1868.203	0.09%	97.84%
58.0	19.104	1.789	1869.993	0.09%	97.94%
59.0	18.633	1.764	1871.757	0.08%	98.03%
60.0	17.976	1.730	1873.486	0.08%	98.12%
61.0	17.298	1.683	1875.17	0.08%	98.21%
62.0	16.710	1.639	1876.808	0.08%	98.29%
63.0	16.156	1.598	1878.407	0.08%	98.38%
64.0	15.596	1.558	1879.965	0.07%	98.46%
65.0	15.125	1.520	1881.485	0.07%	98.54%
66.0	14.627	1.484	1882.97	0.07%	98.61%
67.0	14.129	1.446	1884.416	0.07%	98.69%
68.0	13.610	1.405	1885.821	0.07%	98.76%
69.0	13.133	1.364	1887.185	0.07%	98.84%
70.0	12.662	1.325	1888.51	0.06%	98.90%
71.0	12.212	1.286	1889.796	0.06%	98.97%
72.0	11.770	1.247	1891.043	0.06%	99.04%
73.0	11.396	1.211	1892.254	0.06%	99.10%
74.0	11.050	1.180	1893.434	0.06%	99.16%
75.0	10.780	1.153	1894.587	0.06%	99.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.531	1.131	1895.719	0.05%	99.28%
77.0	10.275	1.109	1896.828	0.05%	99.34%
78.0	10.054	1.088	1897.916	0.05%	99.40%
79.0	9.818	1.068	1898.984	0.05%	99.45%
80.0	9.590	1.046	1900.03	0.05%	99.51%
81.0	9.396	1.027	1901.057	0.05%	99.56%
82.0	9.168	1.007	1902.064	0.05%	99.61%
83.0	8.974	0.986	1903.05	0.05%	99.67%
84.0	8.808	0.969	1904.019	0.05%	99.72%
85.0	8.594	0.950	1904.968	0.05%	99.77%
86.0	8.345	0.926	1905.894	0.04%	99.82%
87.0	8.158	0.903	1906.797	0.04%	99.86%
88.0	8.019	0.886	1907.684	0.04%	99.91%
89.0	7.902	0.873	1908.556	0.04%	99.95%
90.0	7.853	0.864	1909.42	0.04%	100.00%

Zonal flux distribution table

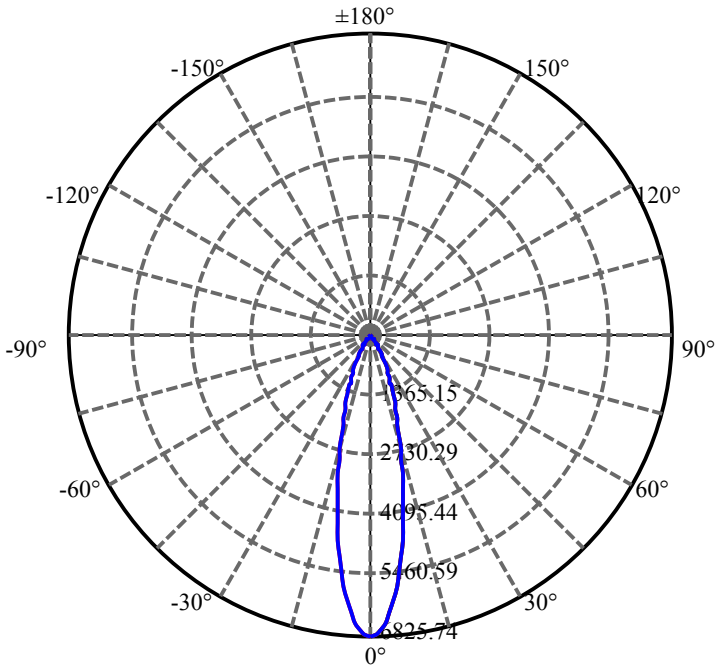
ZONAL LUMEN SUMMARY

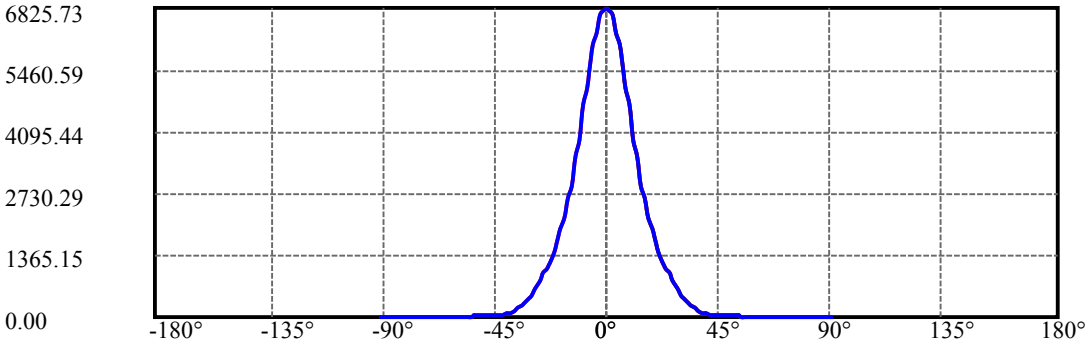
Zone	Lumens	%Lamp	%Fixt
0-30	1691.40	80.88%	88.58%
0-40	1825.91	87.32%	95.63%
0-60	1873.49	89.59%	98.12%
0-90	1908.56	91.27%	99.95%
0-120	1908.56	91.27%	99.95%
0-180	1909.42	91.31%	100.00%
60-90	35.07	1.68%	1.84%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.34	1527.54	73.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	519.43
10-20	737.16
20-30	434.81
30-40	134.51
40-50	28.99
50-60	18.58
60-70	15.02
70-80	11.52
80-90	8.53
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):

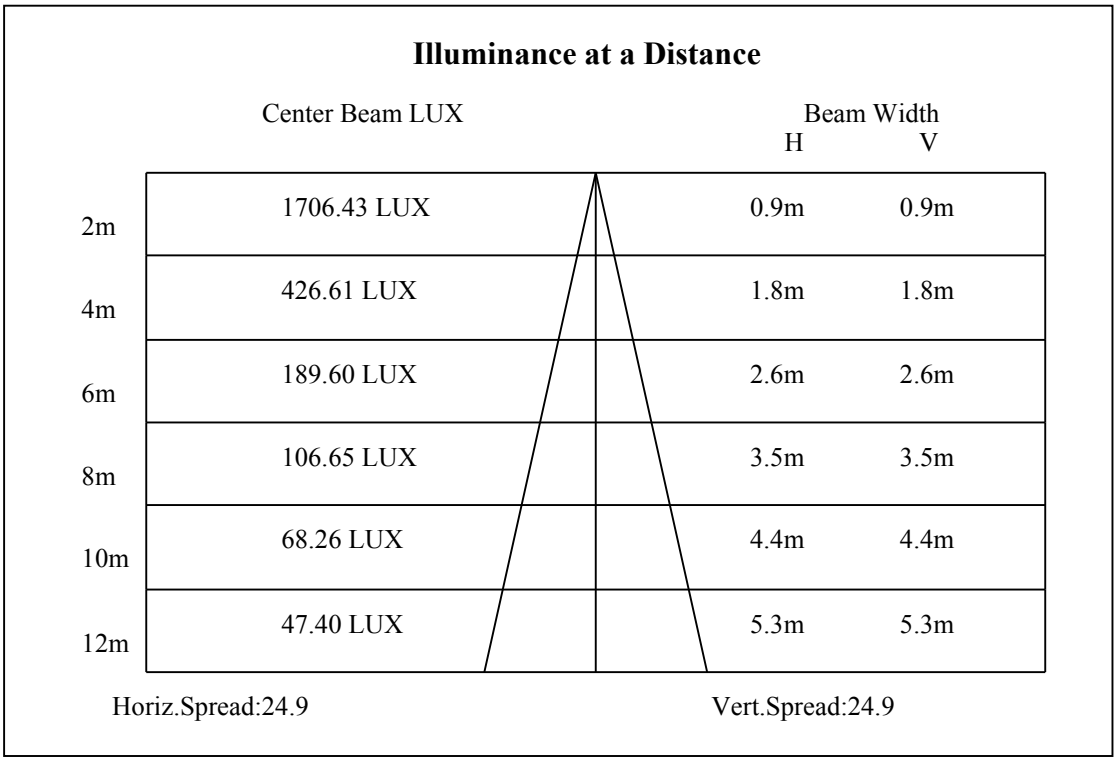
C0/C180:

C90/C270:

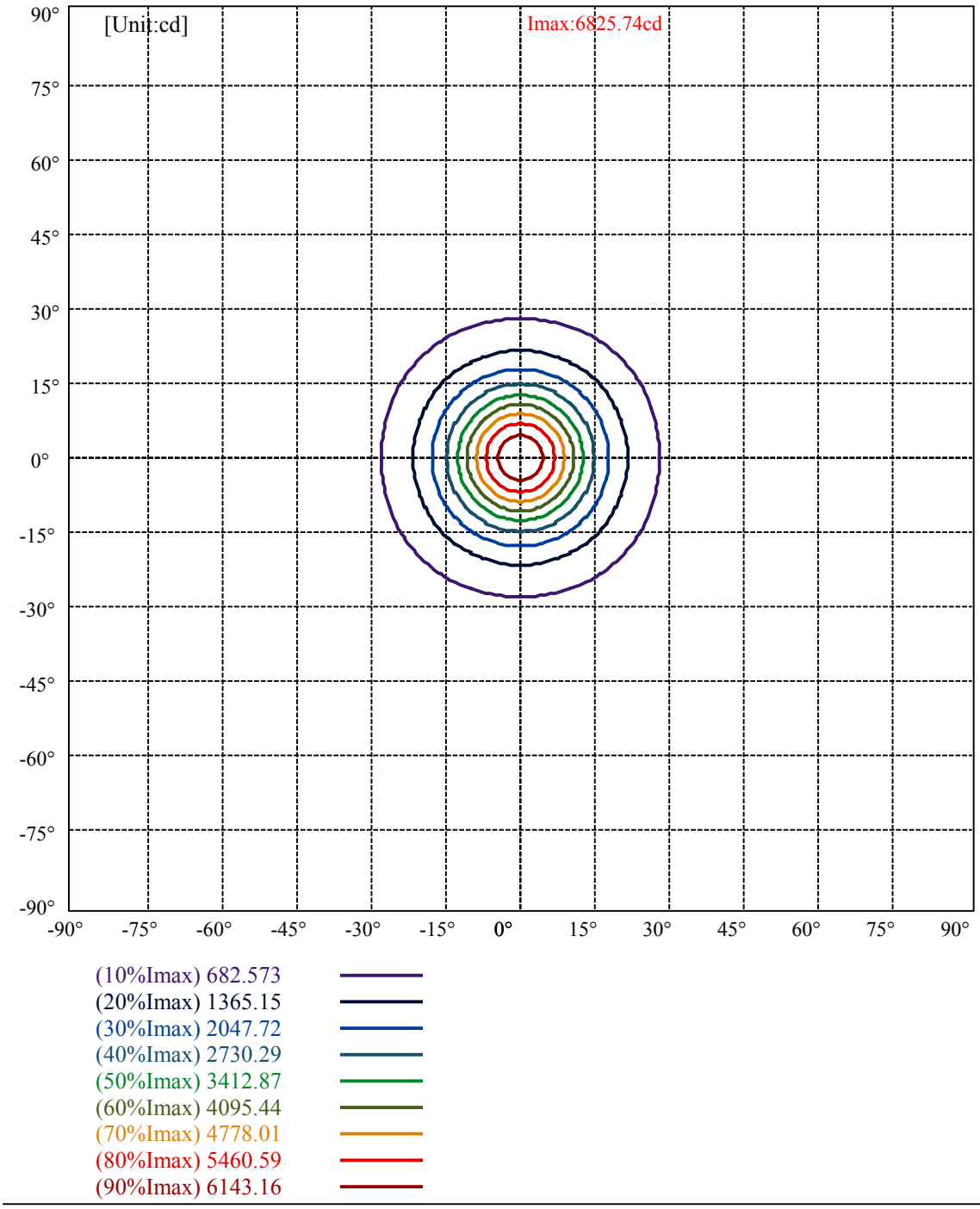
Field angle(10%Imax):C0/180Left:27.7 Right:27.7
:C90/270Left:27.7 Right:27.7

Beam Angle(50%Imax):C0/180Left:12.4 Right:12.4
:C90/270Left:12.4 Right:12.4

Lux distance Curve



ISO-Intensity(V-H)

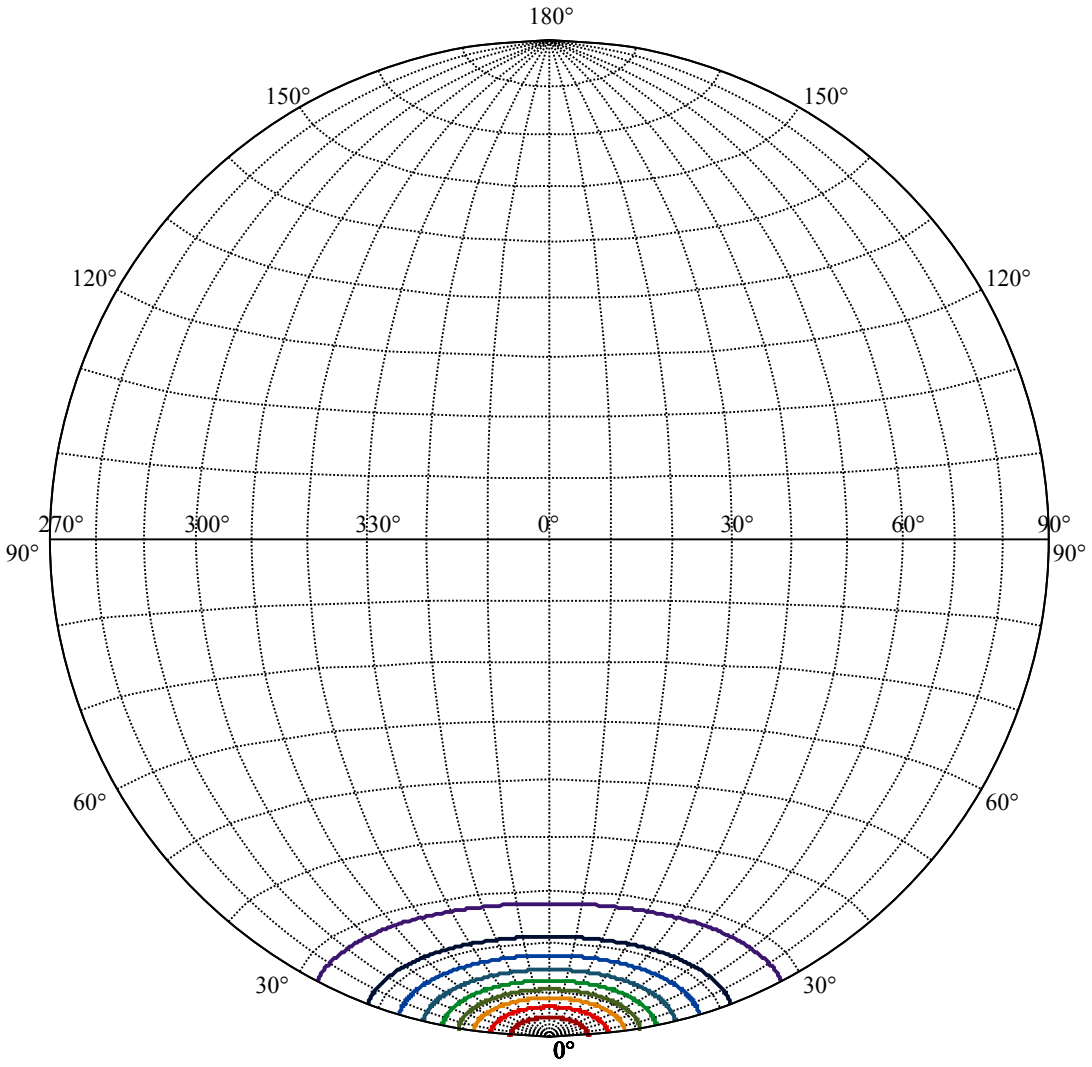


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



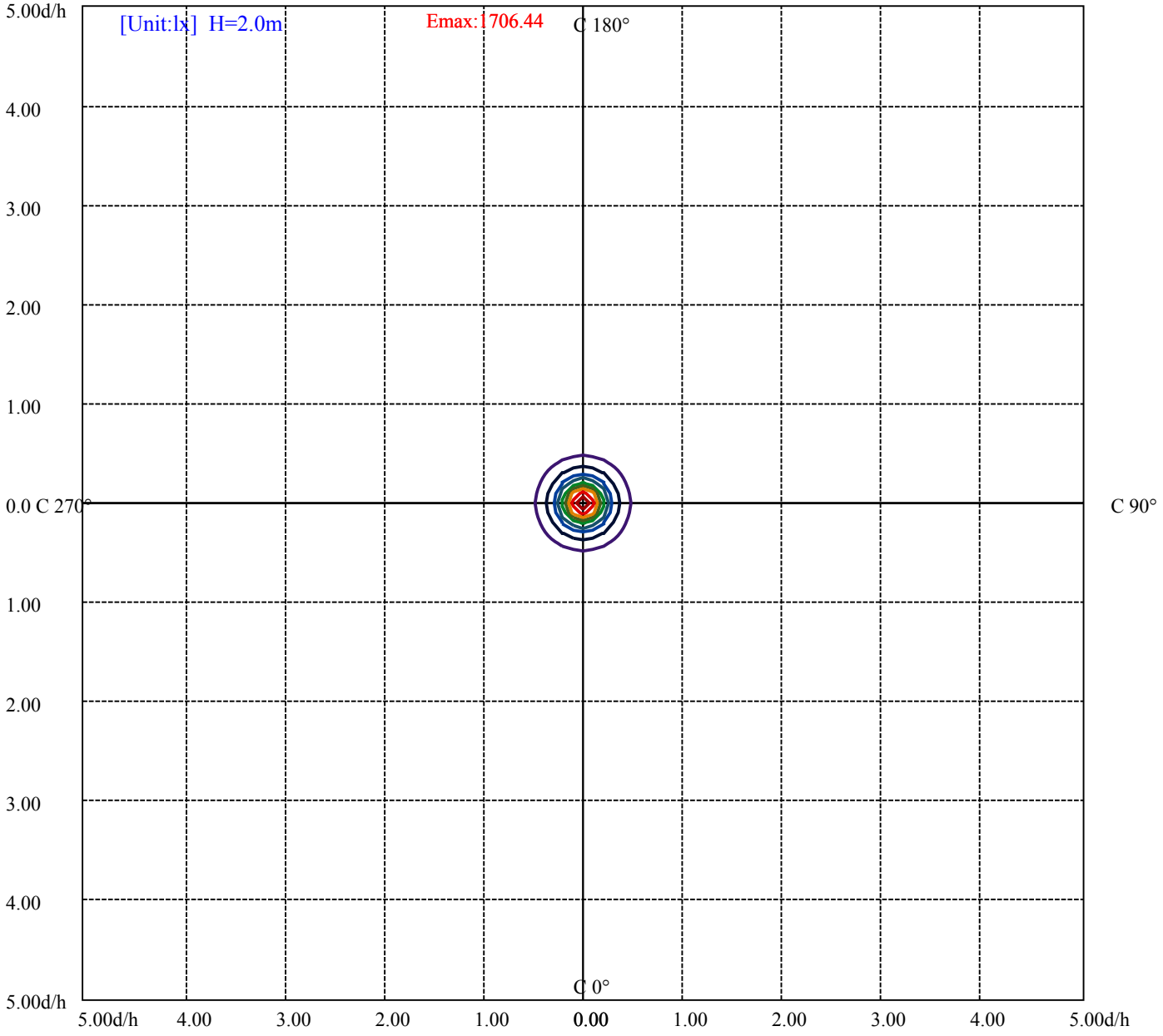
House [Unit:cd] Road

Imax:6825.74

(10%Imax) 682.573
(20%Imax) 1365.15
(30%Imax) 2047.72
(40%Imax) 2730.29
(50%Imax) 3412.87
(60%Imax) 4095.44
(70%Imax) 4778.01
(80%Imax) 5460.59
(90%Imax) 6143.16

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

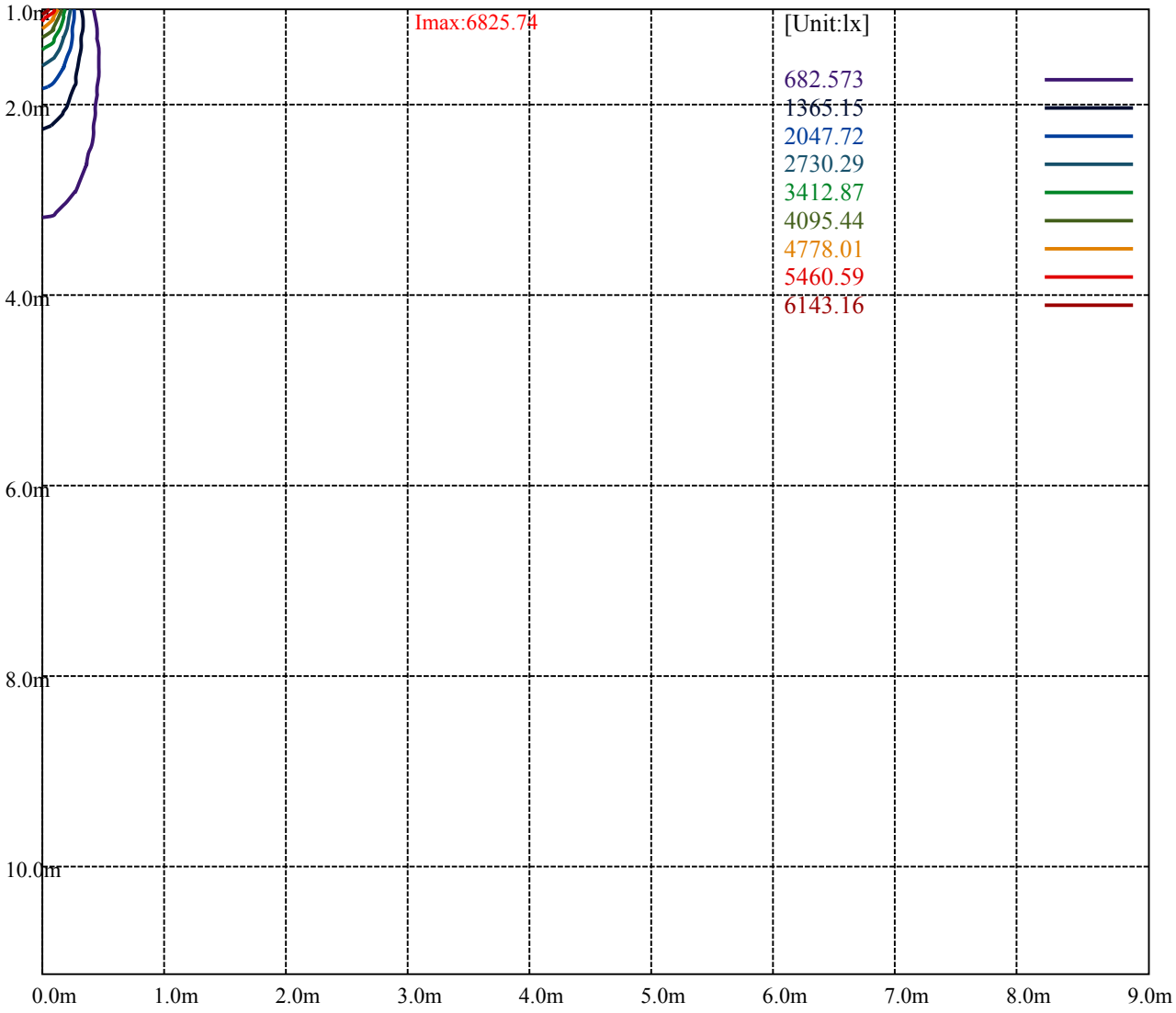
ISO illuminance diagram



(10%Emax) 170.6432
(20%Emax) 341.2875
(30%Emax) 511.93
(40%Emax) 682.5725
(50%Emax) 853.2175
(60%Emax) 1023.86
(70%Emax) 1194.502
(80%Emax) 1365.145
(90%Emax) 1535.79

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

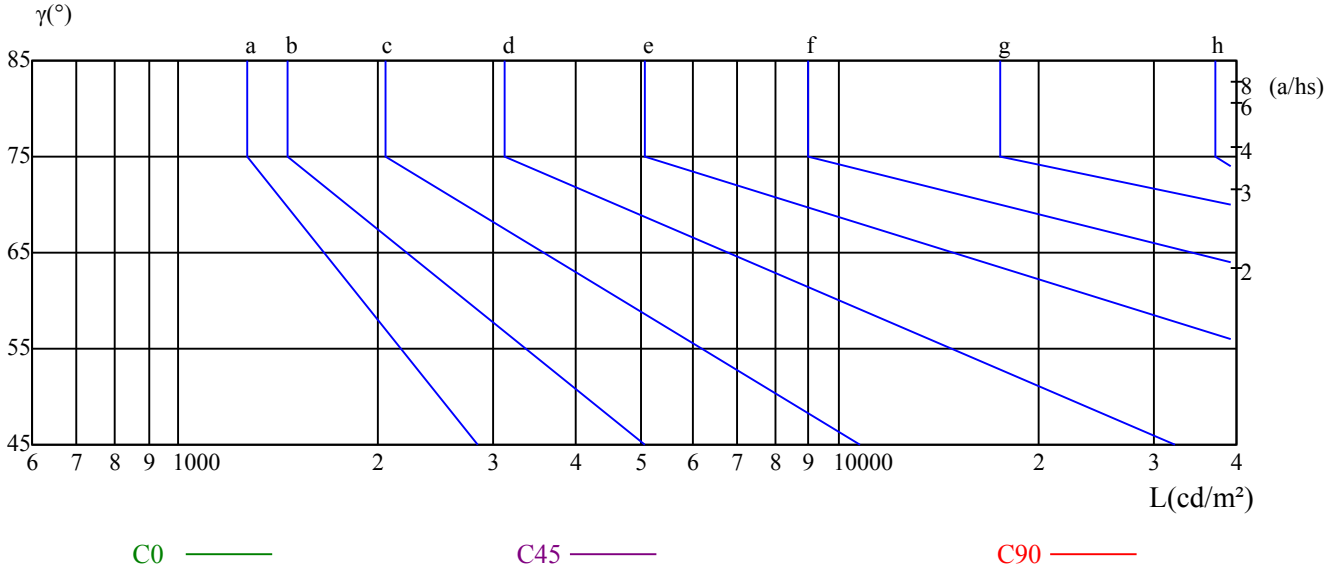
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

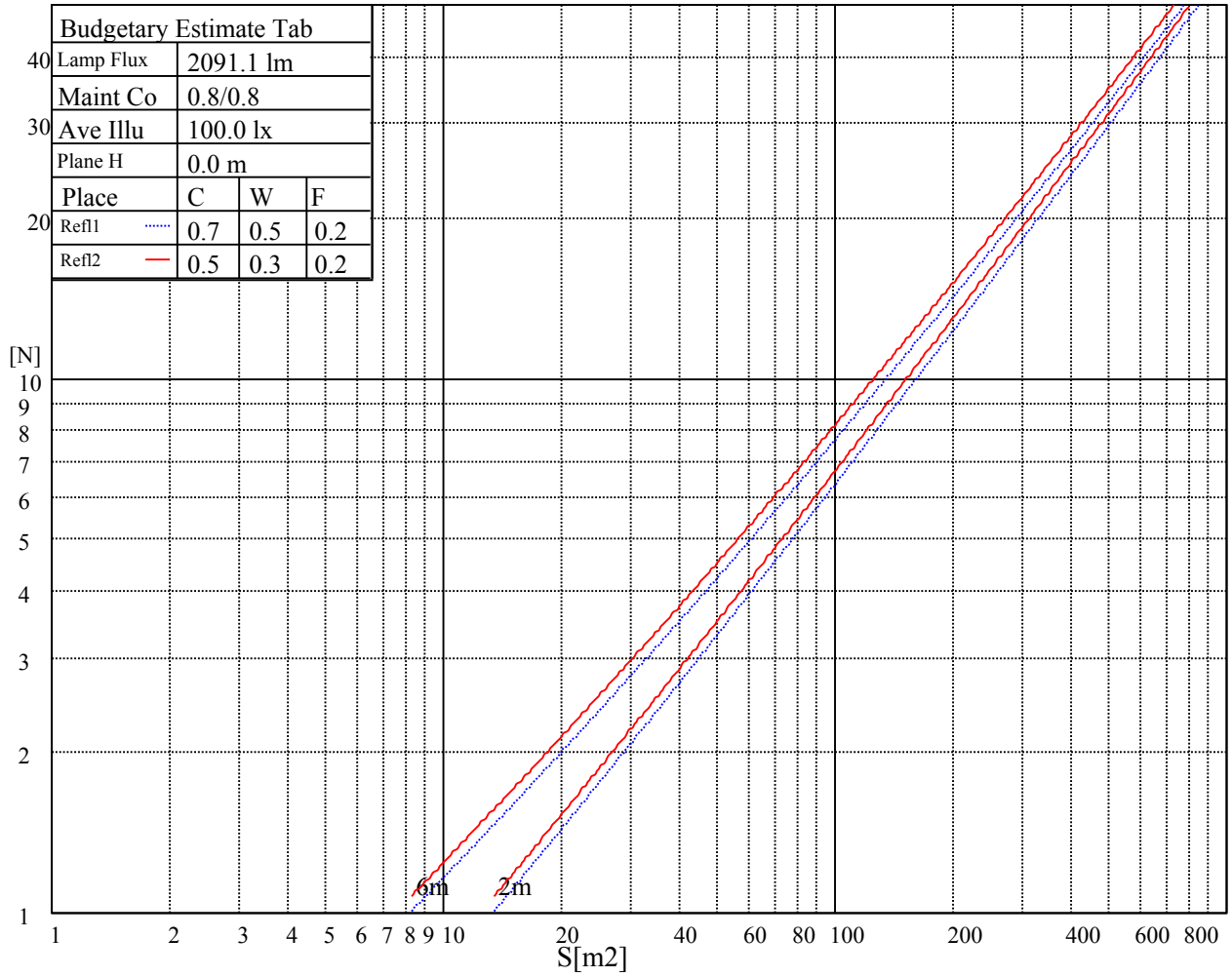


UGR Glare

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

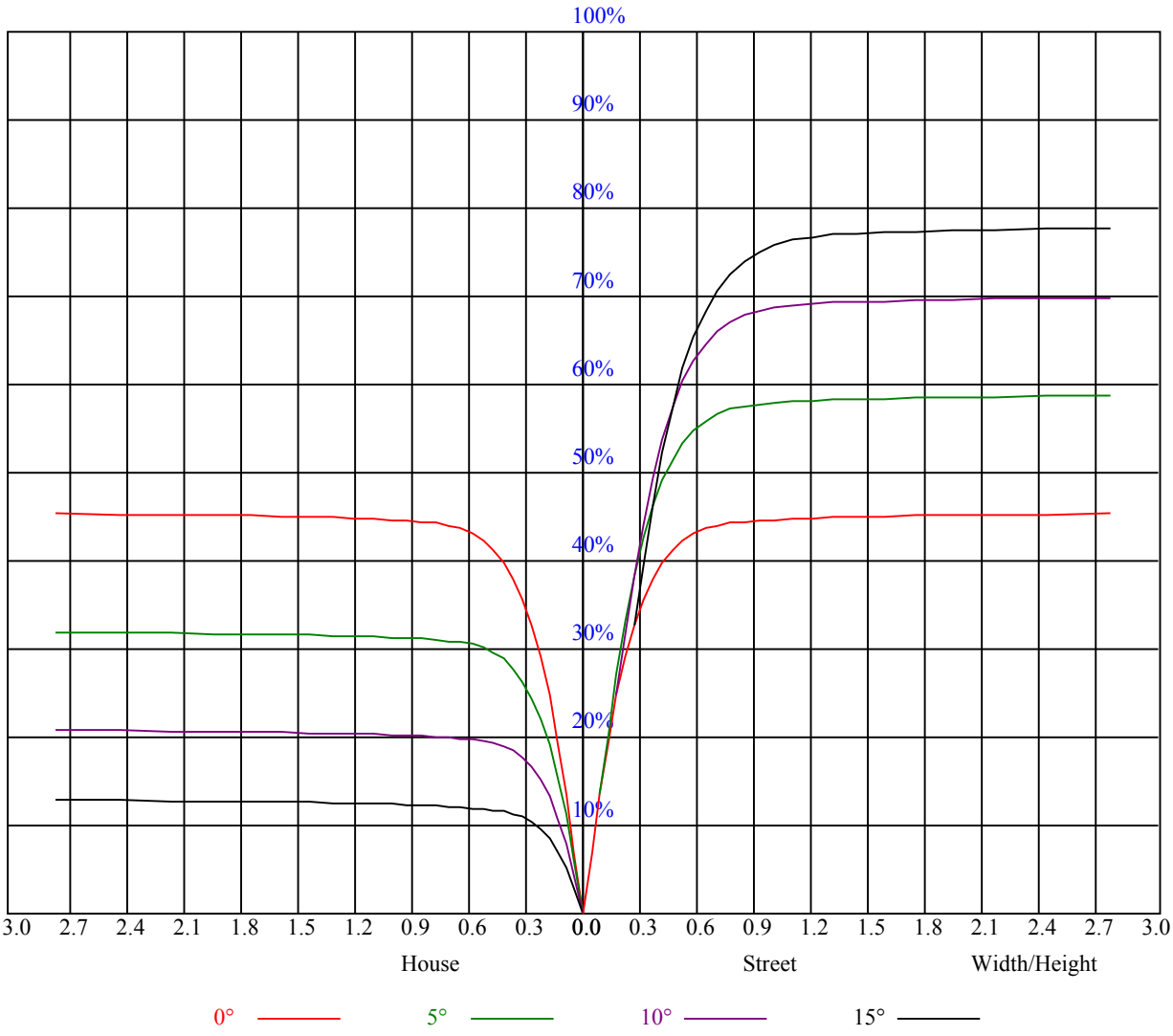


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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

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	6770.24	6656.22	6479.64	6279.26	5984.22	5703.58	5405.78	5070.33	4642.45
45.0	6829.47	6843.31	6801.24	6633.52	6365.06	6127.59	5858.02	5484.38	5157.24
90.0	6872.09	6850.51	6640.16	6422.62	6148.62	5870.19	5488.81	5151.15	4813.49
135.0	6831.13	6835.56	6776.89	6552.70	6333.50	6057.84	5780.52	5389.72	5060.37
180.0	6770.24	6829.47	6816.19	6730.94	6534.44	6313.02	6087.18	5732.92	5429.03
225.0	6829.47	6753.08	6601.41	6433.69	6249.37	5954.88	5684.21	5369.24	4929.18
270.0	6872.09	6844.97	6750.32	6603.08	6390.52	6198.99	5970.38	5628.30	5306.14
315.0	6831.13	6754.74	6608.61	6462.48	6234.97	5998.61	5678.12	5350.98	5013.32
360.0	6770.24	6656.22	6479.64	6279.26	5984.22	5703.58	5405.78	5070.33	4642.45

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4296.49	3940.01	3502.72	3189.97	2843.46	2586.62	2353.03	2136.04	1908.54
45.0	4753.71	4418.27	4077.29	3643.87	3314.52	3005.65	2738.29	2494.18	2215.20
90.0	4491.34	4150.91	3716.39	3376.51	3010.63	2746.59	2500.27	2224.61	2035.30
135.0	4729.91	4401.11	3971.57	3635.57	3315.07	2940.33	2680.72	2382.36	2172.57
180.0	5094.69	4740.43	4300.92	3928.94	3577.45	3183.33	2901.03	2579.42	2335.87
225.0	4554.99	4180.25	3730.78	3395.33	3104.17	2779.25	2524.07	2294.35	2085.67
270.0	4959.63	4595.40	4134.86	3768.97	3435.74	3146.24	2873.35	2551.19	2309.85
315.0	4642.45	4175.27	3813.81	3471.17	3173.37	2844.01	2592.71	2356.35	2150.43
360.0	4296.49	3940.01	3502.72	3189.97	2843.46	2586.62	2353.03	2136.04	1908.54

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1739.15	1583.06	1436.92	1102.53	1102.53	1050.39	950.09	830.64	739.80
45.0	2027.55	1856.50	1699.85	1509.99	1373.82	1222.15	1109.23	1004.06	880.07
90.0	1859.83	1659.45	1516.08	1378.25	1084.99	1084.99	1007.55	912.12	818.62
135.0	1983.82	1810.56	1612.40	1468.48	1335.07	1219.94	1087.64	989.67	891.14
180.0	2136.04	1944.52	1733.07	1584.16	1441.35	1307.95	1161.26	1063.29	960.88
225.0	1863.70	1694.32	1546.52	1406.48	1079.62	1079.62	1029.91	909.74	815.52
270.0	2123.31	1881.97	1714.25	1528.26	1392.09	1270.31	1126.39	1022.88	929.33
315.0	1915.73	1739.71	1546.52	1404.27	1079.78	1079.78	1029.08	931.10	836.73
360.0	1739.15	1583.06	1436.92	1102.53	1102.53	1050.39	950.09	830.64	739.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	628.15	545.57	454.95	390.69	331.07	276.21	227.28	176.02	142.48
45.0	782.09	689.65	582.82	506.98	440.01	378.56	306.60	292.21	292.21
90.0	702.88	616.86	517.00	447.09	381.72	307.16	253.74	208.30	160.53
135.0	799.25	687.44	603.30	507.54	437.24	372.47	297.19	283.36	283.36
180.0	863.46	749.99	659.21	554.03	477.65	409.56	332.07	289.44	289.44
225.0	701.27	615.48	530.95	439.12	374.19	314.13	260.72	204.75	168.55
270.0	831.36	715.11	624.33	543.52	466.02	380.78	318.78	290.55	290.55
315.0	721.81	633.30	548.11	472.78	386.87	326.09	270.57	212.61	174.31
360.0	628.15	545.57	454.95	390.69	331.07	276.21	227.28	176.02	142.48

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	115.36	89.06	73.07	61.28	52.53	44.89	40.46	36.87	33.10
45.0	165.23	126.54	102.68	84.03	67.37	57.96	51.04	44.67	40.57
90.0	130.14	105.78	86.02	71.41	58.34	51.09	45.61	40.35	36.98
135.0	158.31	121.00	97.64	79.76	66.15	54.19	47.49	42.51	37.64
180.0	173.81	141.48	115.36	94.21	74.12	62.11	53.25	46.72	40.68
225.0	138.22	113.86	95.04	77.00	66.20	55.69	49.21	43.78	38.58
270.0	167.11	137.39	108.44	90.23	72.96	62.38	53.91	47.22	42.18
315.0	142.59	111.37	92.00	76.89	62.49	53.75	46.66	41.29	36.42
360.0	115.36	89.06	73.07	61.28	52.53	44.89	40.46	36.87	33.10

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	30.61	27.95	26.29	24.80	23.64	22.47	21.64	21.09	20.59
45.0	37.20	33.60	31.16	29.06	27.23	25.30	24.13	23.25	22.42
90.0	33.99	30.89	28.84	26.63	25.13	23.97	22.97	21.98	21.31
135.0	34.54	31.88	29.06	27.18	25.13	23.86	22.81	21.92	21.26
180.0	36.98	33.93	30.72	28.62	26.74	24.85	23.64	22.64	21.59
225.0	35.43	32.71	29.84	27.95	26.40	25.08	23.75	22.86	22.20
270.0	37.47	34.54	31.99	29.78	27.57	26.13	24.91	23.64	22.75
315.0	33.54	31.00	28.40	26.68	25.24	23.97	22.81	21.98	21.26
360.0	30.61	27.95	26.29	24.80	23.64	22.47	21.64	21.09	20.59

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.09	19.76	19.32	18.93	18.38	17.82	16.99	16.55	16.05
45.0	21.59	21.09	20.54	20.04	19.60	19.04	18.49	17.77	16.99
90.0	20.76	20.31	19.65	19.15	18.71	18.21	17.38	16.83	16.27
135.0	20.65	20.20	19.76	19.26	18.88	18.49	17.99	17.16	16.61
180.0	21.03	20.54	20.15	19.60	19.21	18.82	18.43	17.71	17.10
225.0	21.64	20.98	20.54	19.98	19.32	18.82	17.93	17.27	16.72
270.0	22.03	21.48	20.98	20.31	19.76	19.26	18.76	17.88	17.27
315.0	20.81	20.37	19.82	19.43	18.99	18.60	17.82	17.21	16.66
360.0	20.09	19.76	19.32	18.93	18.38	17.82	16.99	16.55	16.05

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.39	14.89	14.50	14.06	13.40	13.01	12.57	12.18	11.62
45.0	16.61	16.00	15.55	15.06	14.56	14.00	13.51	12.95	12.51
90.0	15.78	15.28	14.72	14.28	13.78	13.28	12.79	12.34	11.90
135.0	16.00	15.50	15.11	14.56	14.12	13.67	13.17	12.62	12.23
180.0	16.61	15.94	15.39	14.89	14.50	14.06	13.62	13.12	12.73
225.0	16.05	15.55	15.11	14.61	14.17	13.51	13.06	12.68	12.23
270.0	16.72	16.16	15.61	15.00	14.56	13.89	13.45	12.90	12.40
315.0	16.11	15.44	15.00	14.56	13.95	13.45	12.90	12.51	12.07
360.0	15.39	14.89	14.50	14.06	13.40	13.01	12.57	12.18	11.62

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.24	11.02	10.63	10.41	10.19	9.91	9.74	9.52	9.35
45.0	12.07	11.51	11.24	10.90	10.63	10.41	10.19	9.91	9.69
90.0	11.40	11.13	10.85	10.57	10.24	10.02	9.80	9.52	9.35
135.0	11.79	11.46	11.13	10.85	10.63	10.41	10.19	10.02	9.74
180.0	12.34	11.96	11.57	11.35	11.13	10.90	10.68	10.41	10.13
225.0	11.68	11.35	10.96	10.68	10.46	10.13	9.91	9.69	9.47
270.0	12.01	11.57	11.18	10.90	10.63	10.35	10.07	9.85	9.58
315.0	11.62	11.18	10.85	10.57	10.35	10.07	9.85	9.63	9.41
360.0	11.24	11.02	10.63	10.41	10.19	9.91	9.74	9.52	9.35

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.19	8.97	8.86	8.75	8.52	8.14	8.03	7.92	7.86
45.0	9.52	9.24	9.02	8.86	8.69	8.36	8.19	8.03	7.86
90.0	9.13	8.97	8.80	8.64	8.36	8.25	8.08	7.97	7.86
135.0	9.52	9.30	9.08	8.91	8.58	8.30	8.19	8.08	7.92
180.0	9.91	9.63	9.35	9.13	8.86	8.69	8.19	8.08	7.97
225.0	9.24	9.02	8.91	8.69	8.52	8.19	8.14	7.97	7.86
270.0	9.47	9.19	8.97	8.80	8.64	8.47	8.25	8.08	7.97
315.0	9.19	9.02	8.80	8.69	8.58	8.36	8.19	8.03	7.92
360.0	9.19	8.97	8.86	8.75	8.52	8.14	8.03	7.92	7.86

Intensity data(cd)

C/γ(°)	90.0
0.0	7.80
45.0	7.86
90.0	7.86
135.0	7.86
180.0	7.92
225.0	7.80
270.0	7.86
315.0	7.86
360.0	7.80