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NATA

Client:
LumCAT: 2-2646-L
Luminaire: 92.70.412.00
Report No: 20231009-B009
Ballast type: AC

Test No: 20231009-C009	Voltage(V): 34.160
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
Lamp flux(lm): 2091.1	Power (W): 15.406
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1924.65, Efficiency(%): 92.04% , Luminous Efficacy(lm/W): 124.93
Central intensity(cd): 3499.122, Maximum intensity(cd): 3499.122
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.6
[C90/270]Total=45.6
Field angle(10%Imax): [C0/180]Total=66.0
[C90/270]Total=66.0
Maximum s/h(1/2): C0_180=0.72 C90_270=0.72
Maximum s/h(1/4): C0_180=0.71 C90_270=0.71
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.04%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.154%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3499.122	0.000	0	0.00%	0.00%
1.0	3488.744	3.344	3.344	0.16%	0.17%
2.0	3455.670	9.967	13.311	0.48%	0.69%
3.0	3411.179	16.423	29.734	0.79%	1.54%
4.0	3356.172	22.652	52.387	1.08%	2.72%
5.0	3303.863	28.651	81.038	1.37%	4.21%
6.0	3247.748	34.430	115.468	1.65%	6.00%
7.0	3190.388	39.961	155.43	1.91%	8.08%
8.0	3128.461	45.223	200.652	2.16%	10.43%
9.0	3068.887	50.226	250.878	2.40%	13.04%
10.0	3005.714	54.973	305.851	2.63%	15.89%
11.0	2934.308	59.353	365.204	2.84%	18.98%
12.0	2864.770	63.392	428.597	3.03%	22.27%
13.0	2791.012	67.120	495.717	3.21%	25.76%
14.0	2705.975	70.361	566.077	3.36%	29.41%
15.0	2620.384	73.123	639.2	3.50%	33.21%
16.0	2526.352	75.414	714.614	3.61%	37.13%
17.0	2422.495	77.067	791.681	3.69%	41.13%
18.0	2311.926	78.060	869.741	3.73%	45.19%
19.0	2197.067	78.447	948.189	3.75%	49.27%
20.0	2079.441	78.272	1026.461	3.74%	53.33%
21.0	1961.399	77.592	1104.053	3.71%	57.36%
22.0	1845.503	76.501	1180.554	3.66%	61.34%
23.0	1722.410	74.864	1255.419	3.58%	65.23%
24.0	1604.507	72.738	1328.157	3.48%	69.01%
25.0	1465.168	69.798	1397.955	3.34%	72.63%
26.0	1303.681	65.359	1463.314	3.13%	76.03%
27.0	1180.665	60.780	1524.094	2.91%	79.19%
28.0	1060.444	56.740	1580.834	2.71%	82.14%
29.0	898.721	51.257	1632.091	2.45%	84.80%
30.0	748.533	44.476	1676.567	2.13%	87.11%
31.0	596.843	37.440	1714.007	1.79%	89.06%
32.0	472.706	30.641	1744.648	1.47%	90.65%
33.0	351.246	24.274	1768.922	1.16%	91.91%
34.0	256.675	18.397	1787.319	0.88%	92.86%
35.0	220.190	14.810	1802.129	0.71%	93.63%
36.0	164.449	12.247	1814.376	0.59%	94.27%
37.0	105.885	8.817	1823.193	0.42%	94.73%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	88.780	6.498	1829.69	0.31%	95.07%
39.0	76.167	5.630	1835.32	0.27%	95.36%
40.0	65.656	4.946	1840.267	0.24%	95.62%
41.0	57.374	4.381	1844.648	0.21%	95.84%
42.0	50.925	3.935	1848.582	0.19%	96.05%
43.0	45.321	3.565	1852.148	0.17%	96.23%
44.0	40.789	3.250	1855.398	0.16%	96.40%
45.0	37.274	3.000	1858.398	0.14%	96.56%
46.0	34.305	2.799	1861.197	0.13%	96.70%
47.0	31.655	2.623	1863.82	0.13%	96.84%
48.0	29.524	2.473	1866.294	0.12%	96.97%
49.0	27.746	2.352	1868.645	0.11%	97.09%
50.0	25.933	2.238	1870.884	0.11%	97.21%
51.0	24.452	2.132	1873.015	0.10%	97.32%
52.0	23.186	2.044	1875.059	0.10%	97.42%
53.0	22.003	1.966	1877.025	0.09%	97.53%
54.0	20.937	1.893	1878.918	0.09%	97.62%
55.0	20.003	1.828	1880.745	0.09%	97.72%
56.0	19.187	1.771	1882.516	0.08%	97.81%
57.0	18.364	1.717	1884.233	0.08%	97.90%
58.0	17.692	1.667	1885.901	0.08%	97.99%
59.0	17.090	1.626	1887.527	0.08%	98.07%
60.0	16.523	1.588	1889.115	0.08%	98.15%
61.0	15.997	1.552	1890.667	0.07%	98.23%
62.0	15.499	1.518	1892.184	0.07%	98.31%
63.0	15.049	1.486	1893.67	0.07%	98.39%
64.0	14.627	1.456	1895.126	0.07%	98.47%
65.0	14.226	1.428	1896.554	0.07%	98.54%
66.0	13.880	1.402	1897.956	0.07%	98.61%
67.0	13.513	1.377	1899.334	0.07%	98.68%
68.0	13.174	1.352	1900.686	0.06%	98.75%
69.0	12.842	1.327	1902.013	0.06%	98.82%
70.0	12.538	1.303	1903.316	0.06%	98.89%
71.0	12.219	1.280	1904.596	0.06%	98.96%
72.0	11.949	1.257	1905.853	0.06%	99.02%
73.0	11.673	1.235	1907.088	0.06%	99.09%
74.0	11.403	1.213	1908.301	0.06%	99.15%
75.0	11.119	1.190	1909.491	0.06%	99.21%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.849	1.166	1910.657	0.06%	99.27%
77.0	10.566	1.142	1911.799	0.05%	99.33%
78.0	10.296	1.117	1912.916	0.05%	99.39%
79.0	10.040	1.093	1914.008	0.05%	99.45%
80.0	9.777	1.068	1915.077	0.05%	99.50%
81.0	9.555	1.045	1916.122	0.05%	99.56%
82.0	9.320	1.024	1917.146	0.05%	99.61%
83.0	9.099	1.001	1918.147	0.05%	99.66%
84.0	8.905	0.981	1919.128	0.05%	99.71%
85.0	8.704	0.961	1920.089	0.05%	99.76%
86.0	8.538	0.943	1921.031	0.05%	99.81%
87.0	8.379	0.926	1921.957	0.04%	99.86%
88.0	8.220	0.909	1922.867	0.04%	99.91%
89.0	8.123	0.896	1923.762	0.04%	99.95%
90.0	8.089	0.889	1924.651	0.04%	100.00%

Zonal flux distribution table

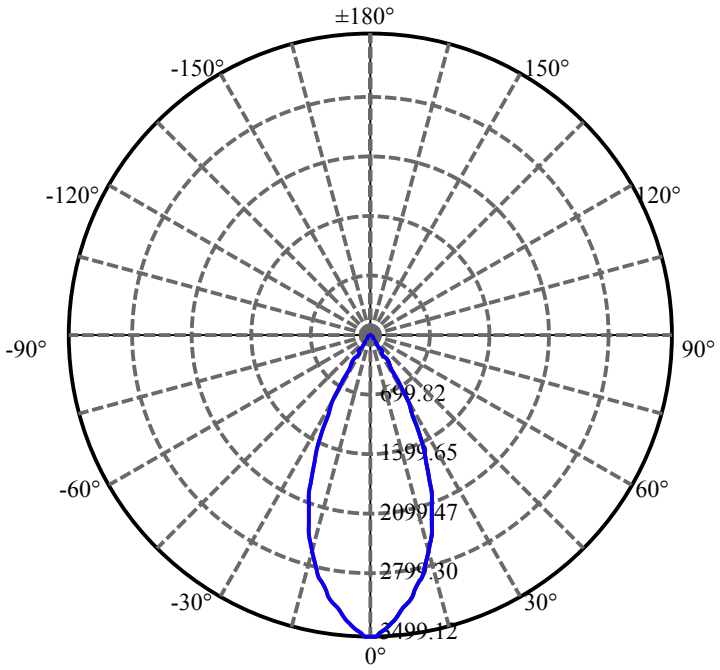
ZONAL LUMEN SUMMARY

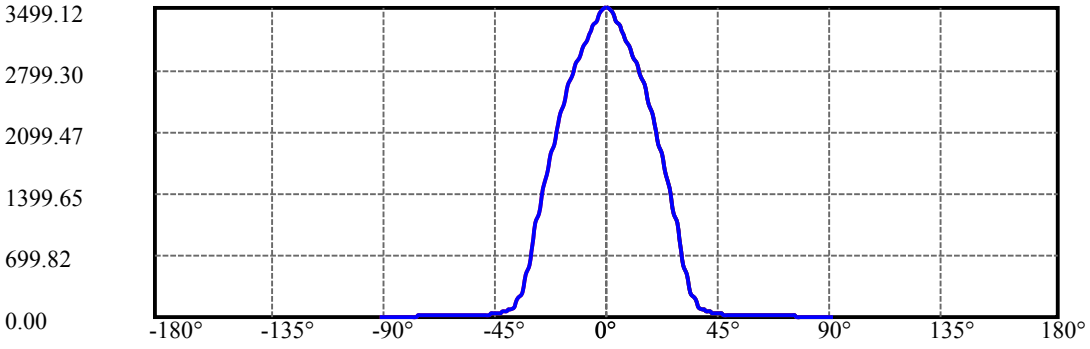
Zone	Lumens	%Lamp	%Fixt
0-30	1676.57	80.17%	87.11%
0-40	1840.27	88.00%	95.62%
0-60	1889.11	90.34%	98.15%
0-90	1923.76	92.00%	99.95%
0-120	1923.76	92.00%	99.95%
0-180	1924.65	92.04%	100.00%
60-90	34.65	1.66%	1.80%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.28	1539.72	73.63%	80.00%

ZONAL LUMEN SUMMARY

0-10	305.85
10-20	720.61
20-30	650.11
30-40	163.70
40-50	30.62
50-60	18.23
60-70	14.20
70-80	11.76
80-90	8.69
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:33.0 Right:33.0
:C90/270Left:33.0 Right:33.0

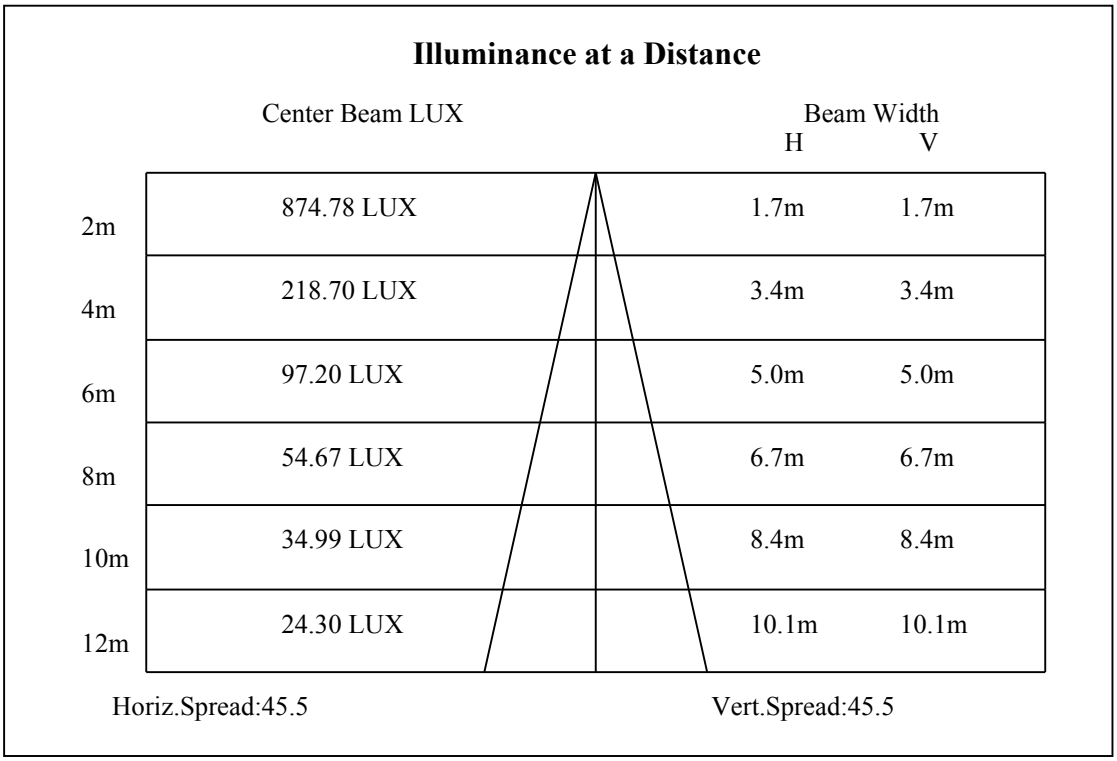
Beam Angle(50%Imax):C0/180Left:22.8 Right:22.8
:C90/270Left:22.8 Right:22.8

Equipment: GMS1980
Temperature(°C): 25.0

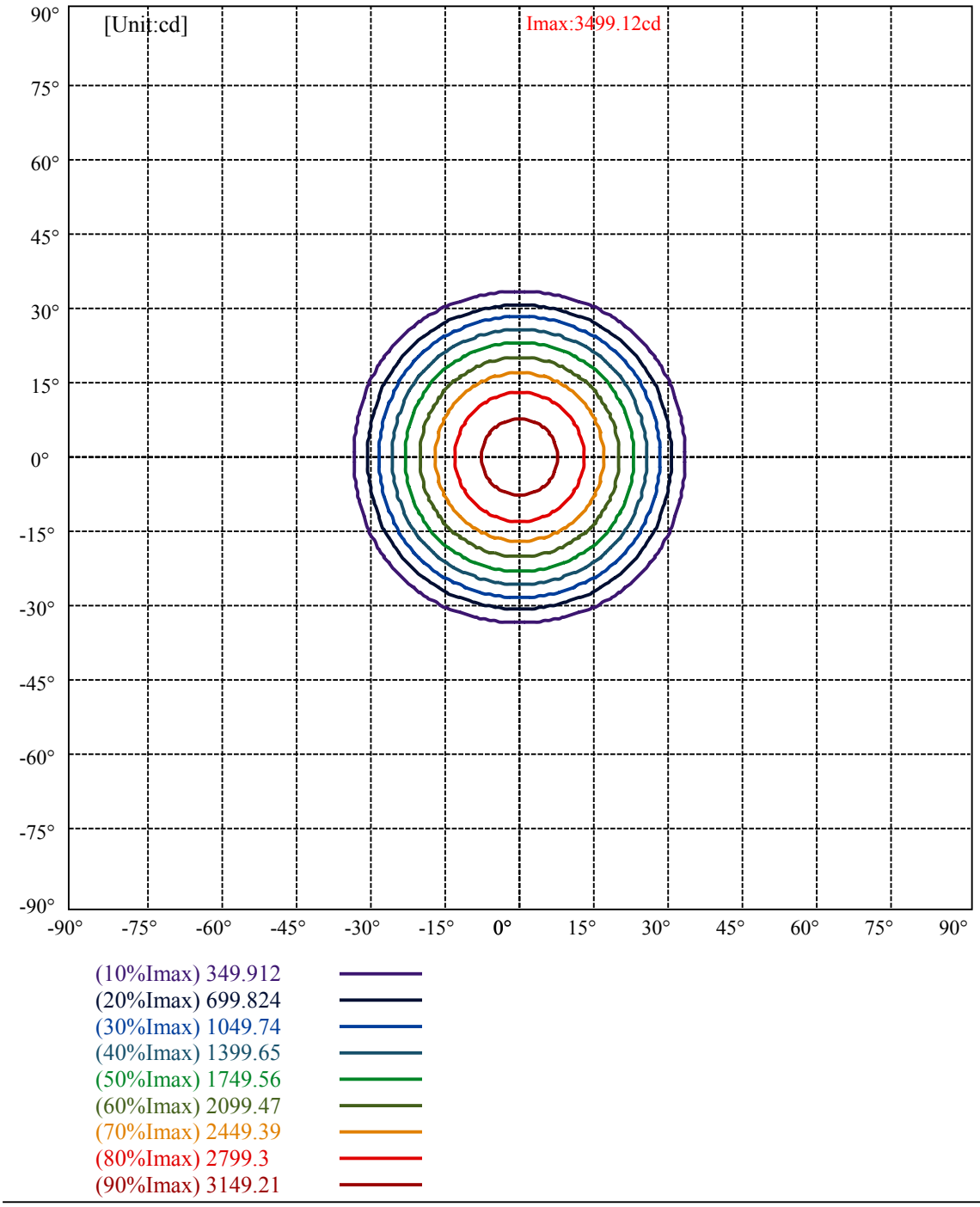
Date: 2023/10/09
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)

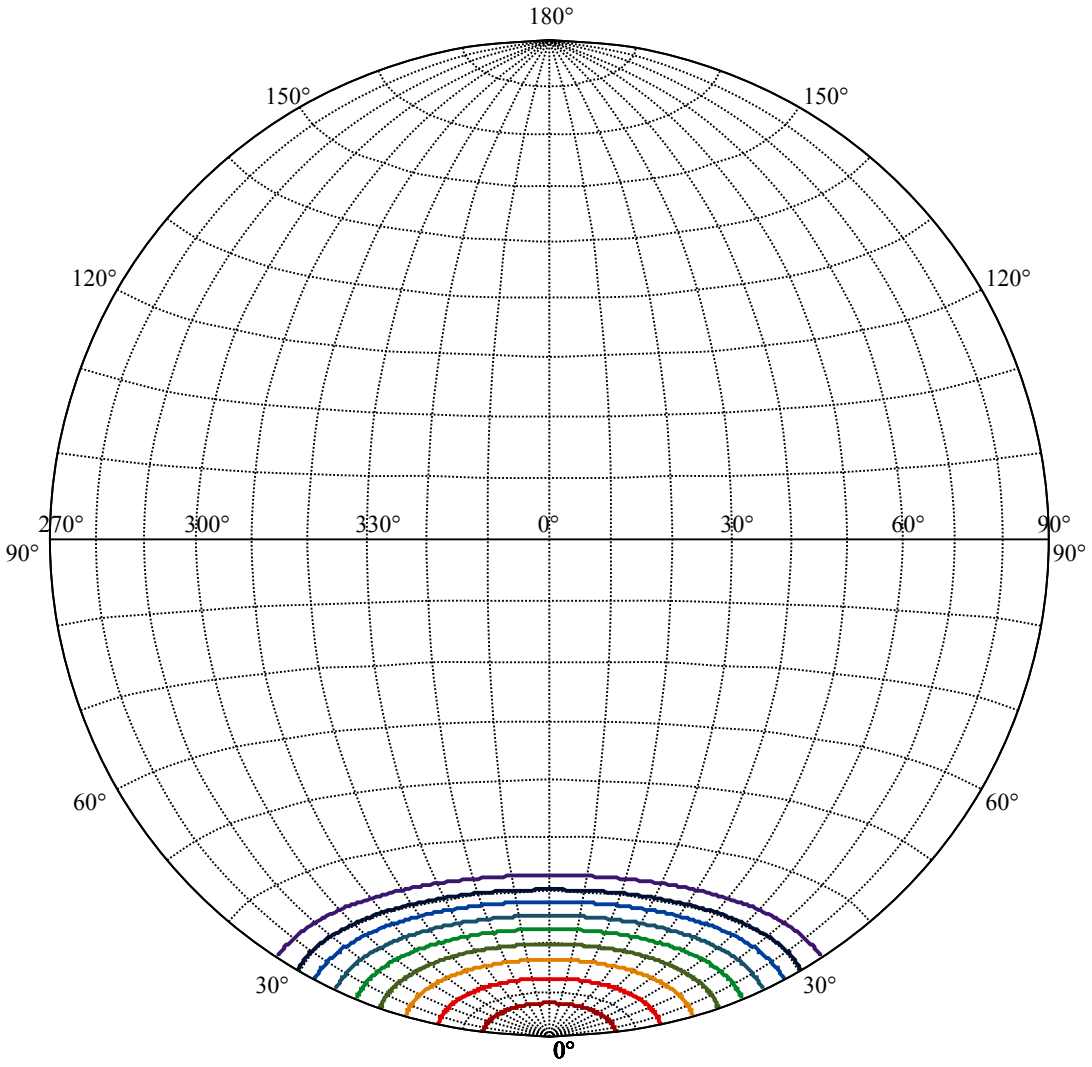


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



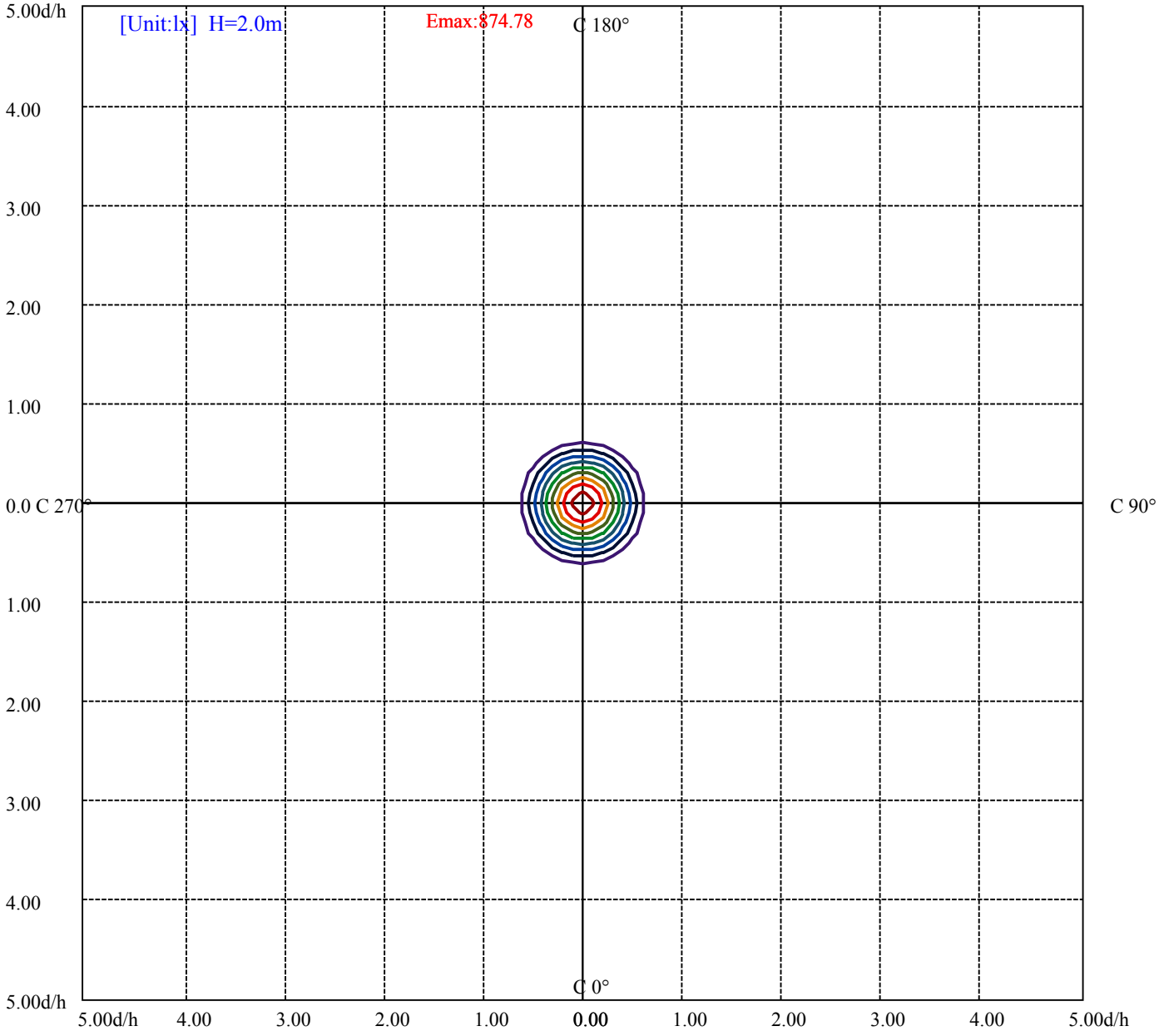
House [Unit:cd] Road

Imax:3499.12

(10%Imax) 349.912
(20%Imax) 699.824
(30%Imax) 1049.74
(40%Imax) 1399.65
(50%Imax) 1749.56
(60%Imax) 2099.47
(70%Imax) 2449.39
(80%Imax) 2799.3
(90%Imax) 3149.21

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

ISO illuminance diagram

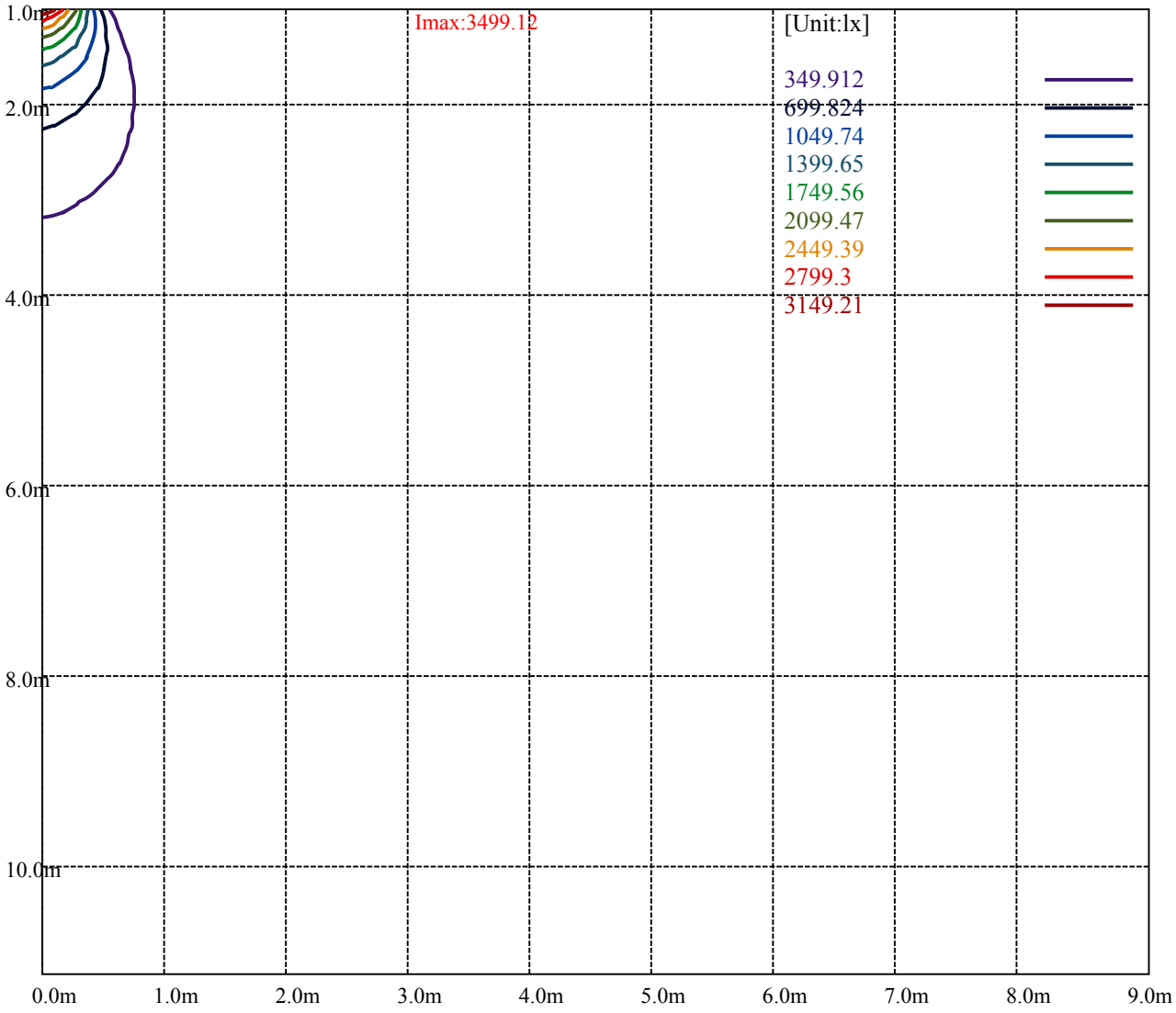


Equipment: GMS1980
Temperature(°C): 25.0

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

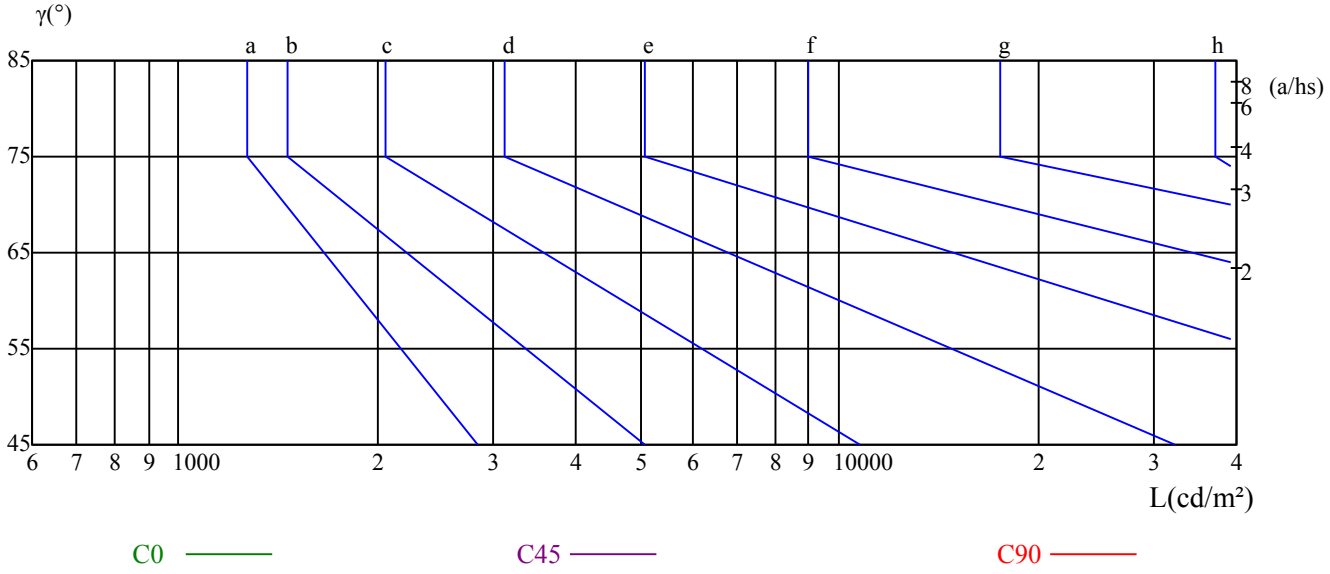
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

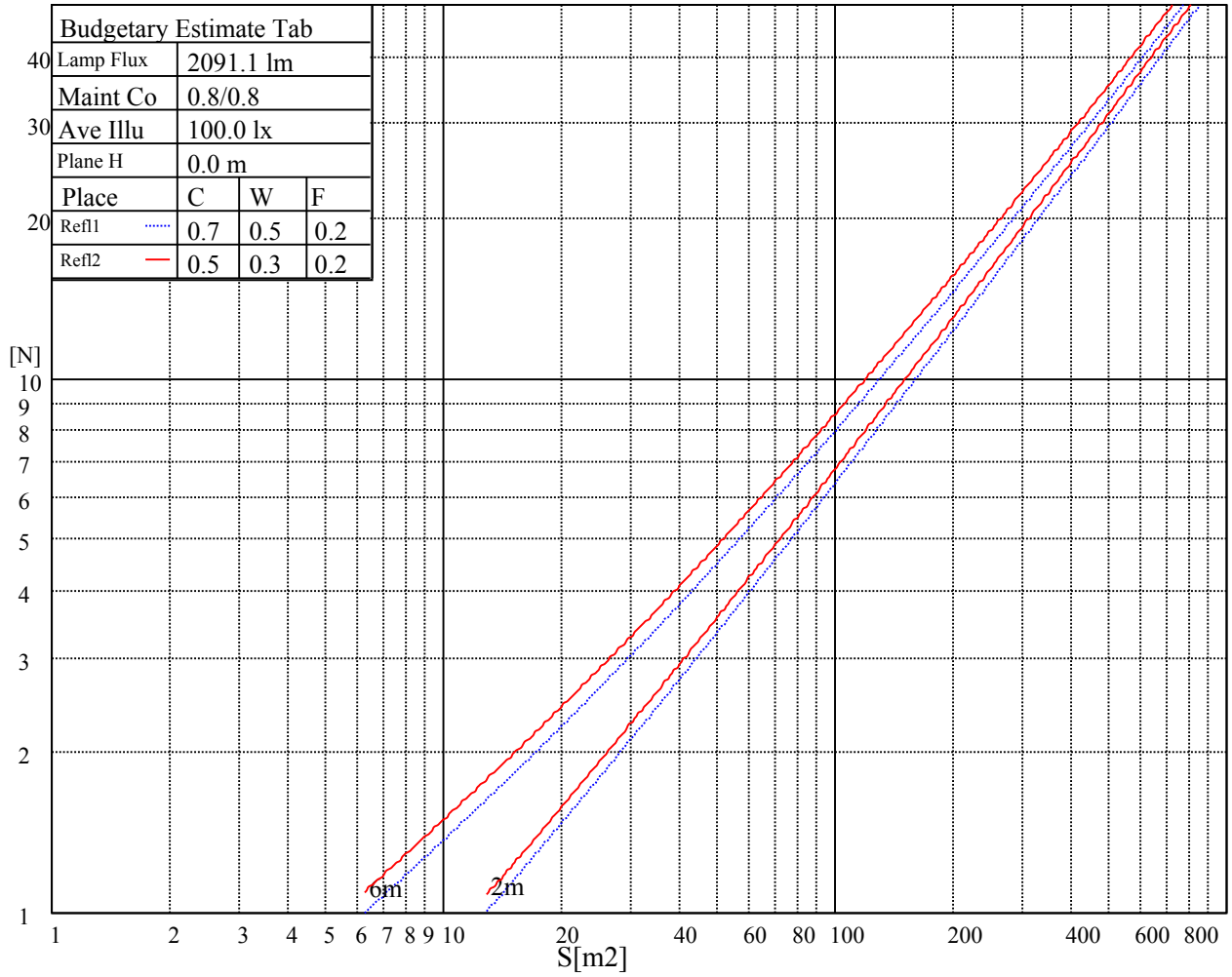
Luminance Limitting Curve



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

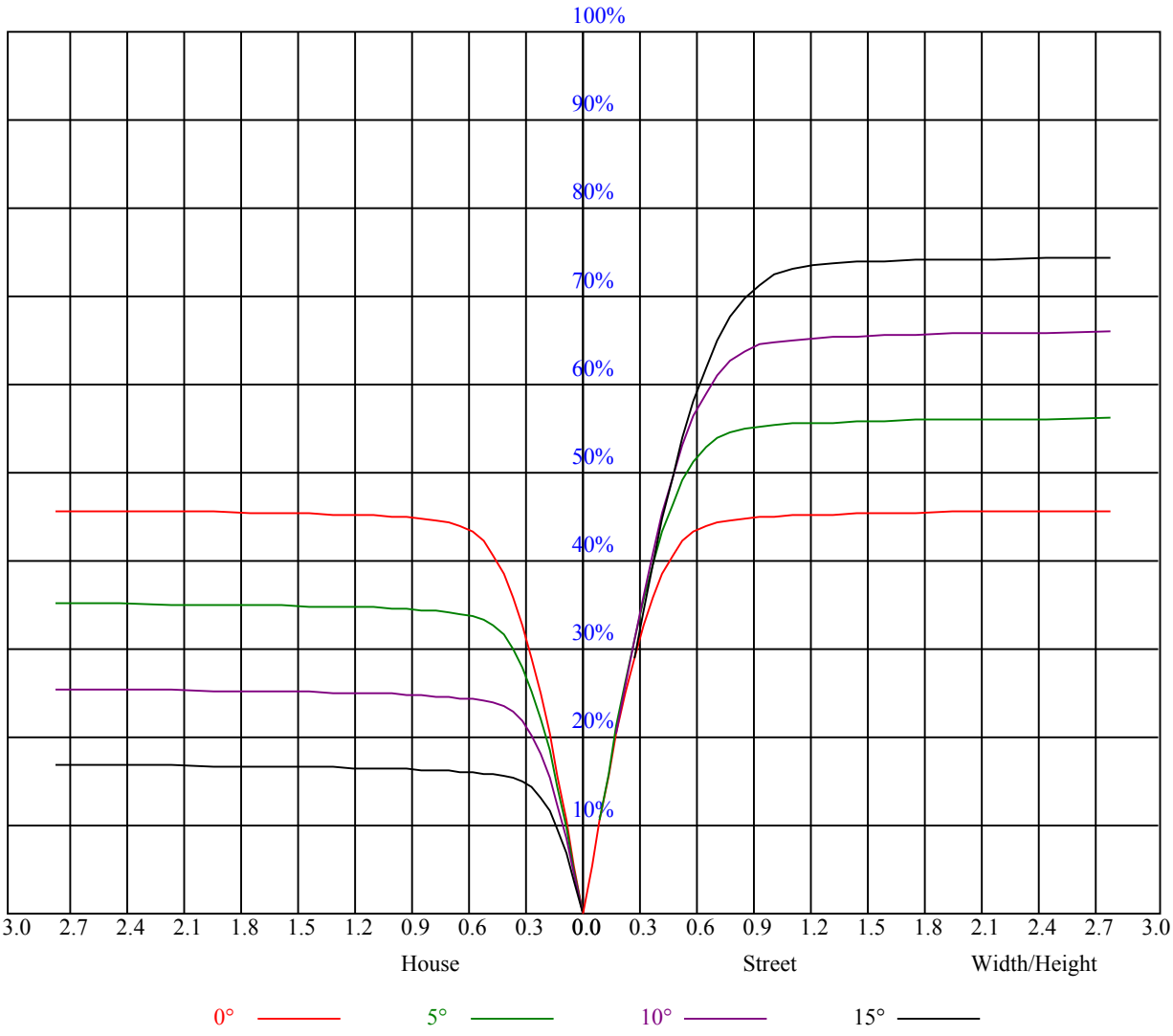


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.93	0.90	0.94	0.91	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.82	0.80	0.83	0.80	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	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.69
6	0.77	0.72	0.69	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.66
7	0.73	0.68	0.65	0.73	0.68	0.65	0.72	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.63
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.55	0.54

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	3467.85	3423.01	3370.43	3326.70	3258.61	3201.04	3153.44	3099.75	3027.23
45.0	3506.04	3502.17	3475.04	3431.31	3377.07	3327.80	3282.97	3238.13	3166.17
90.0	3514.34	3492.20	3455.12	3420.24	3370.43	3322.82	3269.13	3199.38	3139.05
135.0	3508.26	3511.58	3491.65	3445.71	3405.85	3356.03	3296.25	3243.11	3175.03
180.0	3467.85	3506.04	3503.83	3475.04	3429.10	3382.05	3315.63	3256.95	3211.01
225.0	3506.04	3489.99	3440.17	3388.14	3336.66	3288.50	3224.29	3156.76	3106.94
270.0	3514.34	3510.47	3482.79	3442.94	3368.21	3311.20	3255.84	3202.15	3125.76
315.0	3508.26	3474.49	3426.33	3359.35	3303.45	3241.45	3184.44	3126.87	3076.50
360.0	3467.85	3423.01	3370.43	3326.70	3258.61	3201.04	3153.44	3099.75	3027.23

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2969.11	2908.78	2822.98	2756.55	2676.84	2577.21	2476.46	2366.31	2236.78
45.0	3106.39	3046.61	2966.34	2901.03	2829.07	2753.23	2649.17	2563.92	2465.39
90.0	3071.52	2992.91	2923.17	2851.21	2779.25	2680.72	2584.96	2495.28	2397.86
135.0	3117.46	3055.46	2992.36	2896.60	2830.73	2758.77	2681.83	2574.44	2479.79
180.0	3160.08	3092.55	3032.77	2979.08	2907.67	2824.09	2751.02	2671.31	2562.82
225.0	3048.82	2985.16	2907.12	2845.67	2774.27	2685.15	2601.01	2494.73	2398.42
270.0	3078.16	3023.91	2947.52	2883.31	2794.19	2723.90	2651.38	2565.03	2459.31
315.0	2999.56	2940.33	2882.21	2804.71	2736.07	2644.74	2567.24	2479.79	2379.60
360.0	2969.11	2908.78	2822.98	2756.55	2676.84	2577.21	2476.46	2366.31	2236.78

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2125.52	2010.94	1894.14	1757.97	1642.84	1529.92	1421.43	1094.95	1094.95
45.0	2335.31	2230.69	2093.97	1983.82	1875.32	1765.72	1628.45	1513.31	1391.53
90.0	2271.10	2163.16	2053.56	1912.97	1798.94	1652.80	1536.56	1413.12	1082.00
135.0	2379.04	2246.75	2132.72	2019.24	1882.52	1764.62	1651.14	1512.20	1385.45
180.0	2474.80	2370.74	2232.91	2116.67	1994.89	1838.24	1719.78	1612.40	1476.78
225.0	2294.90	2163.16	2054.12	1953.37	1849.86	1719.78	1615.16	1511.10	1395.41
270.0	2375.17	2263.35	2157.07	2042.49	1949.50	1848.20	1714.80	1620.70	1520.51
315.0	2239.55	2127.74	2017.03	1904.66	1770.15	1660.00	1548.74	1443.57	1082.83
360.0	2125.52	2010.94	1894.14	1757.97	1642.84	1529.92	1421.43	1094.95	1094.95

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	989.45	854.11	688.43	563.22	414.88	308.71	220.47	146.24	116.74
45.0	1252.60	1065.50	918.26	773.79	603.30	479.86	367.49	293.32	293.32
90.0	1082.00	931.44	785.08	612.32	481.63	364.23	266.64	178.35	138.77
135.0	1242.08	1097.61	914.94	776.56	644.26	518.61	374.69	298.30	298.30
180.0	1355.00	1217.72	1077.68	898.89	757.74	627.65	503.66	365.28	292.21
225.0	1076.41	1076.41	927.50	778.16	602.41	473.38	333.95	242.95	175.08
270.0	1364.96	1227.13	1042.25	889.48	737.25	594.44	433.36	324.32	299.96
315.0	1082.83	1013.64	835.62	695.85	533.28	414.76	309.70	204.64	147.13
360.0	989.45	854.11	688.43	563.22	414.88	308.71	220.47	146.24	116.74

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	97.75	80.37	70.02	61.50	54.30	47.16	42.57	38.86	35.76
45.0	134.51	106.33	90.39	78.21	66.31	58.67	52.25	46.88	41.63
90.0	115.02	97.37	81.20	71.30	62.99	54.63	48.99	43.40	39.69
135.0	135.39	112.20	91.67	79.71	70.30	62.44	54.14	48.77	44.34
180.0	292.21	130.41	108.27	91.72	76.33	67.09	59.51	51.81	46.55
225.0	125.54	103.73	87.40	75.23	63.77	56.13	49.98	44.62	39.58
270.0	299.96	120.39	99.36	83.69	71.90	60.61	53.47	47.60	41.68
315.0	115.19	96.26	81.92	67.97	59.34	52.25	46.50	40.63	37.09
360.0	97.75	80.37	70.02	61.50	54.30	47.16	42.57	38.86	35.76

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	32.60	30.50	28.23	26.68	25.30	23.75	22.69	21.70	20.81
45.0	38.19	35.26	32.82	30.17	28.29	26.68	24.91	23.69	22.31
90.0	36.53	33.93	31.11	29.23	27.46	25.96	24.24	23.03	21.98
135.0	40.63	36.81	34.15	31.88	29.84	27.62	26.07	24.63	23.19
180.0	42.35	38.86	35.15	32.66	30.56	28.17	26.57	25.08	23.47
225.0	36.31	33.54	30.72	28.73	27.01	25.13	23.80	22.36	21.37
270.0	38.08	34.37	31.83	29.78	27.95	25.96	24.58	23.36	22.20
315.0	33.49	31.16	29.23	27.07	25.57	24.19	22.75	21.64	20.70
360.0	32.60	30.50	28.23	26.68	25.30	23.75	22.69	21.70	20.81

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.82	19.04	18.38	17.71	17.05	16.55	16.11	15.55	15.17
45.0	21.37	20.48	19.65	18.65	17.99	17.33	16.83	16.33	15.67
90.0	20.70	19.82	18.99	18.10	17.44	16.88	16.27	15.78	15.33
135.0	22.09	20.87	20.04	19.26	18.43	17.77	17.21	16.61	16.05
180.0	22.36	21.31	20.15	19.32	18.60	17.93	17.16	16.61	16.11
225.0	20.37	19.54	18.76	17.88	17.27	16.72	16.22	15.61	15.17
270.0	20.92	20.04	19.26	18.32	17.66	17.10	16.38	15.94	15.44
315.0	19.87	18.93	18.27	17.66	17.10	16.44	16.00	15.55	15.06
360.0	19.82	19.04	18.38	17.71	17.05	16.55	16.11	15.55	15.17

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.78	14.34	13.95	13.67	13.28	12.95	12.68	12.40	12.07
45.0	15.28	14.89	14.39	14.06	13.67	13.34	13.01	12.62	12.34
90.0	14.83	14.45	14.06	13.73	13.40	13.01	12.73	12.40	12.01
135.0	15.61	15.17	14.72	14.34	13.95	13.62	13.17	12.84	12.51
180.0	15.61	15.06	14.67	14.28	13.84	13.51	13.12	12.84	12.51
225.0	14.67	14.28	13.89	13.51	13.17	12.90	12.51	12.23	12.01
270.0	14.95	14.56	14.17	13.84	13.45	13.12	12.84	12.57	12.18
315.0	14.67	14.28	13.95	13.62	13.34	12.95	12.68	12.40	12.12
360.0	14.78	14.34	13.95	13.67	13.28	12.95	12.68	12.40	12.07

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.79	11.51	11.24	10.96	10.68	10.35	10.07	9.80	9.52
45.0	12.07	11.79	11.46	11.18	10.90	10.63	10.30	10.07	9.80
90.0	11.79	11.46	11.18	10.90	10.57	10.30	10.02	9.80	9.52
135.0	12.18	11.90	11.62	11.35	11.07	10.74	10.46	10.13	9.91
180.0	12.18	11.96	11.68	11.40	11.18	10.85	10.63	10.41	10.07
225.0	11.79	11.46	11.24	10.96	10.74	10.46	10.24	9.96	9.69
270.0	11.96	11.73	11.46	11.18	10.85	10.63	10.41	10.13	9.91
315.0	11.85	11.57	11.35	11.02	10.79	10.57	10.24	10.02	9.80
360.0	11.79	11.51	11.24	10.96	10.68	10.35	10.07	9.80	9.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.35	9.13	8.97	8.80	8.58	8.41	8.30	8.08	8.19
45.0	9.52	9.30	9.08	8.91	8.69	8.52	8.36	8.19	8.03
90.0	9.30	9.08	8.86	8.75	8.52	8.41	8.25	8.08	8.14
135.0	9.69	9.41	9.19	8.91	8.75	8.58	8.41	8.25	8.03
180.0	9.85	9.58	9.30	9.08	8.91	8.75	8.52	8.36	8.25
225.0	9.52	9.30	9.08	8.86	8.69	8.47	8.36	8.25	8.08
270.0	9.69	9.41	9.24	9.02	8.80	8.64	8.47	8.30	8.19
315.0	9.52	9.35	9.08	8.91	8.69	8.52	8.36	8.25	8.08
360.0	9.35	9.13	8.97	8.80	8.58	8.41	8.30	8.08	8.19

Intensity data(cd)

C/γ(°)	90.0
0.0	8.19
45.0	8.14
90.0	8.14
135.0	8.14
180.0	8.08
225.0	7.97
270.0	8.03
315.0	8.03
360.0	8.19