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NATA

Client:
LumCAT: 2-2646-L
Luminaire: 92.70.412.00
Report No: 20231009-B008
Ballast type: AC

Test No: 20231009-C008	Voltage(V): 34.330
LampCAT: BRIDGELUX V13B LES13	Current(A): 0.451
Lamp flux(lm): 2091.1	Power (W): 15.482
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1920.91, Efficiency(%): 91.86% , Luminous Efficacy(lm/W): 124.07
Central intensity(cd): 3504.104, Maximum intensity(cd): 3504.104
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.4
[C90/270]Total=45.4
Field angle(10%Imax): [C0/180]Total=67.2
[C90/270]Total=67.2
Maximum s/h(1/2): C0_180=0.72 C90_270=0.72
Maximum s/h(1/4): C0_180=0.70 C90_270=0.70
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.86%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.230%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3504.104	0.000	0	0.00%	0.00%
1.0	3486.530	3.345	3.345	0.16%	0.17%
2.0	3458.092	9.968	13.312	0.48%	0.69%
3.0	3411.802	16.431	29.743	0.79%	1.55%
4.0	3358.594	22.663	52.406	1.08%	2.73%
5.0	3299.434	28.642	81.048	1.37%	4.22%
6.0	3239.652	34.365	115.413	1.64%	6.01%
7.0	3179.317	39.842	155.255	1.91%	8.08%
8.0	3123.479	45.108	200.363	2.16%	10.43%
9.0	3062.798	50.136	250.5	2.40%	13.04%
10.0	2996.027	54.830	305.33	2.62%	15.90%
11.0	2929.742	59.211	364.54	2.83%	18.98%
12.0	2856.467	63.252	427.792	3.02%	22.27%
13.0	2786.168	66.964	494.756	3.20%	25.76%
14.0	2709.849	70.349	565.104	3.36%	29.42%
15.0	2614.226	73.091	638.196	3.50%	33.22%
16.0	2518.603	75.210	713.406	3.60%	37.14%
17.0	2412.116	76.785	790.19	3.67%	41.14%
18.0	2311.511	77.882	868.073	3.72%	45.19%
19.0	2201.150	78.511	946.584	3.75%	49.28%
20.0	2077.780	78.316	1024.9	3.75%	53.35%
21.0	1962.022	77.572	1102.472	3.71%	57.39%
22.0	1836.439	76.332	1178.804	3.65%	61.37%
23.0	1707.257	74.356	1253.16	3.56%	65.24%
24.0	1560.570	71.446	1324.607	3.42%	68.96%
25.0	1397.229	67.254	1391.861	3.22%	72.46%
26.0	1234.531	62.123	1453.984	2.97%	75.69%
27.0	1142.464	58.154	1512.137	2.78%	78.72%
28.0	1010.328	54.504	1566.642	2.61%	81.56%
29.0	861.053	48.961	1615.602	2.34%	84.11%
30.0	733.408	43.050	1658.652	2.06%	86.35%
31.0	596.864	37.020	1695.672	1.77%	88.27%
32.0	495.159	31.285	1726.957	1.50%	89.90%
33.0	394.526	26.210	1753.167	1.25%	91.27%
34.0	316.692	21.524	1774.691	1.03%	92.39%
35.0	257.512	17.833	1792.524	0.85%	93.32%
36.0	223.006	15.300	1807.823	0.73%	94.11%
37.0	164.476	12.637	1820.461	0.60%	94.77%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	116.997	9.395	1829.856	0.45%	95.26%
39.0	89.659	7.054	1836.91	0.34%	95.63%
40.0	71.904	5.635	1842.545	0.27%	95.92%
41.0	58.128	4.630	1847.175	0.22%	96.16%
42.0	49.036	3.893	1851.068	0.19%	96.36%
43.0	41.806	3.365	1854.433	0.16%	96.54%
44.0	37.032	2.976	1857.409	0.14%	96.69%
45.0	32.998	2.691	1860.1	0.13%	96.83%
46.0	30.182	2.471	1862.571	0.12%	96.96%
47.0	27.587	2.298	1864.869	0.11%	97.08%
48.0	25.442	2.144	1867.012	0.10%	97.19%
49.0	23.802	2.022	1869.035	0.10%	97.30%
50.0	22.224	1.919	1870.954	0.09%	97.40%
51.0	20.979	1.828	1872.781	0.09%	97.49%
52.0	19.900	1.754	1874.536	0.08%	97.59%
53.0	19.000	1.692	1876.228	0.08%	97.67%
54.0	18.246	1.642	1877.869	0.08%	97.76%
55.0	17.506	1.596	1879.465	0.08%	97.84%
56.0	16.869	1.553	1881.019	0.07%	97.92%
57.0	16.336	1.518	1882.537	0.07%	98.00%
58.0	15.838	1.488	1884.025	0.07%	98.08%
59.0	15.388	1.460	1885.485	0.07%	98.16%
60.0	14.945	1.433	1886.918	0.07%	98.23%
61.0	14.593	1.410	1888.327	0.07%	98.30%
62.0	14.226	1.389	1889.716	0.07%	98.38%
63.0	13.908	1.368	1891.084	0.07%	98.45%
64.0	13.575	1.349	1892.433	0.06%	98.52%
65.0	13.306	1.330	1893.763	0.06%	98.59%
66.0	13.001	1.313	1895.076	0.06%	98.65%
67.0	12.745	1.295	1896.37	0.06%	98.72%
68.0	12.468	1.277	1897.647	0.06%	98.79%
69.0	12.199	1.258	1898.906	0.06%	98.85%
70.0	11.956	1.241	1900.146	0.06%	98.92%
71.0	11.693	1.222	1901.369	0.06%	98.98%
72.0	11.458	1.204	1902.573	0.06%	99.05%
73.0	11.209	1.185	1903.758	0.06%	99.11%
74.0	10.974	1.166	1904.924	0.06%	99.17%
75.0	10.746	1.148	1906.072	0.05%	99.23%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.496	1.128	1907.199	0.05%	99.29%
77.0	10.268	1.107	1908.306	0.05%	99.34%
78.0	10.026	1.086	1909.393	0.05%	99.40%
79.0	9.805	1.065	1910.458	0.05%	99.46%
80.0	9.583	1.045	1911.503	0.05%	99.51%
81.0	9.362	1.025	1912.528	0.05%	99.56%
82.0	9.147	1.004	1913.532	0.05%	99.62%
83.0	8.947	0.984	1914.515	0.05%	99.67%
84.0	8.753	0.964	1915.479	0.05%	99.72%
85.0	8.566	0.945	1916.425	0.05%	99.77%
86.0	8.386	0.927	1917.351	0.04%	99.81%
87.0	8.234	0.910	1918.261	0.04%	99.86%
88.0	8.095	0.894	1919.155	0.04%	99.91%
89.0	7.999	0.882	1920.037	0.04%	99.95%
90.0	7.950	0.874	1920.912	0.04%	100.00%

Zonal flux distribution table

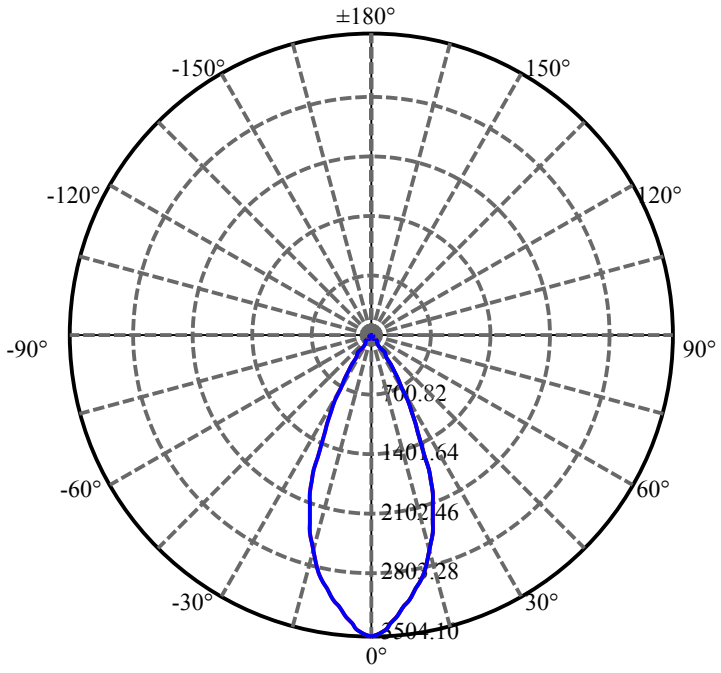
ZONAL LUMEN SUMMARY

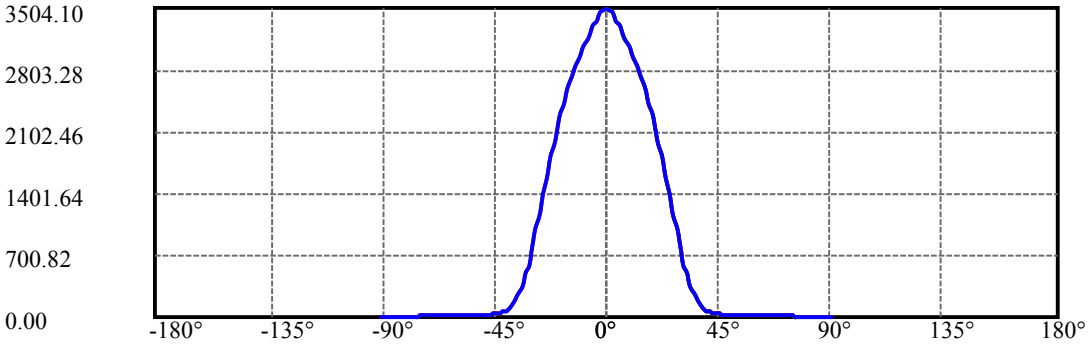
Zone	Lumens	%Lamp	%Fixt
0-30	1658.65	79.32%	86.35%
0-40	1842.54	88.11%	95.92%
0-60	1886.92	90.23%	98.23%
0-90	1920.04	91.82%	99.95%
0-120	1920.04	91.82%	99.95%
0-180	1920.91	91.86%	100.00%
60-90	33.12	1.58%	1.72%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.45	1536.73	73.49%	80.00%

ZONAL LUMEN SUMMARY

0-10	305.33
10-20	719.57
20-30	633.75
30-40	183.89
40-50	28.41
50-60	15.96
60-70	13.23
70-80	11.36
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):

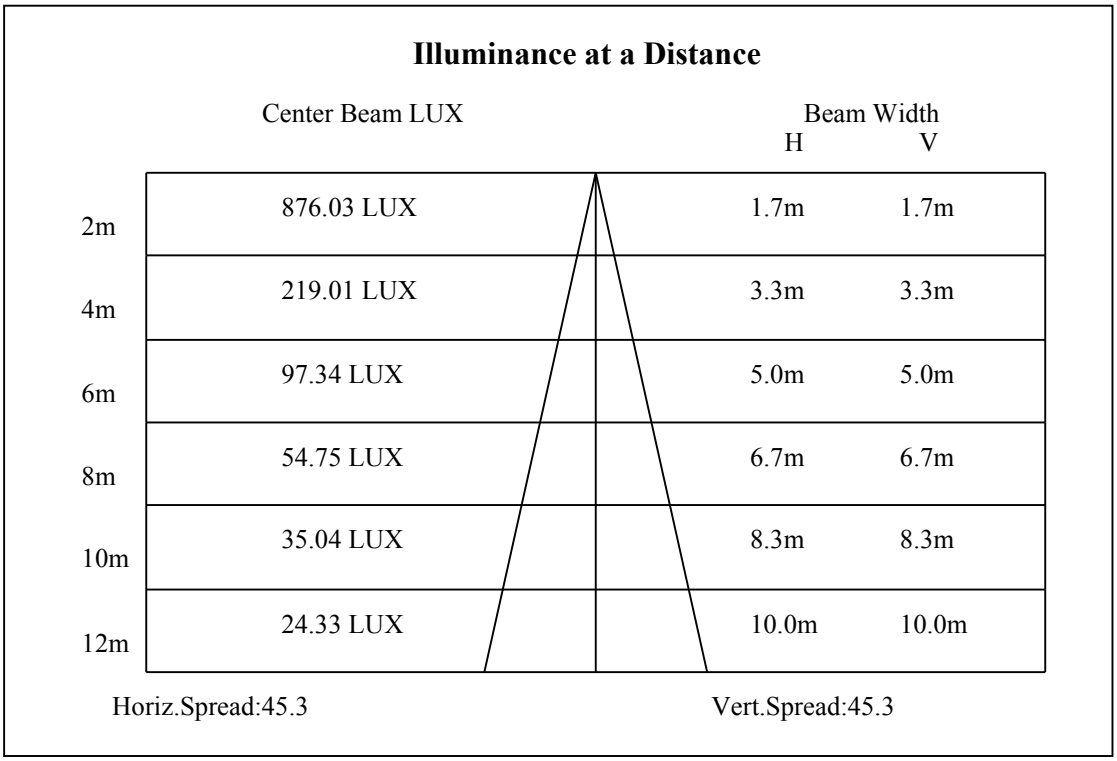
C0/C180:

C90/C270:

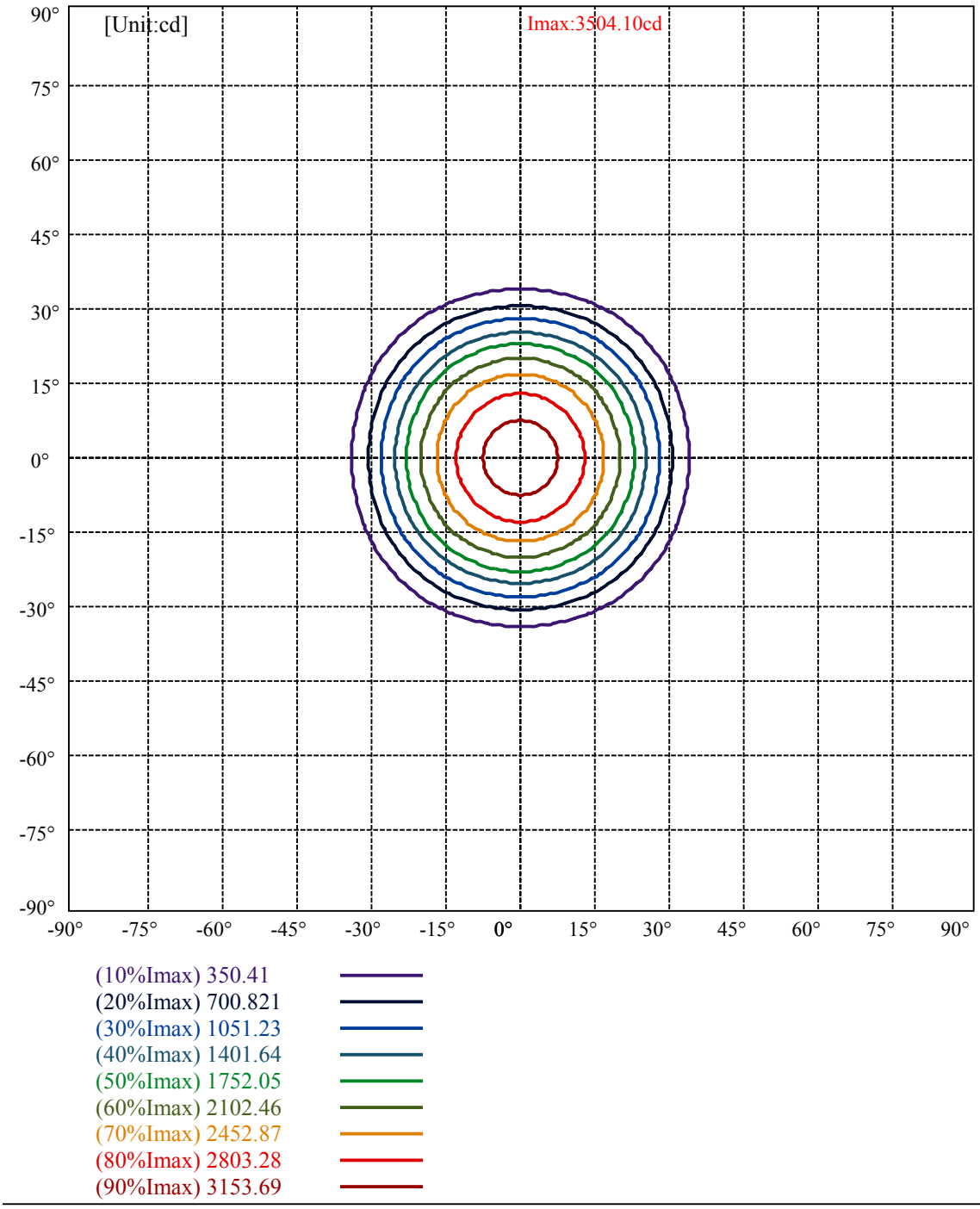
Field angle(10%Imax):C0/180Left:33.6 Right:33.6
:C90/270Left:33.6 Right:33.6

Beam Angle(50%Imax):C0/180Left:22.7 Right:22.7
:C90/270Left:22.7 Right:22.7

Lux distance Curve



ISO-Intensity(V-H)

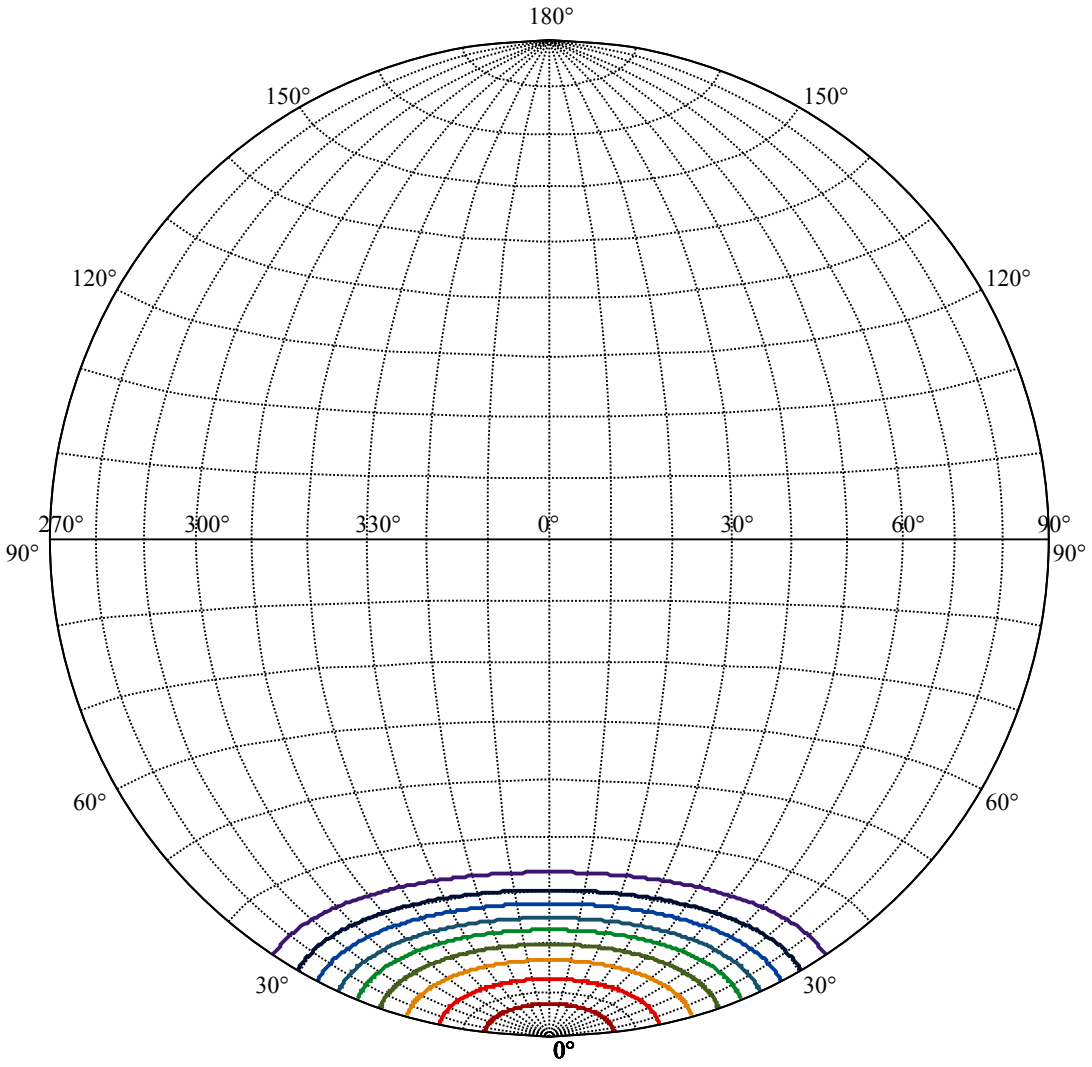


Equipment: GMS1980
Temperature(°C): 25.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



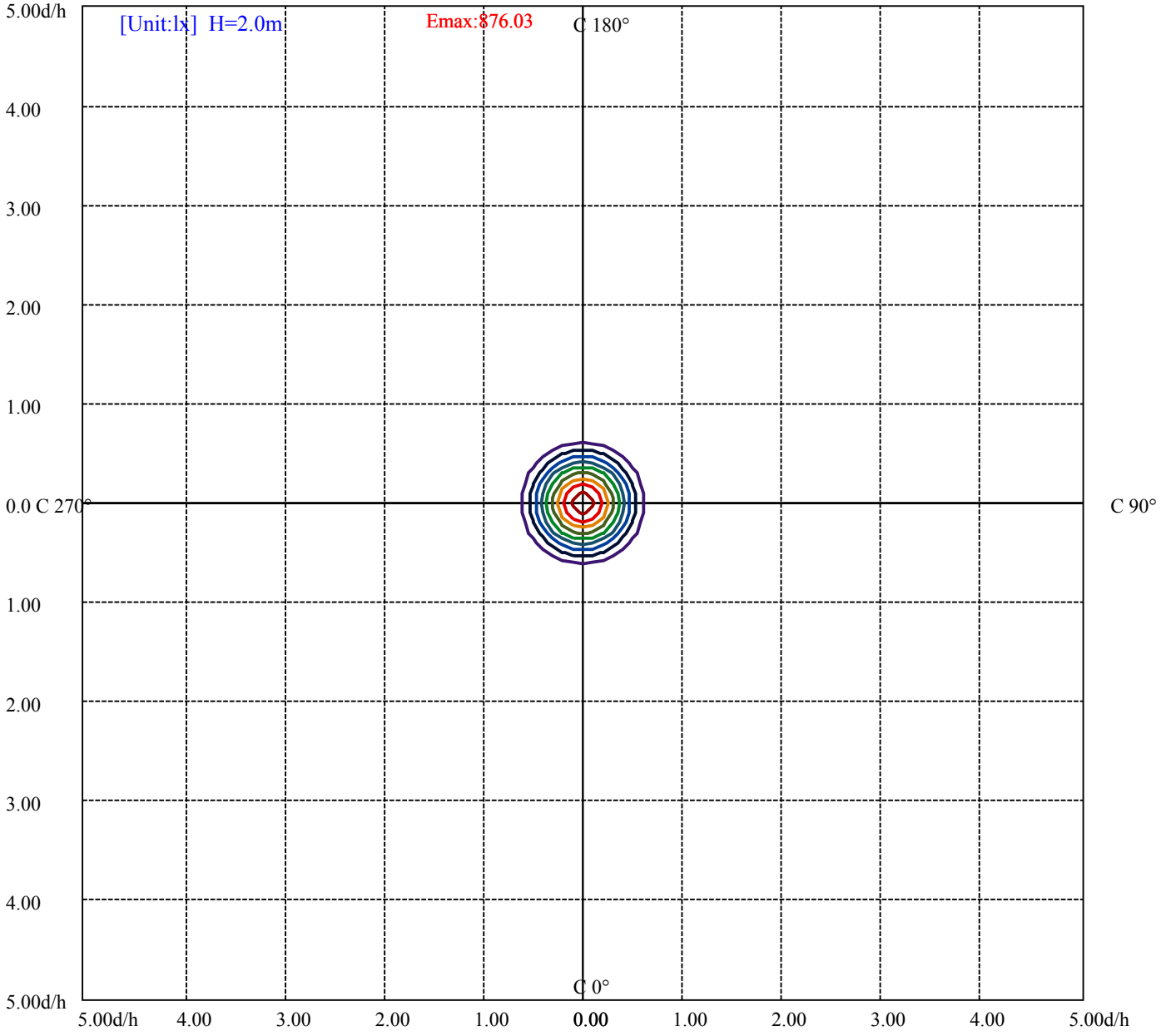
House [Unit:cd] Road

Imax:3504.10

(10%Imax) 350.41
(20%Imax) 700.821
(30%Imax) 1051.23
(40%Imax) 1401.64
(50%Imax) 1752.05
(60%Imax) 2102.46
(70%Imax) 2452.87
(80%Imax) 2803.28
(90%Imax) 3153.69

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

ISO illuminance diagram

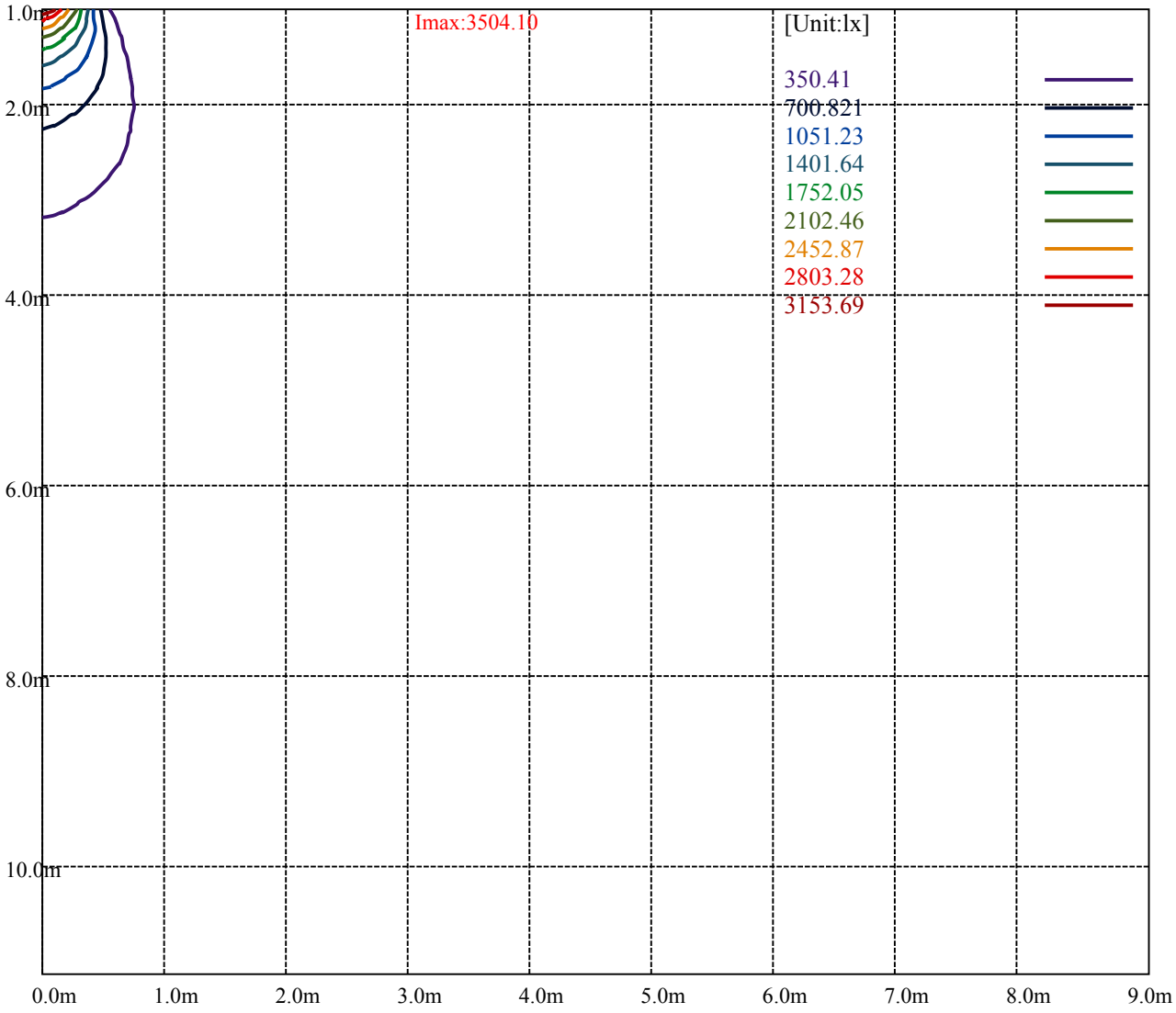


Equipment: GMS1980
Temperature(°C): 25.0

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

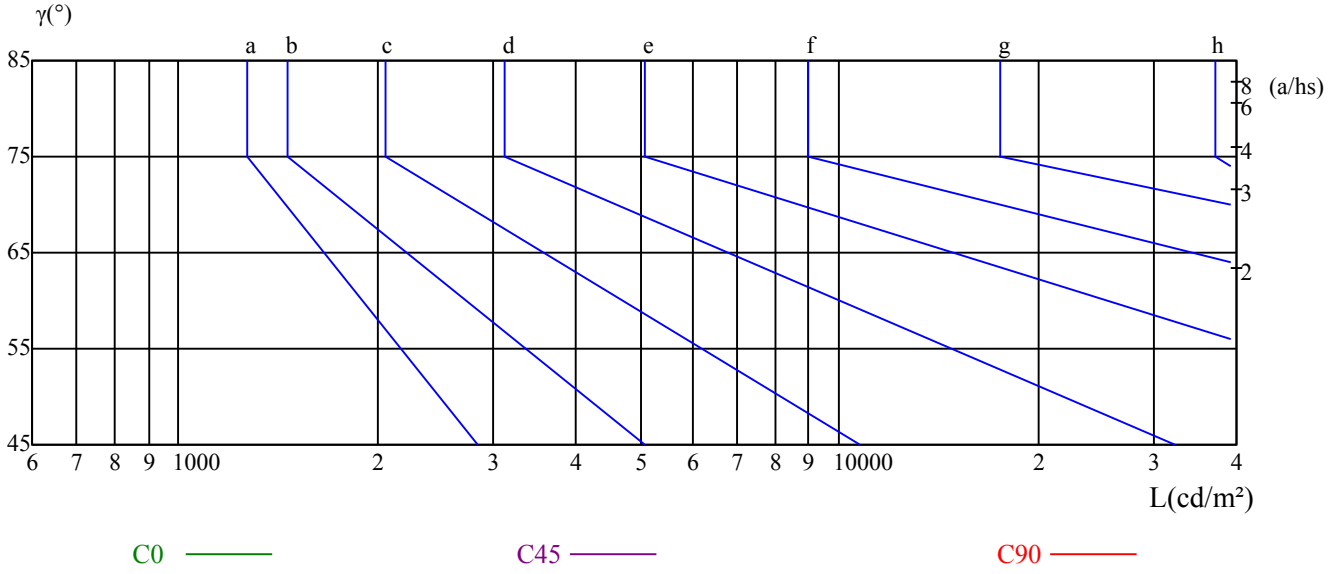
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

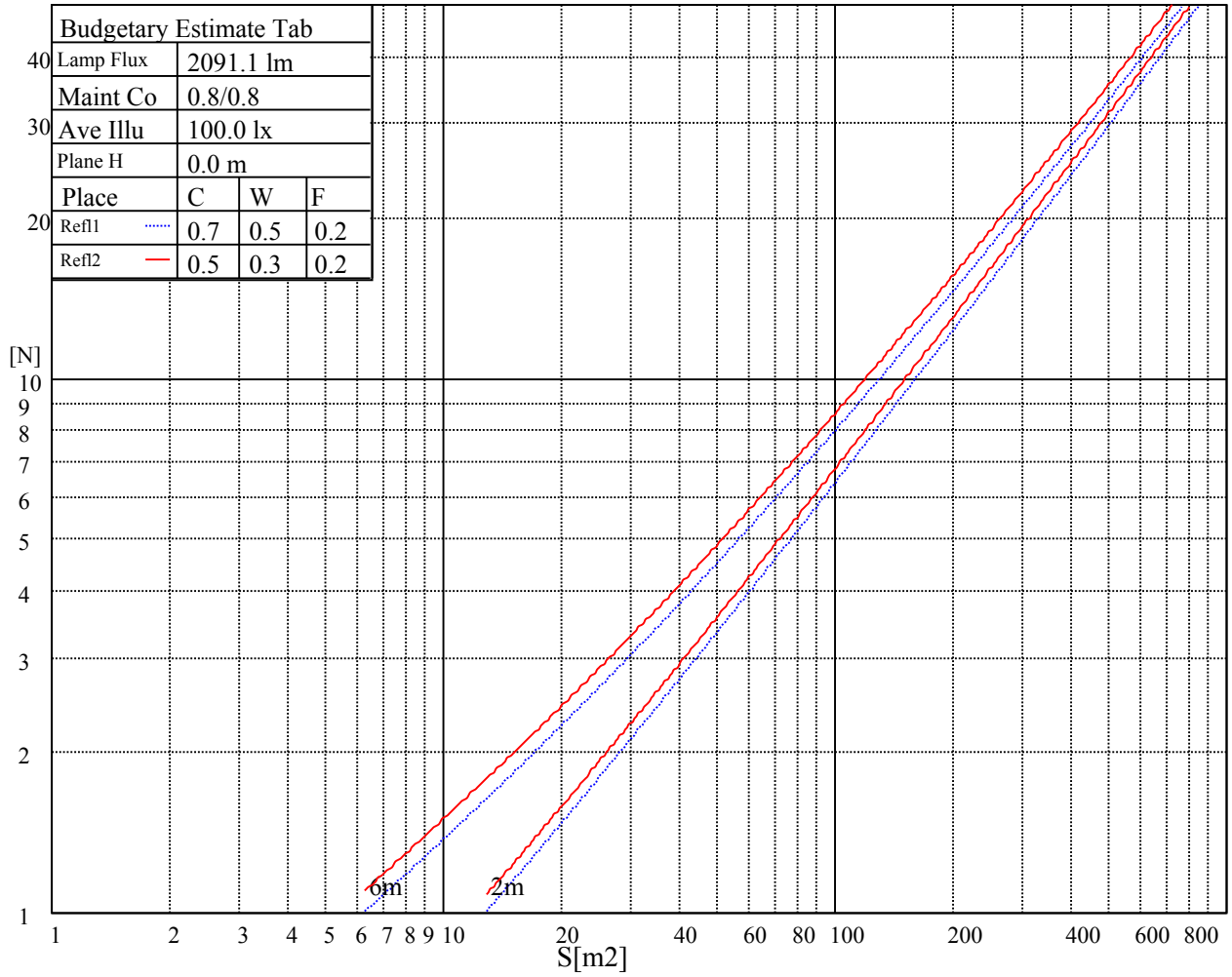
Luminance Limitting Curve



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

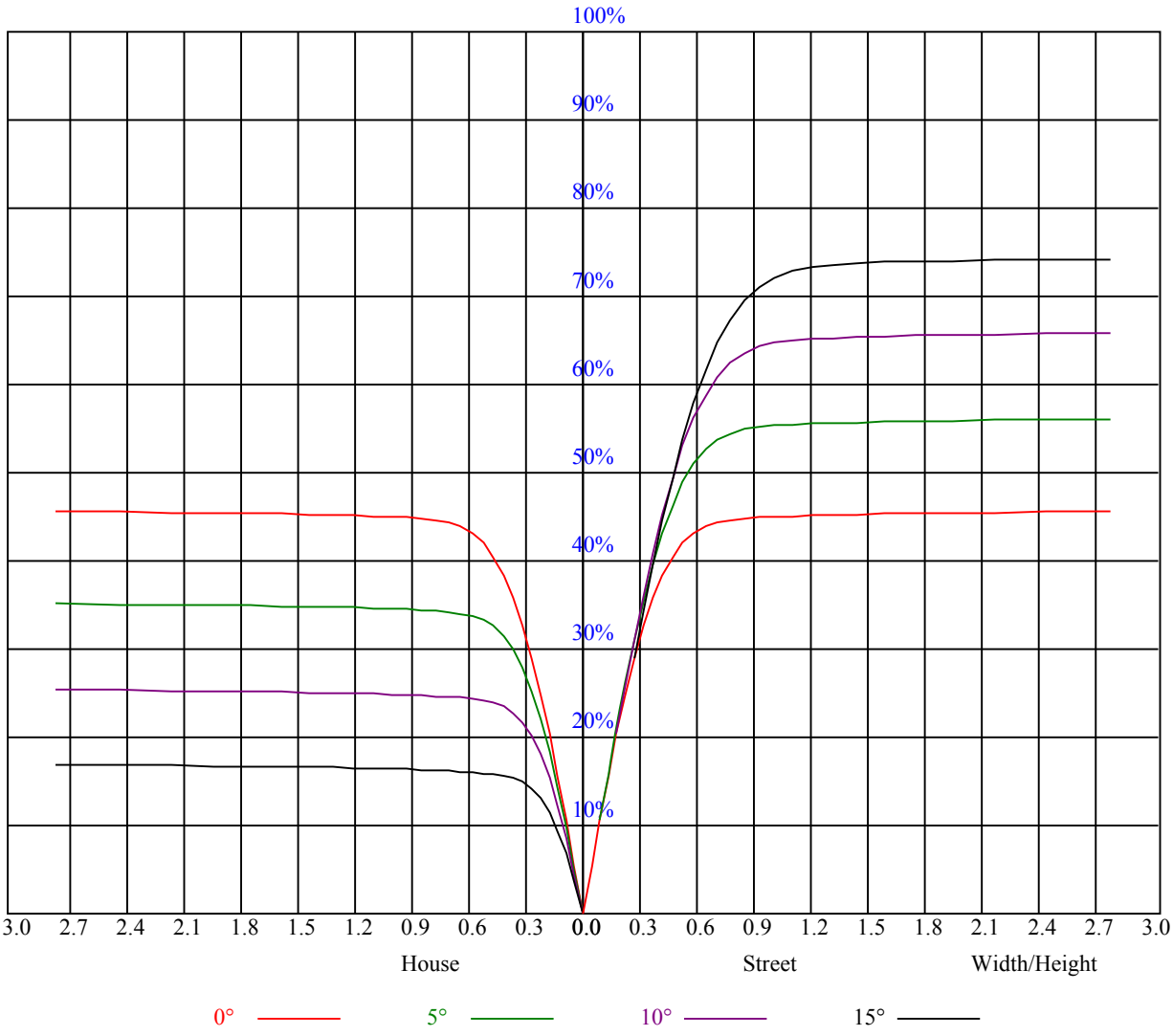


Equipment: GMS1980 Date: 2023/10/09 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.44

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	1.09	1.09	1.09	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	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.90	0.89	0.88	0.86
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.84	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	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.72	0.78	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.73	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.62
8	0.70	0.65	0.62	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.64	0.61	0.67	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.58	0.65	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.56	0.62	0.58	0.55	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	3478.92	3426.89	3385.92	3325.59	3274.11	3203.26	3149.56	3099.75	3047.71
45.0	3518.77	3491.65	3465.63	3441.28	3380.94	3333.89	3285.18	3209.90	3158.97
90.0	3507.70	3487.22	3457.88	3410.28	3367.66	3313.41	3242.56	3190.53	3130.19
135.0	3511.02	3496.63	3480.58	3451.80	3385.37	3333.89	3286.84	3219.86	3163.40
180.0	3478.92	3512.13	3497.74	3467.29	3437.40	3367.10	3314.52	3258.06	3197.72
225.0	3518.77	3484.45	3454.56	3399.21	3331.68	3284.63	3208.24	3147.35	3094.76
270.0	3507.70	3517.11	3494.97	3432.42	3387.58	3307.32	3249.75	3188.87	3118.01
315.0	3511.02	3476.15	3427.44	3366.55	3304.00	3251.97	3180.56	3120.23	3077.05
360.0	3478.92	3426.89	3385.92	3325.59	3274.11	3203.26	3149.56	3099.75	3047.71

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2964.13	2907.67	2840.14	2754.89	2676.29	2594.92	2473.70	2363.54	2262.80
45.0	3099.19	3037.20	2965.79	2888.30	2819.66	2745.48	2640.31	2540.67	2420.56
90.0	3065.98	2979.63	2909.33	2830.73	2751.02	2667.99	2560.60	2469.27	2372.95
135.0	3110.26	3052.70	2985.72	2905.46	2839.03	2743.27	2663.01	2575.55	2454.32
180.0	3139.60	3084.25	3018.93	2956.38	2879.99	2817.44	2742.16	2638.10	2543.44
225.0	3038.30	2954.17	2893.83	2829.07	2763.75	2691.24	2589.39	2504.70	2401.18
270.0	3067.64	3014.50	2949.74	2867.26	2804.16	2740.50	2664.11	2568.35	2479.23
315.0	3017.27	2938.11	2874.46	2819.66	2755.45	2677.95	2580.53	2488.64	2362.44
360.0	2964.13	2907.67	2840.14	2754.89	2676.29	2594.92	2473.70	2363.54	2262.80

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2127.18	2013.71	1893.59	1744.69	1625.13	1496.71	1269.76	1104.42	1069.38
45.0	2324.80	2227.37	2096.74	1986.03	1870.34	1751.89	1596.34	1465.15	1297.99
90.0	2248.41	2143.24	2028.65	1907.98	1756.31	1629.00	1502.79	1266.44	1087.03
135.0	2359.12	2256.71	2116.67	2001.53	1882.52	1764.62	1602.43	1469.03	1336.73
180.0	2458.20	2331.44	2227.37	2119.43	1976.07	1851.52	1720.89	1565.34	1440.25
225.0	2309.30	2209.11	2076.81	1971.09	1862.59	1712.59	1591.91	1465.71	1100.10
270.0	2405.61	2278.30	2180.88	2082.35	1952.82	1837.68	1710.92	1570.88	1441.35
315.0	2259.48	2149.32	2001.53	1883.07	1765.72	1614.06	1489.51	1270.86	1103.42
360.0	2127.18	2013.71	1893.59	1744.69	1625.13	1496.71	1269.76	1104.42	1069.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	939.52	811.15	666.51	560.73	446.15	366.72	296.97	225.12	177.91
45.0	1155.17	1012.36	875.64	747.77	601.08	500.34	411.78	333.73	282.80
90.0	1050.61	910.79	743.84	620.46	488.61	397.99	321.05	257.23	191.91
135.0	1197.24	1028.97	895.01	768.25	629.87	527.46	416.20	339.26	288.89
180.0	1307.95	1172.33	1000.74	871.21	745.00	629.32	502.56	415.65	343.14
225.0	1100.10	1030.57	891.03	755.13	600.86	493.20	379.73	307.32	247.93
270.0	1318.47	1175.66	1006.27	861.25	720.65	598.32	461.04	371.92	298.85
315.0	1070.65	940.79	809.38	682.45	542.69	447.92	366.88	283.30	228.67
360.0	939.52	811.15	666.51	560.73	446.15	366.72	296.97	225.12	177.91

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	139.99	109.88	81.15	64.93	53.25	45.22	38.58	34.76	31.66
45.0	282.80	154.33	114.31	90.56	72.73	57.12	48.88	41.79	37.36
90.0	151.78	120.39	96.20	73.90	60.83	51.59	44.67	38.25	34.49
135.0	288.89	155.99	121.22	95.37	76.72	60.11	50.59	43.73	38.75
180.0	280.03	280.03	162.52	121.34	93.88	75.17	60.94	48.32	41.96
225.0	186.60	148.40	117.68	88.12	70.52	57.84	48.82	42.29	36.31
270.0	282.25	210.62	135.39	102.46	82.53	64.38	54.19	46.50	40.85
315.0	171.71	136.17	107.50	80.59	64.76	53.58	45.61	38.80	34.87
360.0	139.99	109.88	81.15	64.93	53.25	45.22	38.58	34.76	31.66

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	28.45	26.40	24.63	22.81	21.59	20.20	19.32	18.54	17.88
45.0	33.71	30.72	27.73	25.74	24.08	22.64	21.03	20.04	19.15
90.0	30.78	28.45	26.46	24.41	23.08	21.86	20.48	19.60	18.82
135.0	34.04	31.05	28.56	26.02	24.36	22.53	21.37	20.37	19.32
180.0	36.98	33.43	29.67	27.29	25.35	23.36	21.98	20.59	19.65
225.0	32.77	30.00	27.07	25.19	23.58	21.92	20.76	19.54	18.71
270.0	35.48	32.11	29.45	27.18	24.91	23.41	22.14	20.76	19.76
315.0	31.77	29.28	27.12	24.91	23.47	21.86	20.76	19.76	18.71
360.0	28.45	26.40	24.63	22.81	21.59	20.20	19.32	18.54	17.88

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.21	16.55	16.05	15.61	15.22	14.78	14.45	14.17	13.78
45.0	18.38	17.55	16.94	16.33	15.83	15.39	14.95	14.56	14.23
90.0	18.05	17.27	16.66	16.16	15.72	15.17	14.78	14.39	14.06
135.0	18.60	17.93	17.33	16.77	16.16	15.72	15.33	14.89	14.50
180.0	18.82	17.93	17.27	16.72	16.22	15.78	15.22	14.89	14.56
225.0	17.99	17.38	16.66	16.11	15.67	15.22	14.72	14.39	14.00
270.0	18.93	18.05	17.38	16.77	16.16	15.72	15.28	14.89	14.45
315.0	17.99	17.38	16.66	16.22	15.72	15.33	14.83	14.56	14.23
360.0	17.21	16.55	16.05	15.61	15.22	14.78	14.45	14.17	13.78

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.51	13.17	12.95	12.68	12.40	12.07	11.85	11.62	11.35
45.0	13.95	13.56	13.28	13.06	12.79	12.45	12.23	12.01	11.68
90.0	13.73	13.40	13.17	12.84	12.62	12.29	12.07	11.79	11.51
135.0	14.23	13.84	13.56	13.23	13.01	12.73	12.45	12.12	11.90
180.0	14.12	13.84	13.51	13.17	12.90	12.68	12.40	12.18	11.90
225.0	13.73	13.40	13.12	12.79	12.57	12.34	12.07	11.79	11.62
270.0	14.12	13.78	13.51	13.17	12.95	12.68	12.34	12.18	11.85
315.0	13.89	13.62	13.34	13.06	12.73	12.51	12.18	11.96	11.73
360.0	13.51	13.17	12.95	12.68	12.40	12.07	11.85	11.62	11.35

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.13	10.90	10.68	10.41	10.24	9.96	9.74	9.52	9.30
45.0	11.46	11.18	10.90	10.68	10.41	10.24	10.02	9.80	9.58
90.0	11.29	11.07	10.79	10.63	10.30	10.07	9.80	9.58	9.41
135.0	11.62	11.40	11.13	10.90	10.68	10.46	10.19	9.96	9.69
180.0	11.68	11.40	11.24	11.02	10.74	10.52	10.30	10.07	9.80
225.0	11.35	11.07	10.85	10.68	10.41	10.19	9.91	9.74	9.52
270.0	11.62	11.40	11.18	10.90	10.68	10.46	10.24	9.96	9.74
315.0	11.51	11.24	11.02	10.74	10.52	10.24	10.02	9.80	9.63
360.0	11.13	10.90	10.68	10.41	10.24	9.96	9.74	9.52	9.30

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.08	8.91	8.75	8.58	8.41	8.19	8.08	7.97	7.97
45.0	9.30	9.08	8.91	8.75	8.52	8.30	8.19	8.03	7.92
90.0	9.19	9.02	8.80	8.64	8.41	8.25	8.19	8.03	7.97
135.0	9.52	9.30	9.02	8.86	8.69	8.47	8.30	8.14	8.03
180.0	9.63	9.35	9.19	8.91	8.75	8.58	8.36	8.25	8.08
225.0	9.30	9.13	8.91	8.69	8.52	8.36	8.19	8.08	7.97
270.0	9.52	9.24	9.08	8.86	8.64	8.52	8.30	8.19	8.03
315.0	9.35	9.13	8.91	8.75	8.58	8.41	8.25	8.08	8.03
360.0	9.08	8.91	8.75	8.58	8.41	8.19	8.08	7.97	7.97

Intensity data(cd)

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