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NT

Client:
LumCAT: 1-1380-L
Luminaire: 92.70.427.00
Report No: 20231110-B012
Ballast type: AC

Test No: 20231110-C012	Voltage(V): 34.720
LampCAT: Fortimo_SLM_C_1204	Current(A): 0.320
Lamp flux(lm): 1750.7	Power (W): 11.110
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1640.18, Efficiency(%): 93.69% , Luminous Efficacy(lm/W): 147.63
Central intensity(cd): 2265.623, Maximum intensity(cd): 2265.623
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=53.0
[C90/270]Total=53.0
Field angle(10%Imax): [C0/180]Total=72.4
[C90/270]Total=72.4
Beam angle of C0 plane : 53.06
Aveage BeamAngle(IEC 61341):53.06
Maximum s/h(1/2): C0_180=0.88 C90_270=0.88
Maximum s/h(1/4): C0_180=0.78 C90_270=0.78
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 93.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.049%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2265.623	0.000	0	0.00%	0.00%
1.0	2260.157	2.166	2.166	0.12%	0.13%
2.0	2247.633	6.470	8.636	0.37%	0.53%
3.0	2243.551	10.741	19.377	0.61%	1.18%
4.0	2242.167	15.015	34.392	0.86%	2.10%
5.0	2236.009	19.265	53.657	1.10%	3.27%
6.0	2226.668	23.453	77.11	1.34%	4.70%
7.0	2216.012	27.576	104.685	1.58%	6.38%
8.0	2200.652	31.609	136.294	1.81%	8.31%
9.0	2182.869	35.526	171.82	2.03%	10.48%
10.0	2159.828	39.300	211.12	2.24%	12.87%
11.0	2139.209	42.956	254.076	2.45%	15.49%
12.0	2118.382	46.542	300.618	2.66%	18.33%
13.0	2095.964	50.014	350.632	2.86%	21.38%
14.0	2070.155	53.326	403.958	3.05%	24.63%
15.0	2043.447	56.473	460.431	3.23%	28.07%
16.0	2010.789	59.406	519.837	3.39%	31.69%
17.0	1978.130	62.118	581.955	3.55%	35.48%
18.0	1938.345	64.574	646.529	3.69%	39.42%
19.0	1888.457	66.579	713.108	3.80%	43.48%
20.0	1827.776	68.017	781.125	3.89%	47.62%
21.0	1755.747	68.811	849.936	3.93%	51.82%
22.0	1667.596	68.794	918.73	3.93%	56.01%
23.0	1574.533	68.029	986.758	3.89%	60.16%
24.0	1436.883	65.840	1052.599	3.76%	64.18%
25.0	1316.329	62.602	1115.201	3.58%	67.99%
26.0	1183.951	59.019	1174.22	3.37%	71.59%
27.0	1087.850	55.580	1229.8	3.17%	74.98%
28.0	963.153	51.927	1281.727	2.97%	78.15%
29.0	829.515	46.901	1328.628	2.68%	81.00%
30.0	704.900	41.429	1370.057	2.37%	83.53%
31.0	585.060	35.898	1405.955	2.05%	85.72%
32.0	483.735	30.620	1436.575	1.75%	87.59%
33.0	394.408	25.870	1462.445	1.48%	89.16%
34.0	321.715	21.672	1484.117	1.24%	90.48%
35.0	266.002	18.252	1502.37	1.04%	91.60%
36.0	235.599	15.971	1518.341	0.91%	92.57%
37.0	186.154	13.755	1532.096	0.79%	93.41%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	131.956	10.618	1542.714	0.61%	94.06%
39.0	105.974	8.121	1550.835	0.46%	94.55%
40.0	87.341	6.742	1557.577	0.39%	94.96%
41.0	72.479	5.691	1563.268	0.33%	95.31%
42.0	60.647	4.837	1568.105	0.28%	95.61%
43.0	51.832	4.167	1572.272	0.24%	95.86%
44.0	44.892	3.651	1575.922	0.21%	96.08%
45.0	39.287	3.235	1579.157	0.18%	96.28%
46.0	34.956	2.903	1582.061	0.17%	96.46%
47.0	31.531	2.644	1584.705	0.15%	96.62%
48.0	28.666	2.433	1587.139	0.14%	96.77%
49.0	26.251	2.255	1589.394	0.13%	96.90%
50.0	24.397	2.112	1591.506	0.12%	97.03%
51.0	22.695	1.992	1593.498	0.11%	97.15%
52.0	21.304	1.888	1595.386	0.11%	97.27%
53.0	20.100	1.801	1597.187	0.10%	97.38%
54.0	19.055	1.726	1598.913	0.10%	97.48%
55.0	18.191	1.663	1600.576	0.09%	97.59%
56.0	17.388	1.608	1602.183	0.09%	97.68%
57.0	16.724	1.560	1603.743	0.09%	97.78%
58.0	16.094	1.518	1605.26	0.09%	97.87%
59.0	15.527	1.478	1606.739	0.08%	97.96%
60.0	15.001	1.442	1608.181	0.08%	98.05%
61.0	14.537	1.410	1609.591	0.08%	98.13%
62.0	14.101	1.380	1610.971	0.08%	98.22%
63.0	13.693	1.352	1612.322	0.08%	98.30%
64.0	13.319	1.325	1613.648	0.08%	98.38%
65.0	12.967	1.301	1614.949	0.07%	98.46%
66.0	12.621	1.277	1616.225	0.07%	98.54%
67.0	12.288	1.253	1617.478	0.07%	98.62%
68.0	11.991	1.230	1618.708	0.07%	98.69%
69.0	11.707	1.209	1619.917	0.07%	98.76%
70.0	11.410	1.187	1621.104	0.07%	98.84%
71.0	11.133	1.165	1622.269	0.07%	98.91%
72.0	10.842	1.143	1623.412	0.07%	98.98%
73.0	10.579	1.120	1624.532	0.06%	99.05%
74.0	10.296	1.097	1625.629	0.06%	99.11%
75.0	10.012	1.073	1626.702	0.06%	99.18%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.770	1.050	1627.753	0.06%	99.24%
77.0	9.521	1.028	1628.781	0.06%	99.30%
78.0	9.237	1.004	1629.785	0.06%	99.37%
79.0	9.002	0.980	1630.765	0.06%	99.43%
80.0	8.753	0.957	1631.722	0.05%	99.48%
81.0	8.511	0.934	1632.656	0.05%	99.54%
82.0	8.317	0.913	1633.568	0.05%	99.60%
83.0	8.095	0.892	1634.461	0.05%	99.65%
84.0	7.888	0.871	1635.331	0.05%	99.70%
85.0	7.687	0.850	1636.181	0.05%	99.76%
86.0	7.514	0.831	1637.012	0.05%	99.81%
87.0	7.369	0.815	1637.827	0.05%	99.86%
88.0	7.217	0.799	1638.626	0.05%	99.90%
89.0	7.085	0.784	1639.41	0.04%	99.95%
90.0	7.044	0.775	1640.184	0.04%	100.00%

Zonal flux distribution table

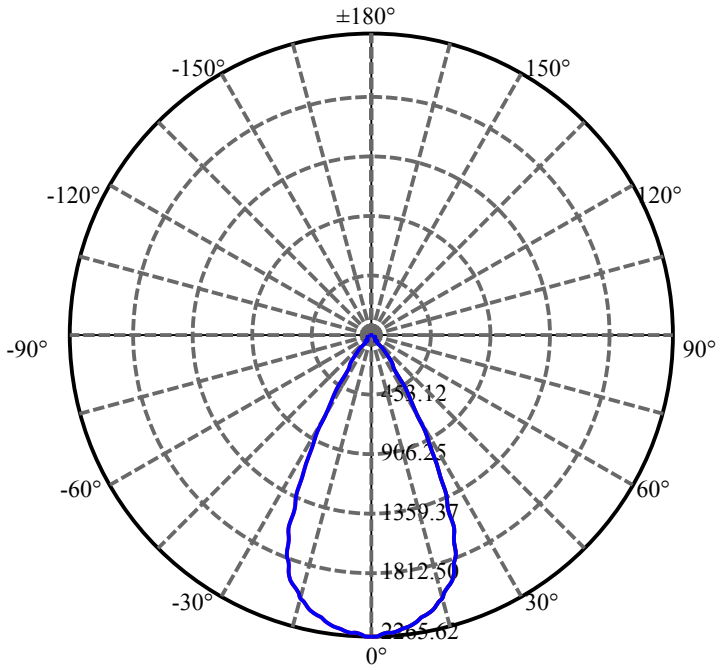
ZONAL LUMEN SUMMARY

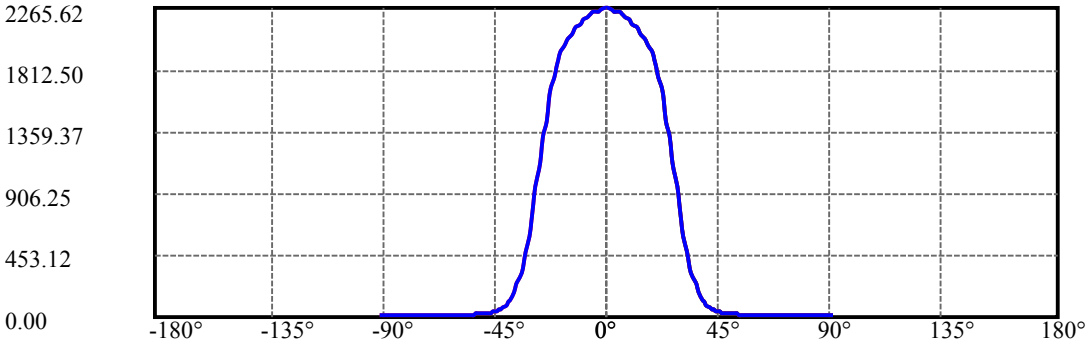
Zone	Lumens	%Lamp	%Fixt
0-30	1370.06	78.26%	83.53%
0-40	1557.58	88.97%	94.96%
0-60	1608.18	91.86%	98.05%
0-90	1639.41	93.65%	99.95%
0-120	1639.41	93.65%	99.95%
0-180	1640.18	93.69%	100.00%
60-90	31.23	1.78%	1.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.65	1312.15	74.95%	80.00%

ZONAL LUMEN SUMMARY

0-10	211.12
10-20	570.00
20-30	588.93
30-40	187.52
40-50	33.93
50-60	16.68
60-70	12.92
70-80	10.62
80-90	7.69
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:36.2 Right:36.2
:C90/270Left:36.2 Right:36.2

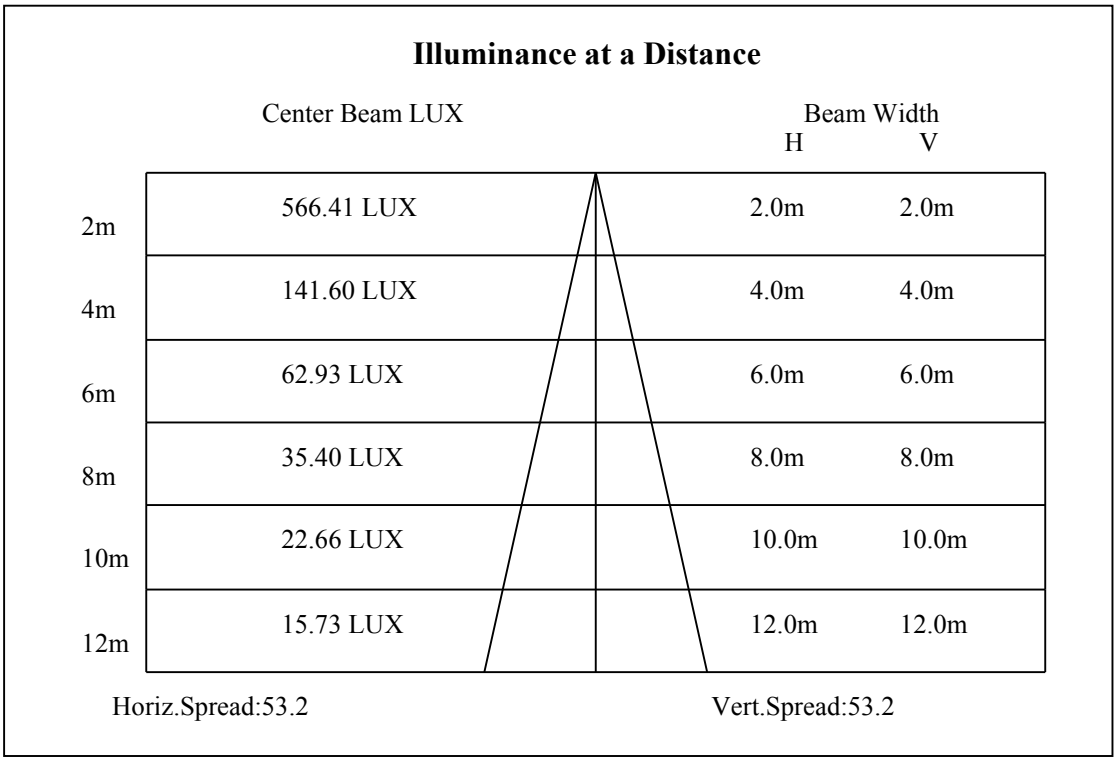
Beam Angle(50%Imax):C0/180Left:26.5 Right:26.5
:C90/270Left:26.5 Right:26.5

Equipment: GMS1980
Temperature(°C): 0.0

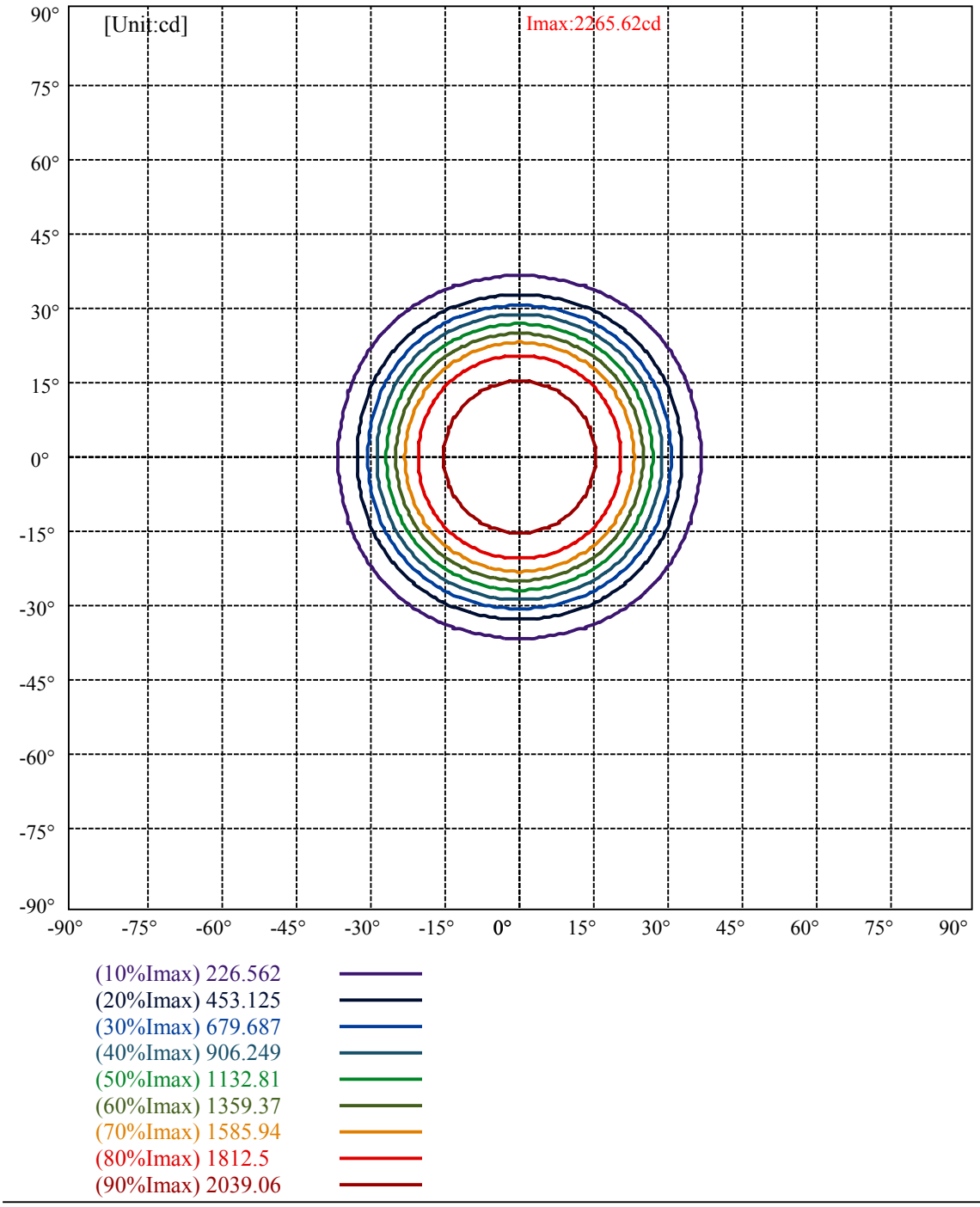
Date: 2023/11/10
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Lux distance Curve



ISO-Intensity(V-H)



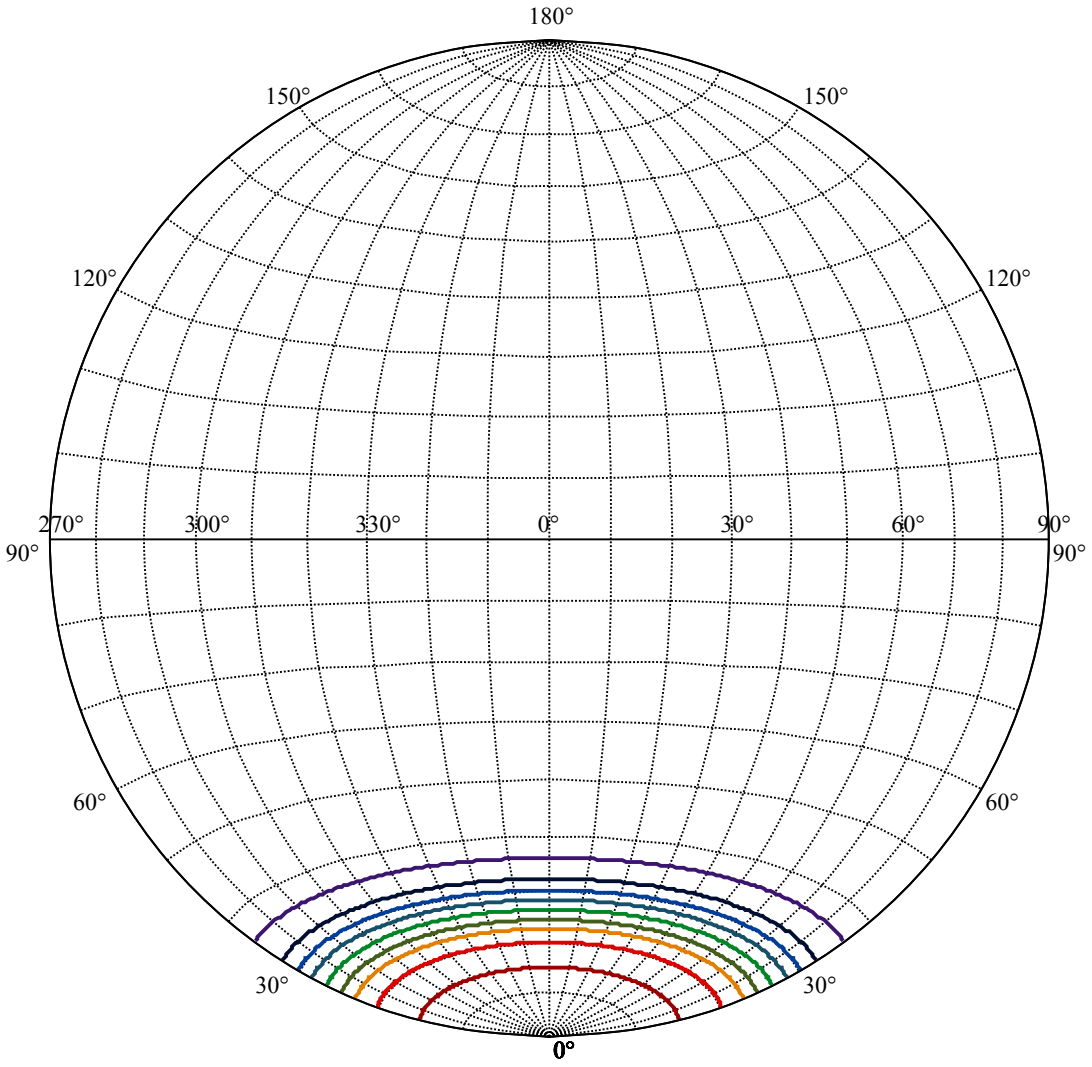
(10%Imax) 226.562
(20%Imax) 453.125
(30%Imax) 679.687
(40%Imax) 906.249
(50%Imax) 1132.81
(60%Imax) 1359.37
(70%Imax) 1585.94
(80%Imax) 1812.5
(90%Imax) 2039.06

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/10
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



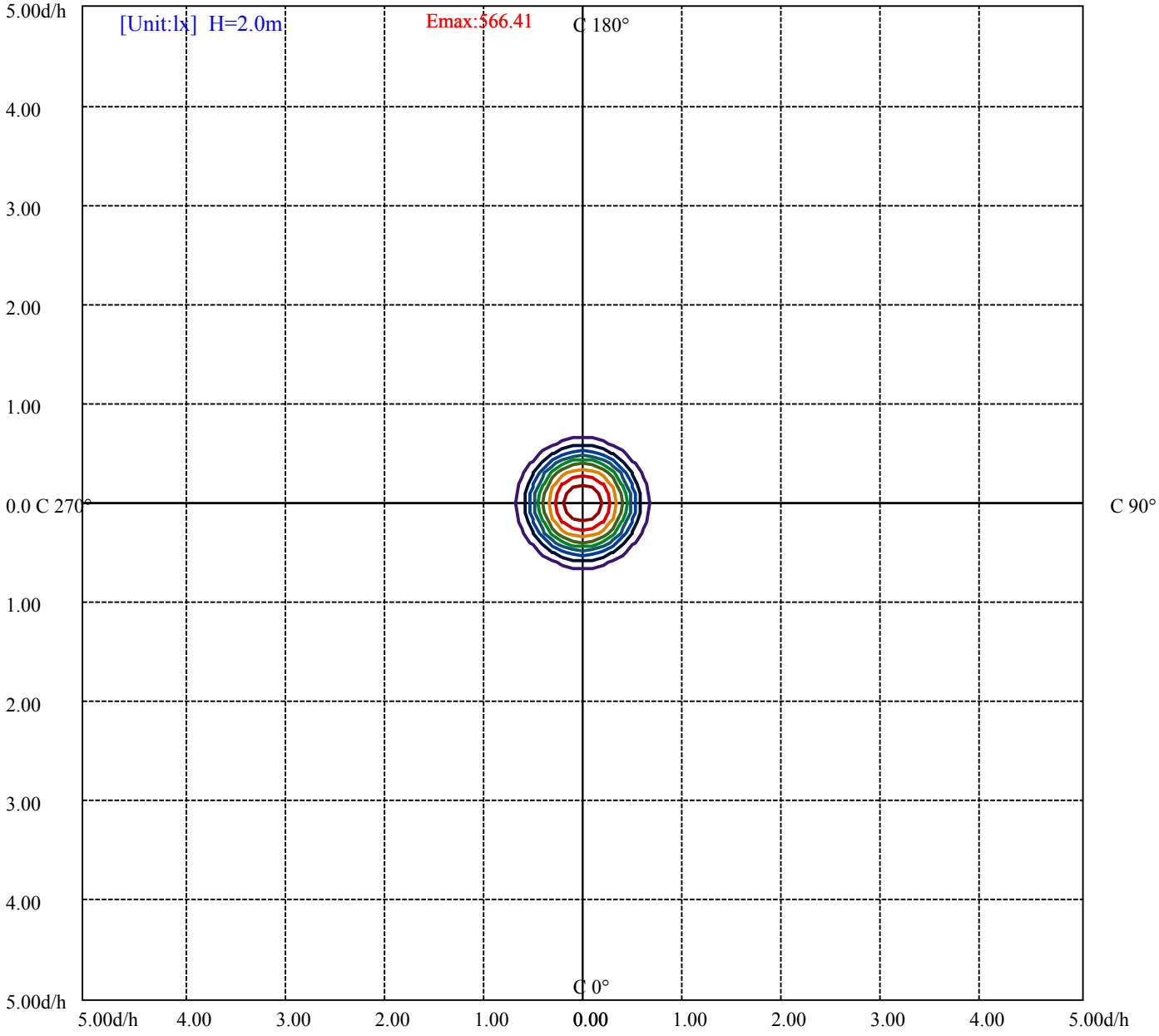
[Unit:cd]

Imax:2265.62

(10%Imax) 226.562
(20%Imax) 453.125
(30%Imax) 679.687
(40%Imax) 906.249
(50%Imax) 1132.81
(60%Imax) 1359.37
(70%Imax) 1585.94
(80%Imax) 1812.5
(90%Imax) 2039.06

NT 1-1380-L

ISO illuminance diagram



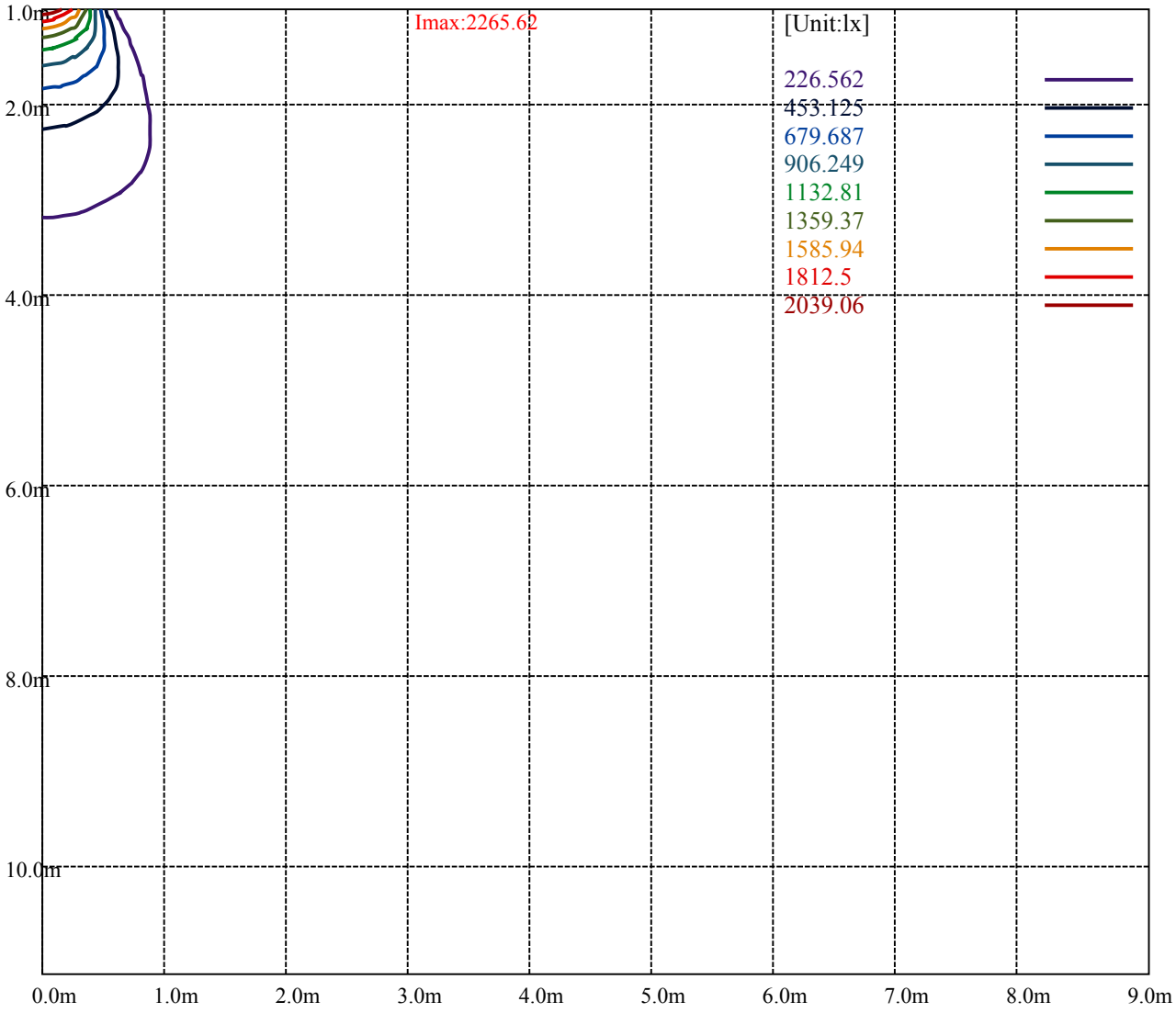
(10%Emax) 56.6405
(20%Emax) 113.281
(30%Emax) 169.9218
(40%Emax) 226.5623
(50%Emax) 283.2025
(60%Emax) 339.8425
(70%Emax) 396.485
(80%Emax) 453.125
(90%Emax) 509.765

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/10
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/10
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Luminance Limitting Curve(no luminous side)

Luminance Table

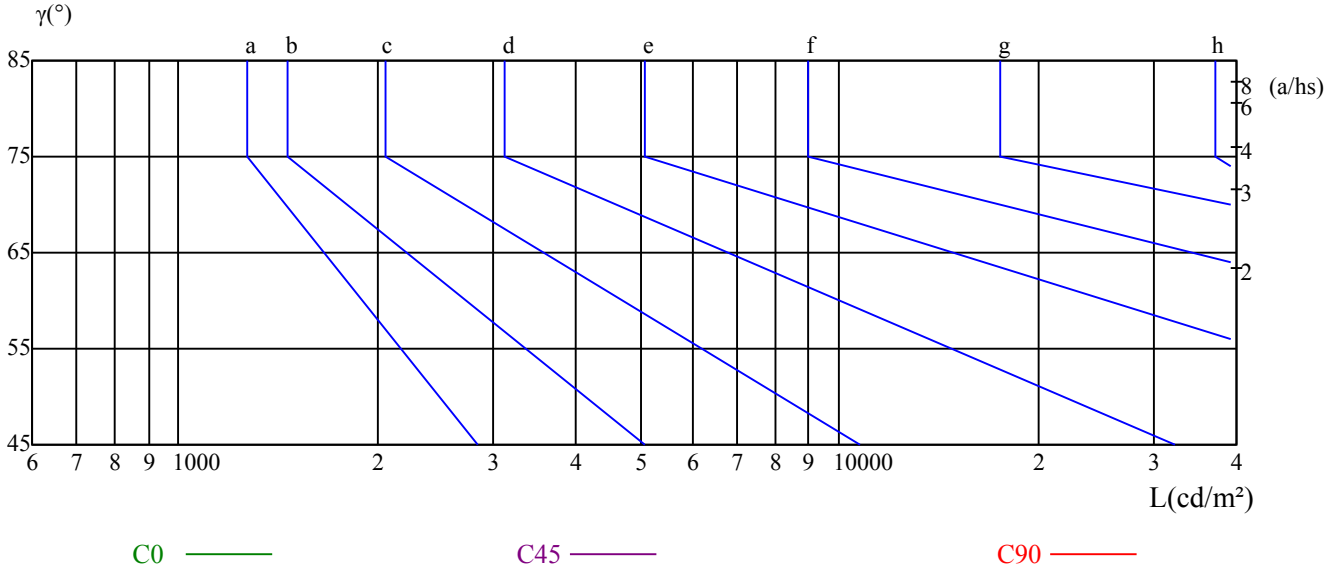
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

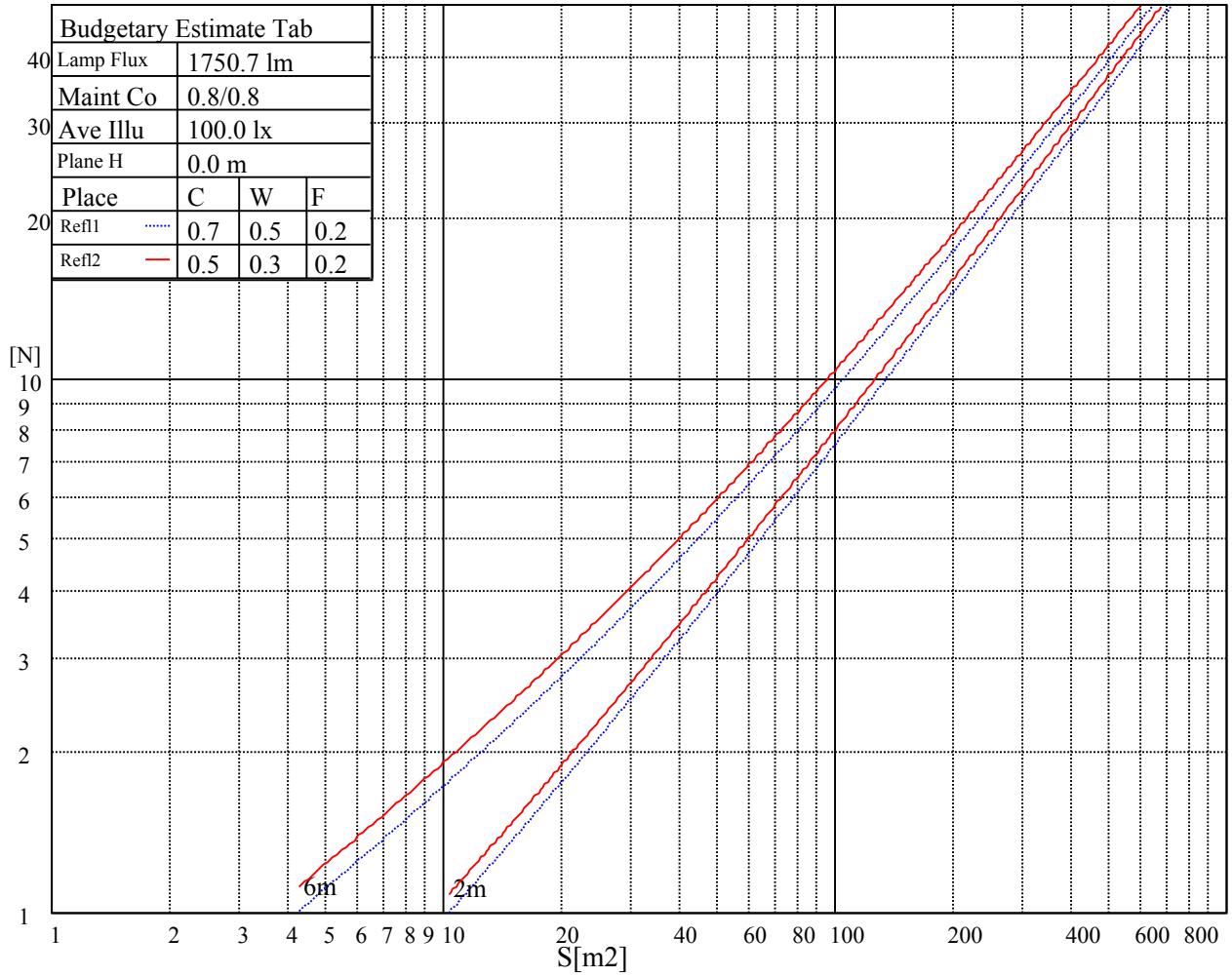
Luminance Limitting Curve



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

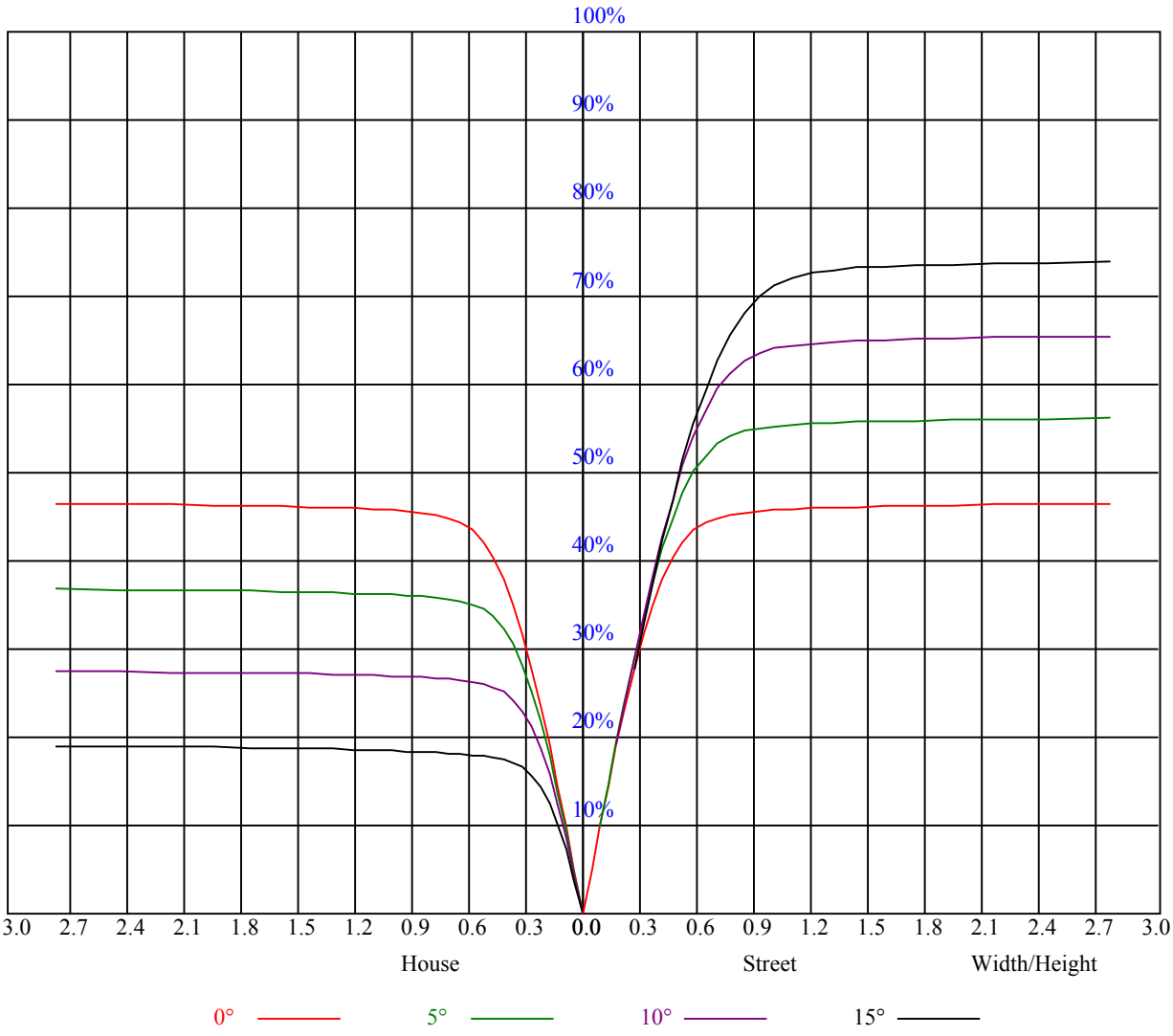


Equipment: GMS1980 Date: 2023/11/10 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.96	0.96	0.96	0.94
1	1.04	1.02	1.00	1.02	1.00	0.98	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88
2	0.97	0.94	0.90	0.96	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.82
3	0.91	0.87	0.83	0.90	0.86	0.83	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	0.78	0.75	0.79	0.77	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.79	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.70	0.67	0.73	0.70	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	0.61
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	0.59	0.58
9	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.55
10	0.63	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.53

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/10	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	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	2260.09	2244.03	2242.37	2241.82	2239.05	2225.77	2215.25	2203.07	2182.59
45.0	2275.03	2257.87	2237.39	2240.71	2236.29	2227.43	2222.45	2213.04	2190.90
90.0	2252.34	2241.82	2249.57	2251.78	2236.29	2226.88	2211.38	2187.02	2161.00
135.0	2275.03	2258.43	2244.03	2246.25	2247.91	2242.37	2229.09	2216.91	2199.20
180.0	2260.09	2274.48	2265.62	2252.89	2247.91	2247.36	2241.82	2234.07	2222.45
225.0	2275.03	2267.28	2245.70	2246.25	2252.34	2245.70	2233.52	2220.79	2209.72
270.0	2252.34	2276.14	2268.39	2240.16	2239.05	2244.03	2236.84	2232.96	2231.86
315.0	2275.03	2261.19	2227.98	2228.54	2238.50	2228.54	2223.00	2220.23	2207.50
360.0	2260.09	2244.03	2242.37	2241.82	2239.05	2225.77	2215.25	2203.07	2182.59

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2157.13	2134.43	2114.51	2090.71	2054.17	2024.83	1994.94	1958.41	1909.15
45.0	2171.52	2133.88	2112.29	2090.15	2056.39	2033.14	2011.55	1984.43	1957.30
90.0	2128.35	2106.20	2082.40	2058.60	2035.35	2010.44	1985.53	1954.54	1918.00
135.0	2181.49	2161.00	2146.06	2121.70	2101.22	2076.31	2046.42	2017.64	1987.19
180.0	2213.04	2200.31	2179.82	2158.24	2144.95	2128.35	2103.99	2071.33	2041.44
225.0	2195.88	2172.08	2154.36	2140.52	2117.83	2086.83	2061.37	2035.35	2012.10
270.0	2221.89	2206.95	2184.81	2160.45	2146.06	2122.26	2099.56	2066.35	2038.67
315.0	2193.66	2163.77	2139.42	2126.69	2111.74	2079.08	2044.21	1998.26	1961.18
360.0	2157.13	2134.43	2114.51	2090.71	2054.17	2024.83	1994.94	1958.41	1909.15

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1867.63	1795.12	1720.39	1636.25	1518.35	1413.18	1099.65	1099.65	1037.22
45.0	1921.32	1876.49	1816.15	1748.07	1672.23	1587.54	1469.64	1363.36	1252.10
90.0	1869.29	1815.04	1745.85	1672.79	1564.29	1471.85	1360.59	1079.23	1079.23
135.0	1939.04	1889.77	1815.04	1748.07	1663.38	1568.72	1435.87	1326.83	1210.58
180.0	1999.37	1959.52	1914.68	1841.61	1769.65	1682.20	1589.20	1459.12	1346.75
225.0	1980.00	1927.97	1872.61	1787.92	1709.32	1616.88	1488.46	1380.52	1090.96
270.0	2008.23	1977.78	1925.75	1864.31	1778.51	1702.68	1603.04	1482.37	1379.41
315.0	1921.88	1865.97	1811.72	1746.96	1665.04	1553.22	1448.60	1339.56	1075.35
360.0	1867.63	1795.12	1720.39	1636.25	1518.35	1413.18	1099.65	1099.65	1037.22

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	913.33	791.28	678.86	552.98	464.42	387.36	306.94	253.08	195.90
45.0	1096.55	965.92	843.59	696.90	594.50	478.81	397.44	327.14	279.54
90.0	951.31	827.43	687.38	586.86	469.79	388.14	316.24	255.62	194.01
135.0	1081.61	924.41	798.20	682.51	556.30	464.97	387.48	306.11	291.71
180.0	1231.62	1110.39	950.97	820.34	698.01	560.73	464.42	368.10	304.44
225.0	1090.96	993.10	862.41	738.58	599.20	500.12	416.37	344.74	269.68
270.0	1262.06	1141.39	988.06	855.77	729.56	616.64	494.31	410.72	338.76
315.0	1075.35	951.31	826.65	705.26	568.70	473.11	372.09	308.21	253.96
360.0	913.33	791.28	678.86	552.98	464.42	387.36	306.94	253.08	195.90

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.70	129.20	106.44	84.64	71.02	59.95	51.37	43.07	37.92
45.0	279.54	158.37	126.82	102.85	84.80	68.31	58.73	51.04	43.34
90.0	157.09	128.36	106.17	85.08	72.35	62.33	52.86	46.72	41.57
135.0	291.71	152.72	125.32	104.01	87.18	70.80	60.56	52.25	45.45
180.0	290.05	290.05	155.60	128.14	106.00	87.74	70.02	59.23	50.65
225.0	218.70	177.13	136.06	110.65	86.19	71.41	60.11	51.81	44.01
270.0	291.71	291.71	166.12	127.20	103.62	85.30	68.47	58.34	50.87
315.0	197.28	161.69	133.13	105.23	87.57	74.01	63.05	52.20	45.33
360.0	158.70	129.20	106.44	84.64	71.02	59.95	51.37	43.07	37.92

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	33.99	30.89	27.79	25.74	23.58	22.20	20.98	19.71	18.82
45.0	38.53	33.65	30.56	28.01	25.46	23.69	22.31	21.09	19.76
90.0	36.42	33.05	30.28	27.46	25.46	23.86	22.14	20.92	19.87
135.0	38.75	34.54	31.27	28.56	25.85	24.02	22.20	20.92	19.87
180.0	43.67	37.09	33.05	29.39	27.07	25.19	23.08	21.70	20.48
225.0	39.30	35.43	32.22	28.89	26.74	24.85	22.92	21.53	20.37
270.0	43.67	39.13	35.37	32.22	28.95	26.79	24.91	23.25	21.53
315.0	39.97	35.87	31.72	29.06	26.90	24.58	23.03	21.31	20.09
360.0	33.99	30.89	27.79	25.74	23.58	22.20	20.98	19.71	18.82

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	17.99	17.16	16.55	16.00	15.55	15.00	14.50	14.12	13.73
45.0	18.88	18.10	17.44	16.77	16.05	15.50	14.89	14.45	14.06
90.0	18.93	17.93	17.21	16.55	16.00	15.33	14.83	14.34	13.95
135.0	18.71	17.93	17.27	16.61	15.89	15.39	14.89	14.39	13.89
180.0	19.26	18.43	17.66	16.94	16.38	15.72	15.22	14.78	14.28
225.0	19.15	18.32	17.38	16.72	16.11	15.61	15.06	14.56	14.17
270.0	20.37	19.37	18.27	17.55	16.72	16.16	15.61	15.11	14.61
315.0	19.15	18.27	17.33	16.66	16.05	15.50	15.00	14.56	14.12
360.0	17.99	17.16	16.55	16.00	15.55	15.00	14.50	14.12	13.73

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	13.34	13.01	12.68	12.34	12.01	11.68	11.40	11.18	10.90
45.0	13.62	13.28	12.90	12.57	12.23	11.96	11.68	11.35	11.07
90.0	13.56	13.12	12.79	12.45	12.12	11.79	11.51	11.18	10.96
135.0	13.56	13.23	12.84	12.51	12.18	11.90	11.62	11.29	11.07
180.0	13.95	13.51	13.17	12.84	12.51	12.18	11.96	11.68	11.35
225.0	13.73	13.28	12.95	12.68	12.34	12.01	11.73	11.40	11.13
270.0	14.17	13.78	13.45	13.01	12.62	12.40	12.07	11.73	11.40
315.0	13.62	13.34	12.95	12.57	12.29	12.01	11.68	11.46	11.18
360.0	13.34	13.01	12.68	12.34	12.01	11.68	11.40	11.18	10.90

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.57	10.30	10.07	9.80	9.52	9.24	9.02	8.80	8.52
45.0	10.79	10.57	10.24	9.96	9.69	9.47	9.19	8.91	8.69
90.0	10.63	10.35	10.13	9.80	9.58	9.35	9.02	8.75	8.52
135.0	10.74	10.52	10.19	9.96	9.74	9.47	9.13	8.97	8.75
180.0	11.13	10.85	10.57	10.24	10.02	9.80	9.47	9.24	9.02
225.0	10.90	10.57	10.30	10.02	9.80	9.52	9.24	9.02	8.80
270.0	11.13	10.90	10.57	10.30	10.02	9.80	9.52	9.24	8.97
315.0	10.85	10.57	10.30	10.02	9.80	9.52	9.30	9.08	8.75
360.0	10.57	10.30	10.07	9.80	9.52	9.24	9.02	8.80	8.52

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.30	8.14	7.86	7.69	7.53	7.42	7.25	7.09	7.03
45.0	8.47	8.30	8.08	7.86	7.64	7.47	7.31	7.14	7.03
90.0	8.30	8.14	7.92	7.69	7.58	7.36	7.25	7.09	7.03
135.0	8.47	8.30	8.03	7.86	7.64	7.47	7.36	7.20	7.03
180.0	8.75	8.52	8.30	8.08	7.86	7.64	7.47	7.36	7.20
225.0	8.52	8.30	8.14	7.92	7.69	7.53	7.42	7.25	7.14
270.0	8.75	8.52	8.30	8.08	7.86	7.69	7.53	7.36	7.20
315.0	8.52	8.30	8.14	7.92	7.69	7.53	7.36	7.25	7.03
360.0	8.30	8.14	7.86	7.69	7.53	7.42	7.25	7.09	7.03

Intensity data(cd)

C/γ(°)	90.0
0.0	7.09
45.0	7.03
90.0	7.03
135.0	6.97
180.0	7.09
225.0	7.03
270.0	7.03
315.0	7.09
360.0	7.09