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NT

Client:
LumCAT: 1-1378-L
Luminaire: 92.70.427.00
Report No: 20231120-B006
Ballast type: AC

Test No: 20231120-C006	Voltage(V): 36.520
LampCAT: P2121-018-1203-P3090-1	Current(A): 0.399
Lamp flux(lm): 2085.4	Power (W): 14.571
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1859.29, Efficiency(%): 89.16% , Luminous Efficacy(lm/W): 127.60
Central intensity(cd): 6564.383, Maximum intensity(cd): 6564.383
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.2
[C90/270]Total=26.2
Field angle(10%Imax): [C0/180]Total=54.4
[C90/270]Total=54.4
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
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(%): 89.16%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.052%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6564.383	0.000	0	0.00%	0.00%
1.0	6539.820	6.270	6.27	0.30%	0.34%
2.0	6459.281	18.658	24.928	0.89%	1.34%
3.0	6337.641	30.606	55.534	1.47%	2.99%
4.0	6142.381	41.775	97.308	2.00%	5.23%
5.0	5913.218	51.863	149.171	2.49%	8.02%
6.0	5649.250	60.764	209.935	2.91%	11.29%
7.0	5347.642	68.258	278.192	3.27%	14.96%
8.0	5022.440	74.217	352.409	3.56%	18.95%
9.0	4693.570	78.743	431.152	3.78%	23.19%
10.0	4349.063	81.833	512.984	3.92%	27.59%
11.0	3993.624	83.361	596.345	4.00%	32.07%
12.0	3649.048	83.545	679.89	4.01%	36.57%
13.0	3310.284	82.590	762.48	3.96%	41.01%
14.0	2972.281	80.416	842.896	3.86%	45.33%
15.0	2688.109	77.708	920.605	3.73%	49.51%
16.0	2399.509	74.548	995.153	3.57%	53.52%
17.0	2148.758	70.829	1065.981	3.40%	57.33%
18.0	1918.625	67.062	1133.044	3.22%	60.94%
19.0	1720.874	63.320	1196.363	3.04%	64.35%
20.0	1534.540	59.583	1255.947	2.86%	67.55%
21.0	1351.119	55.410	1311.357	2.66%	70.53%
22.0	1210.293	51.473	1362.83	2.47%	73.30%
23.0	1118.516	48.865	1411.694	2.34%	75.93%
24.0	1010.667	46.552	1458.246	2.23%	78.43%
25.0	893.456	43.296	1501.542	2.08%	80.76%
26.0	782.340	39.557	1541.099	1.90%	82.89%
27.0	675.148	35.658	1576.757	1.71%	84.80%
28.0	573.422	31.611	1608.368	1.52%	86.50%
29.0	480.303	27.568	1635.936	1.32%	87.99%
30.0	393.190	23.584	1659.52	1.13%	89.26%
31.0	318.345	19.801	1679.321	0.95%	90.32%
32.0	261.449	16.610	1695.932	0.80%	91.21%
33.0	223.559	14.289	1710.22	0.69%	91.98%
34.0	169.278	11.888	1722.109	0.57%	92.62%
35.0	140.910	9.633	1731.742	0.46%	93.14%
36.0	118.664	8.265	1740.007	0.40%	93.58%
37.0	104.632	7.283	1747.29	0.35%	93.98%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	93.700	6.620	1753.91	0.32%	94.33%
39.0	84.117	6.069	1759.979	0.29%	94.66%
40.0	75.869	5.580	1765.559	0.27%	94.96%
41.0	68.133	5.128	1770.687	0.25%	95.23%
42.0	61.878	4.724	1775.41	0.23%	95.49%
43.0	56.198	4.374	1779.784	0.21%	95.72%
44.0	50.932	4.043	1783.827	0.19%	95.94%
45.0	46.642	3.750	1787.577	0.18%	96.14%
46.0	42.574	3.489	1791.066	0.17%	96.33%
47.0	38.927	3.242	1794.308	0.16%	96.50%
48.0	35.814	3.021	1797.329	0.14%	96.67%
49.0	33.088	2.829	1800.159	0.14%	96.82%
50.0	30.528	2.652	1802.811	0.13%	96.96%
51.0	28.293	2.489	1805.3	0.12%	97.10%
52.0	26.397	2.347	1807.646	0.11%	97.22%
53.0	24.798	2.227	1809.873	0.11%	97.34%
54.0	23.214	2.116	1811.99	0.10%	97.46%
55.0	21.996	2.018	1814.008	0.10%	97.56%
56.0	20.882	1.938	1815.945	0.09%	97.67%
57.0	19.969	1.868	1817.813	0.09%	97.77%
58.0	19.097	1.807	1819.62	0.09%	97.87%
59.0	18.391	1.753	1821.372	0.08%	97.96%
60.0	17.685	1.704	1823.077	0.08%	98.05%
61.0	17.097	1.660	1824.736	0.08%	98.14%
62.0	16.516	1.620	1826.356	0.08%	98.23%
63.0	15.935	1.578	1827.934	0.08%	98.31%
64.0	15.444	1.540	1829.474	0.07%	98.40%
65.0	14.952	1.504	1830.978	0.07%	98.48%
66.0	14.496	1.469	1832.448	0.07%	98.56%
67.0	14.018	1.434	1833.882	0.07%	98.63%
68.0	13.562	1.397	1835.279	0.07%	98.71%
69.0	13.167	1.364	1836.642	0.07%	98.78%
70.0	12.745	1.331	1837.973	0.06%	98.85%
71.0	12.351	1.297	1839.27	0.06%	98.92%
72.0	11.977	1.265	1840.535	0.06%	98.99%
73.0	11.638	1.235	1841.77	0.06%	99.06%
74.0	11.299	1.206	1842.976	0.06%	99.12%
75.0	10.967	1.176	1844.152	0.06%	99.19%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.656	1.148	1845.3	0.06%	99.25%
77.0	10.379	1.121	1846.422	0.05%	99.31%
78.0	10.130	1.098	1847.519	0.05%	99.37%
79.0	9.881	1.075	1848.595	0.05%	99.42%
80.0	9.694	1.055	1849.65	0.05%	99.48%
81.0	9.500	1.038	1850.688	0.05%	99.54%
82.0	9.355	1.022	1851.71	0.05%	99.59%
83.0	9.209	1.009	1852.719	0.05%	99.65%
84.0	9.016	0.993	1853.712	0.05%	99.70%
85.0	8.836	0.974	1854.687	0.05%	99.75%
86.0	8.621	0.954	1855.641	0.05%	99.80%
87.0	8.455	0.935	1856.575	0.04%	99.85%
88.0	8.345	0.920	1857.496	0.04%	99.90%
89.0	8.165	0.905	1858.401	0.04%	99.95%
90.0	8.137	0.894	1859.294	0.04%	100.00%

Zonal flux distribution table

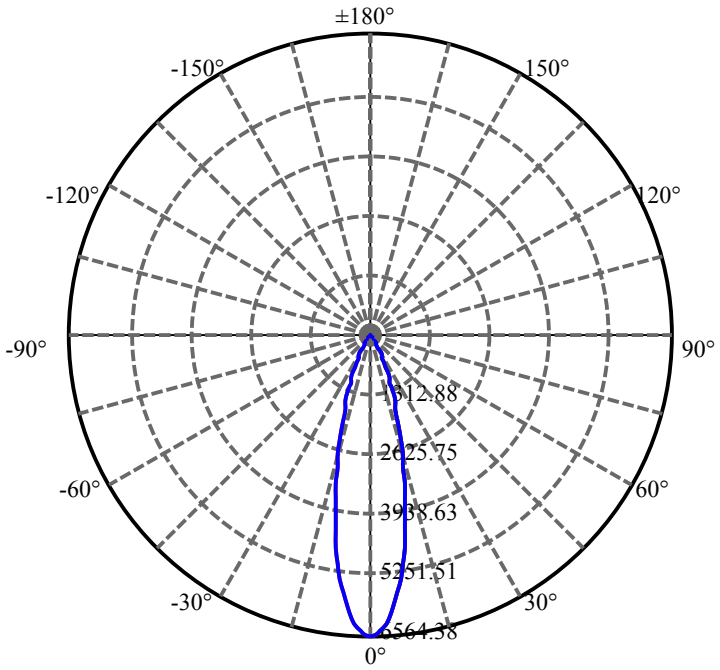
ZONAL LUMEN SUMMARY

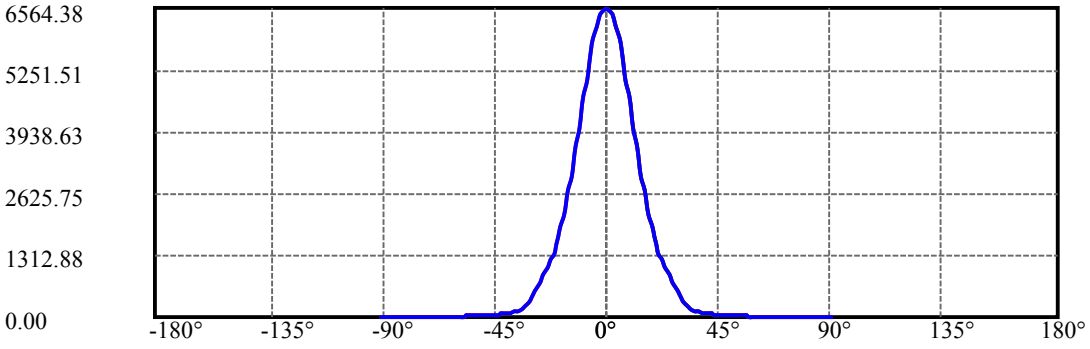
Zone	Lumens	%Lamp	%Fixt
0-30	1659.52	79.58%	89.26%
0-40	1765.56	84.66%	94.96%
0-60	1823.08	87.42%	98.05%
0-90	1858.40	89.12%	99.95%
0-120	1858.40	89.12%	99.95%
0-180	1859.29	89.16%	100.00%
60-90	35.32	1.69%	1.90%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.67	1487.44	71.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	512.98
10-20	742.96
20-30	403.57
30-40	106.04
40-50	37.25
50-60	20.27
60-70	14.90
70-80	11.68
80-90	8.75
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):

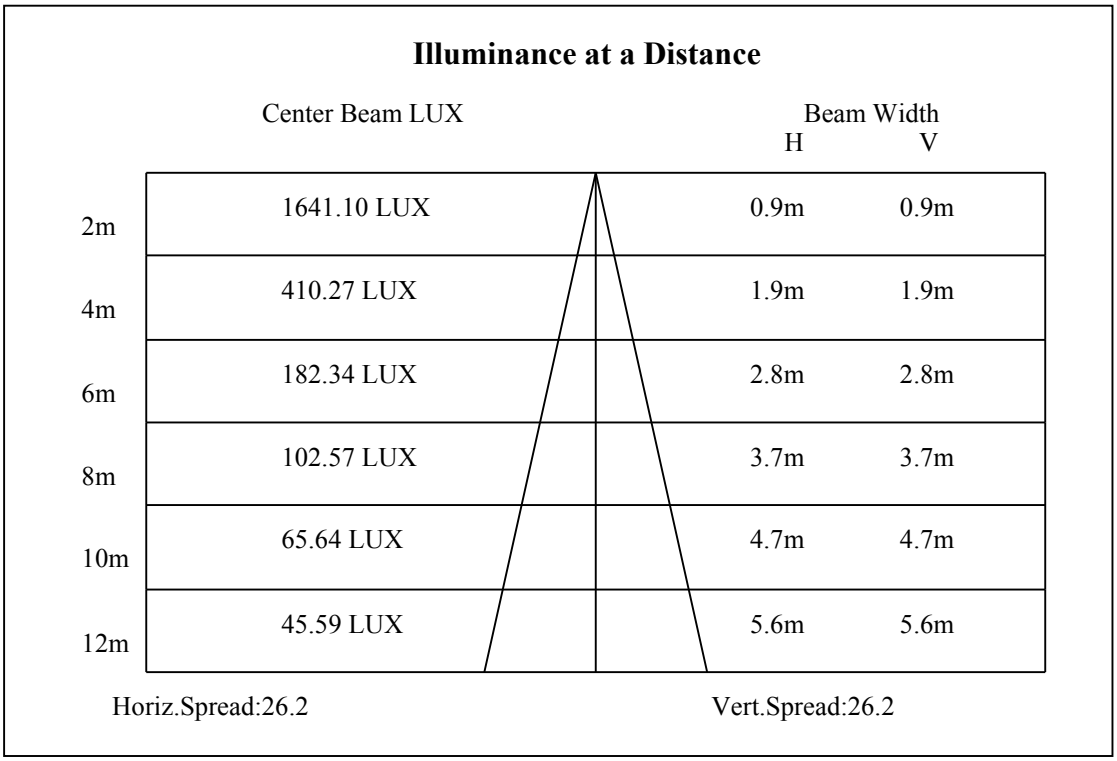
C0/C180:

C90/C270:

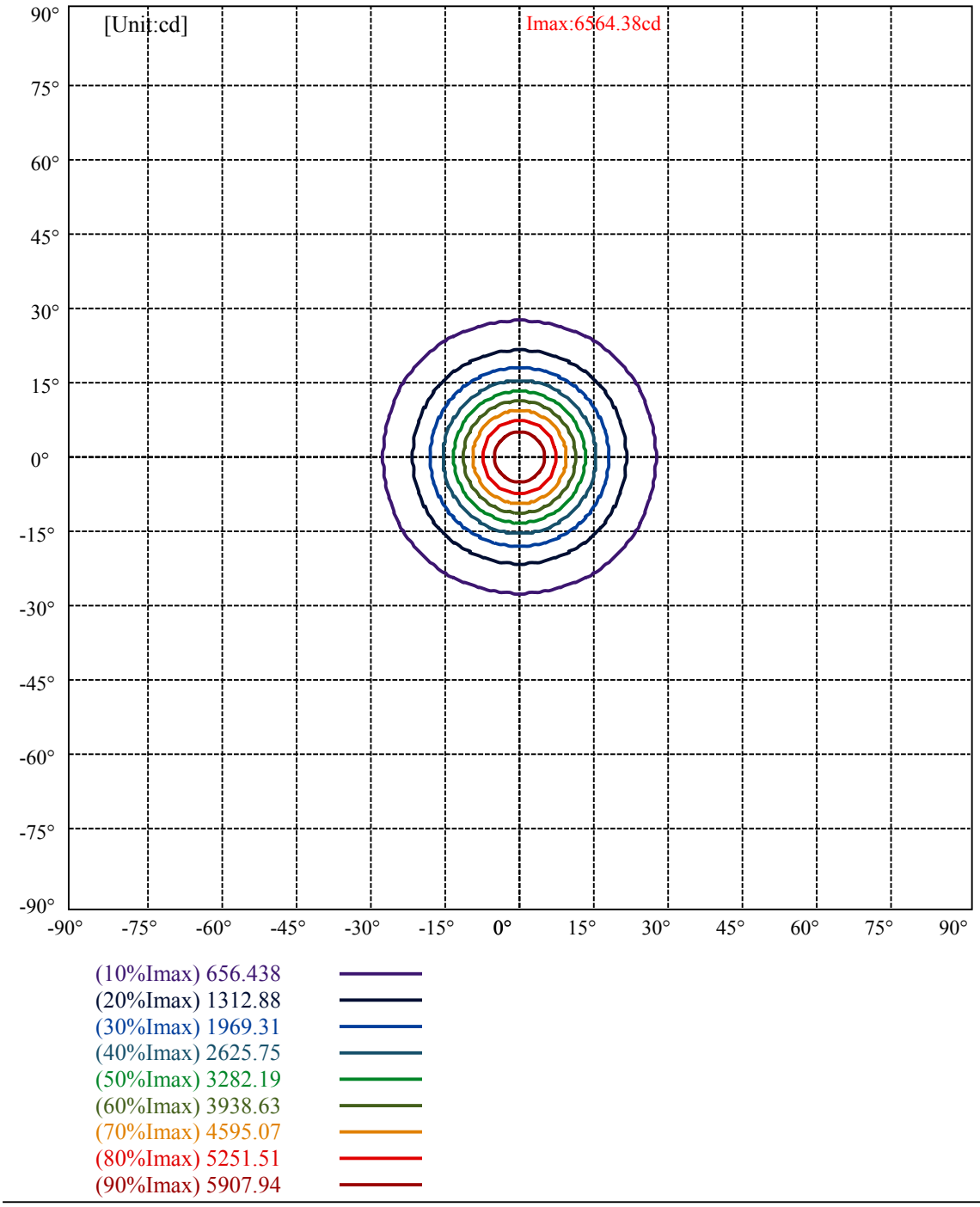
Field angle(10%Imax):C0/180Left:27.2 Right:27.2
:C90/270Left:27.2 Right:27.2

Beam Angle(50%Imax):C0/180Left:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1

Lux distance Curve



ISO-Intensity(V-H)

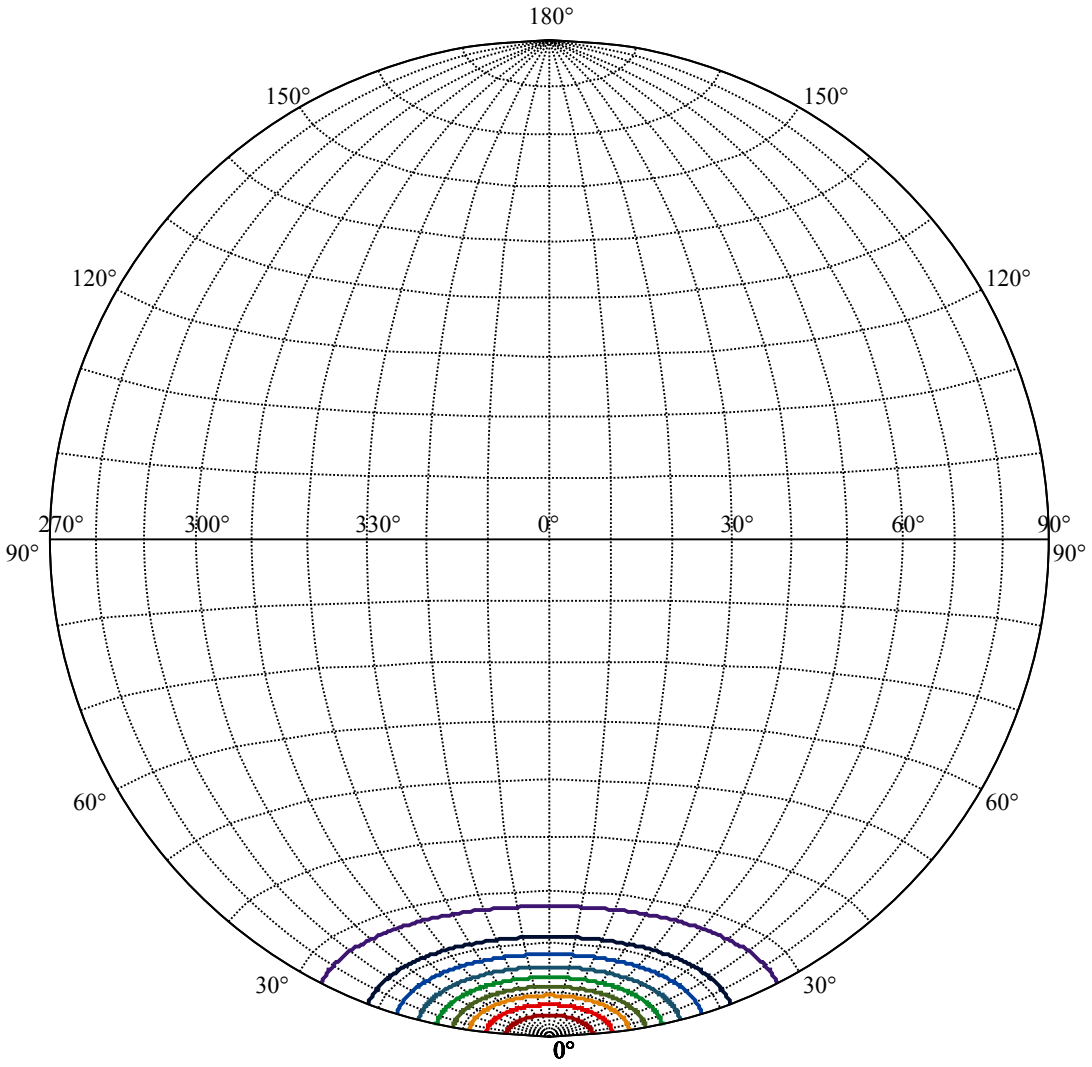


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/20
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



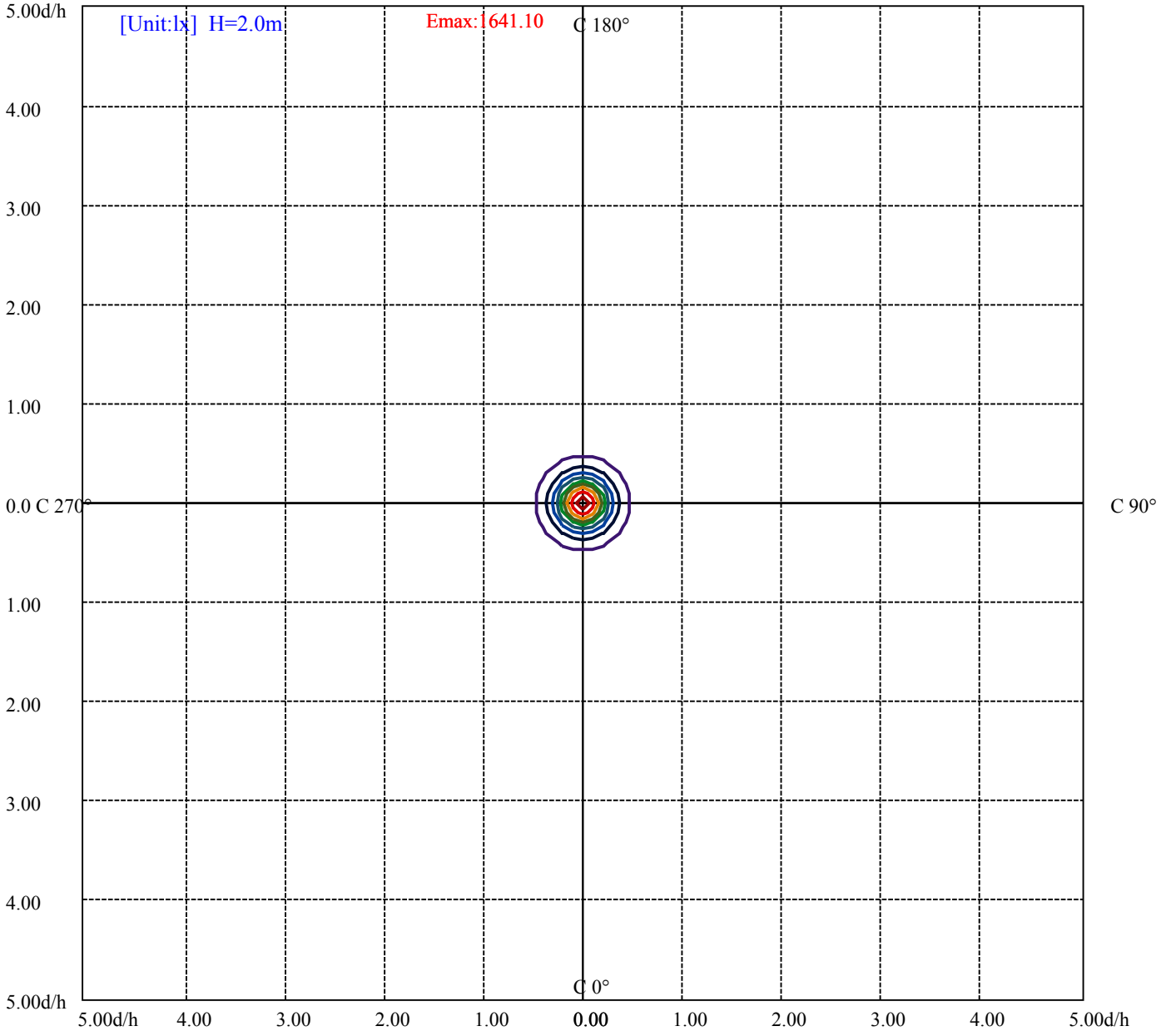
House [Unit:cd] Road

Imax:6564.38

(10%Imax) 656.438
(20%Imax) 1312.88
(30%Imax) 1969.31
(40%Imax) 2625.75
(50%Imax) 3282.19
(60%Imax) 3938.63
(70%Imax) 4595.07
(80%Imax) 5251.51
(90%Imax) 5907.94

Equipment: GMS1980 Date: 2023/11/20 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

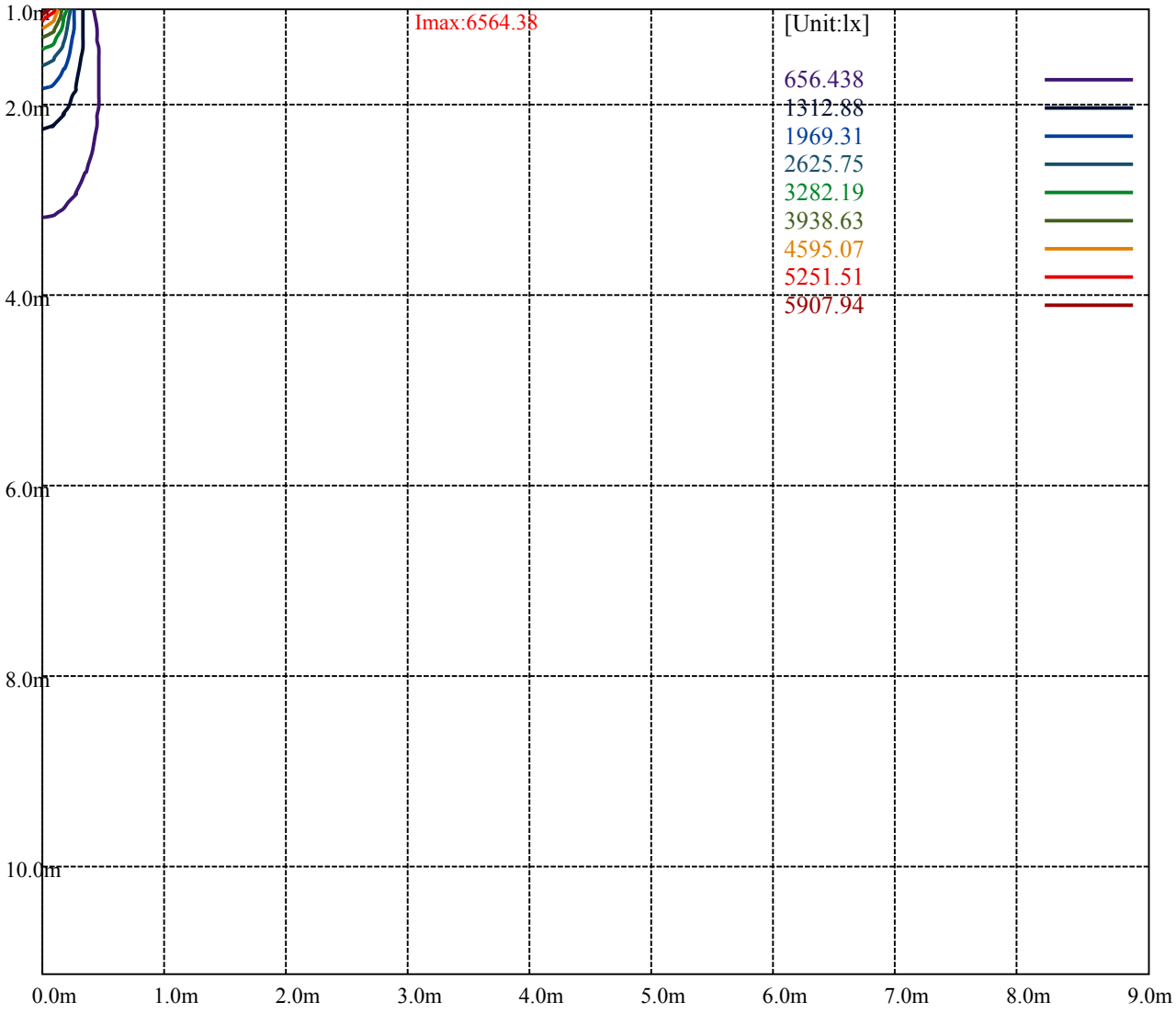
ISO illuminance diagram



(10%Emax) 164.1095
(20%Emax) 328.22
(30%Emax) 492.3275
(40%Emax) 656.4375
(50%Emax) 820.5475
(60%Emax) 984.6575
(70%Emax) 1148.767
(80%Emax) 1312.875
(90%Emax) 1476.985

Equipment: GMS1980
Temperature(°C): 0.0
Date: 2023/11/20
Humidity(%): 0.0%
Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/20
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1378-L

Luminance Limitting Curve(no luminous side)

Luminance Table

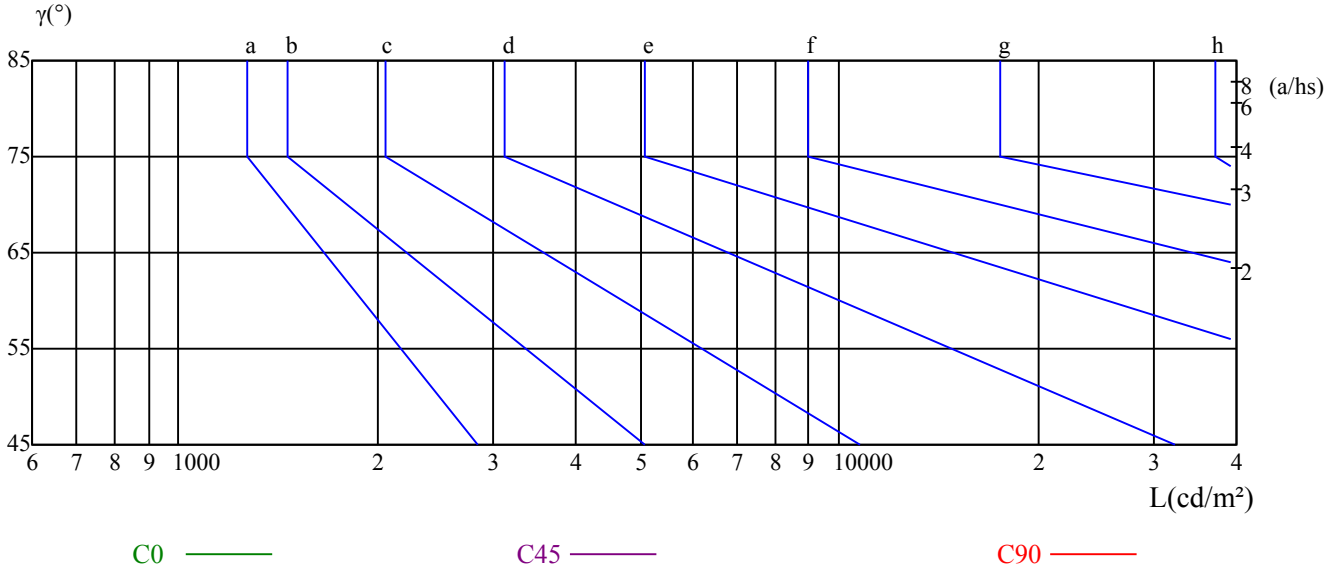
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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



Equipment: GMS1980
Temperature(°C): 0.0

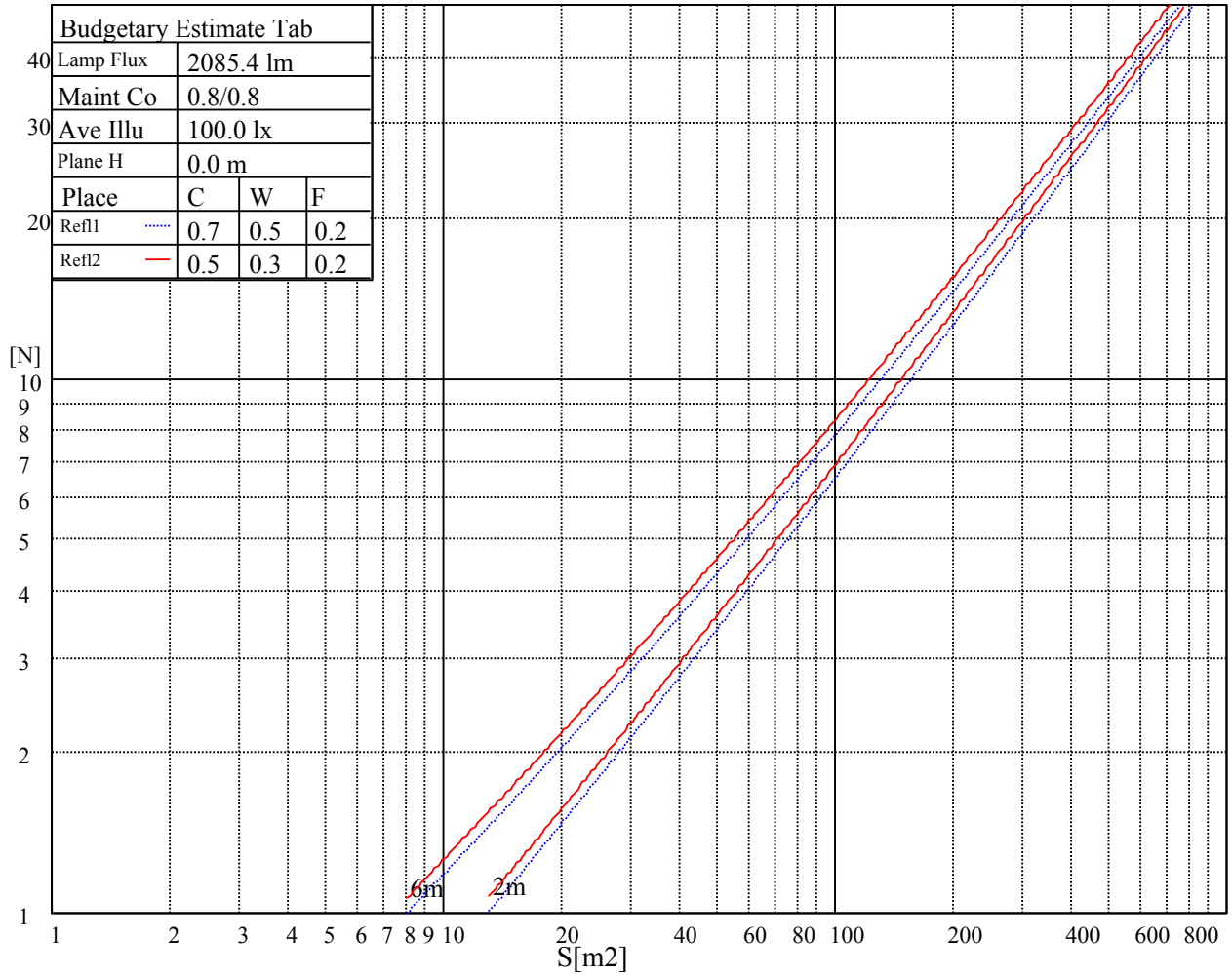
Date: 2023/11/20
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

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

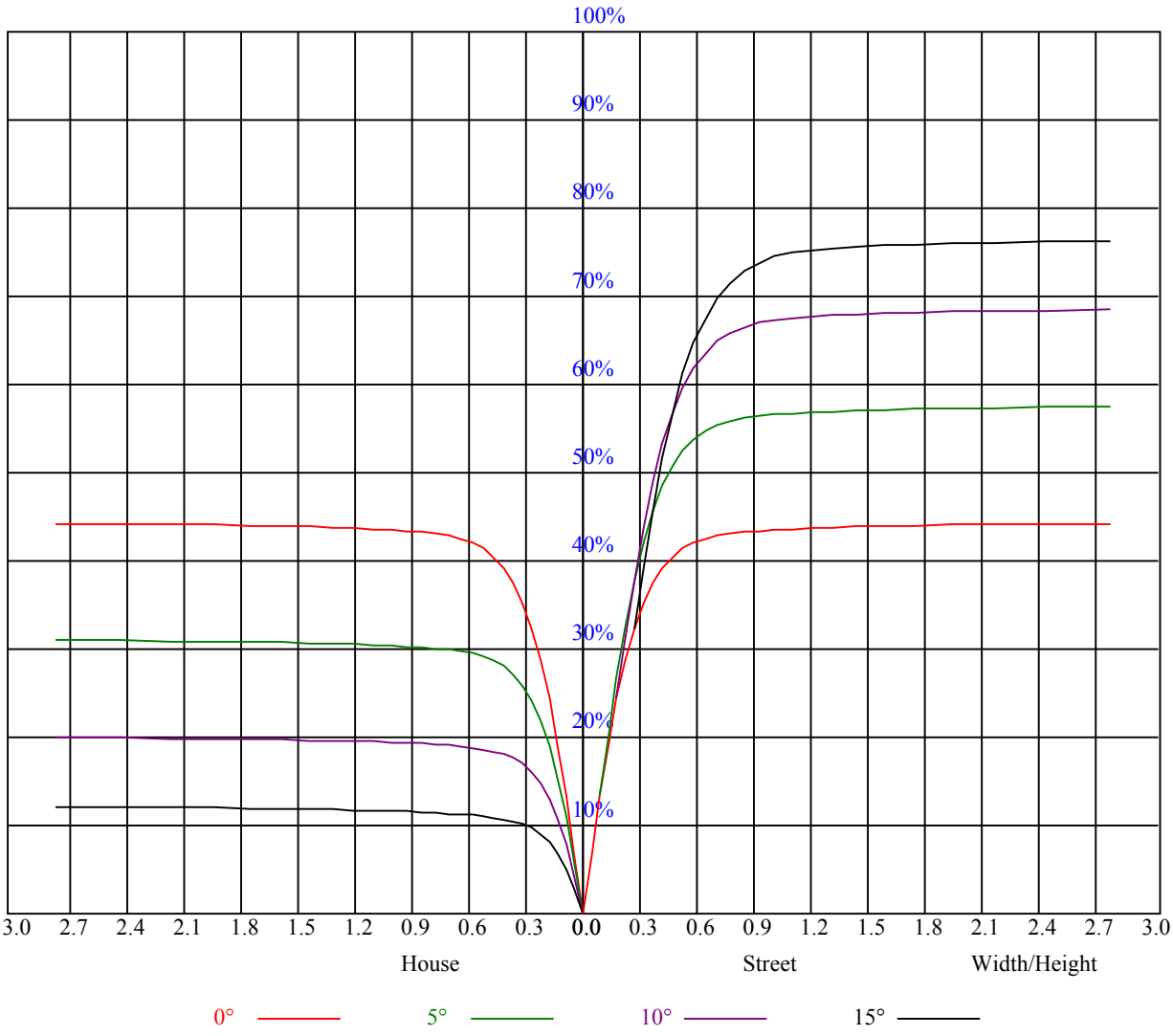


Equipment: GMS1980 Date: 2023/11/20 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.06	1.06	1.06	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.88	0.93	0.90	0.88	0.90	0.88	0.86	0.87	0.85	0.84	0.85	0.83	0.82	0.81
3	0.89	0.86	0.83	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.81	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.79	0.77	0.75	0.74
5	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.76	0.74	0.72	0.71
6	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
7	0.75	0.71	0.68	0.75	0.70	0.68	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
8	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.64	0.63
9	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/20	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	6509.03	6406.07	6259.39	6067.31	5771.17	5502.70	5216.52	4923.70	4526.26
45.0	6566.04	6559.40	6469.18	6350.16	6185.76	5907.89	5656.58	5376.50	5012.27
90.0	6589.85	6517.33	6401.09	6232.26	5970.99	5720.24	5383.14	5088.66	4784.21
135.0	6592.61	6593.72	6542.80	6446.48	6253.85	6049.04	5812.13	5476.69	5191.06
180.0	6509.03	6572.69	6569.92	6531.17	6413.27	6266.03	6076.72	5782.24	5511.00
225.0	6566.04	6540.58	6445.93	6319.17	6148.68	5935.57	5618.39	5328.89	5022.79
270.0	6589.85	6593.72	6554.97	6469.18	6295.92	6113.81	5892.94	5555.84	5265.23
315.0	6592.61	6535.05	6430.98	6285.40	6099.41	5810.47	5537.57	5248.63	4866.69
360.0	6509.03	6406.07	6259.39	6067.31	5771.17	5502.70	5216.52	4923.70	4526.26

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4202.45	3872.54	3462.37	3145.75	2768.79	2505.86	2256.21	2023.73	1779.62
45.0	4708.93	4379.02	4060.19	3651.68	3330.63	3015.11	2726.72	2387.40	2149.38
90.0	4460.39	4037.49	3715.33	3394.28	3080.43	2723.40	2445.52	2198.09	1984.43
135.0	4815.21	4495.82	4166.47	3759.62	3430.26	3118.62	2827.46	2480.95	2236.29
180.0	5144.56	4841.23	4520.73	4191.93	3855.93	3455.73	3144.08	2839.09	2558.44
225.0	4711.70	4315.92	3987.67	3665.52	3276.93	2976.92	2695.17	2374.12	2143.84
270.0	4966.88	4648.04	4246.17	3915.16	3585.81	3196.67	2896.10	2624.87	2294.41
315.0	4538.44	4202.45	3790.06	3468.46	3153.49	2785.95	2513.61	2267.84	2043.65
360.0	4202.45	3872.54	3462.37	3145.75	2768.79	2505.86	2256.21	2023.73	1779.62

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1606.92	1455.25	1234.94	1077.01	1046.52	926.90	815.91	690.26	594.94
45.0	1927.41	1685.52	1521.12	1341.22	1220.55	1105.41	959.83	854.11	747.83
90.0	1744.19	1575.36	1397.12	1093.46	1093.46	1007.49	899.11	791.22	686.83
135.0	2017.64	1821.69	1605.25	1460.23	1332.91	1196.19	1084.38	968.69	835.29
180.0	2247.91	2033.69	1821.13	1601.38	1458.57	1300.26	1194.53	1091.02	952.08
225.0	1932.39	1698.25	1541.04	1401.55	1086.15	1086.15	1031.24	921.58	819.45
270.0	2077.42	1877.59	1685.52	1494.55	1361.70	1243.24	1129.77	992.49	884.55
315.0	1795.12	1619.65	1470.19	1339.56	1082.50	1082.50	970.57	838.27	737.75
360.0	1606.92	1455.25	1234.94	1077.01	1046.52	926.90	815.91	690.26	594.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	489.27	408.68	341.03	263.48	213.39	174.36	144.97	129.08	115.47
45.0	649.30	538.59	450.58	375.85	306.11	291.16	224.24	158.26	138.22
90.0	565.71	473.99	390.02	317.07	242.39	193.68	156.65	127.48	113.70
135.0	728.45	632.69	520.88	437.85	364.23	292.82	292.82	169.88	140.93
180.0	852.45	754.47	656.49	543.02	455.56	380.28	306.11	289.50	216.60
225.0	694.47	595.88	483.79	397.94	322.60	242.12	190.64	153.16	124.66
270.0	782.15	654.83	557.96	443.94	362.57	292.27	292.27	174.09	146.85
315.0	639.39	528.24	441.67	366.39	279.92	224.90	180.78	152.78	130.86
360.0	489.27	408.68	341.03	263.48	213.39	174.36	144.97	129.08	115.47

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	104.12	92.11	83.36	75.78	69.03	61.55	56.29	51.64	46.33
45.0	120.67	108.49	95.98	87.29	79.49	70.80	64.71	59.17	54.30
90.0	102.13	90.17	82.26	73.18	66.81	61.06	55.96	51.42	46.39
135.0	122.33	106.11	95.15	86.30	76.61	69.63	62.00	56.85	52.03
180.0	142.09	122.11	105.89	94.71	83.58	75.78	68.64	60.83	55.69
225.0	111.54	100.13	90.28	79.88	72.35	65.54	59.62	53.14	48.66
270.0	129.58	112.87	101.74	92.05	83.42	73.68	66.81	60.83	54.19
315.0	116.85	105.06	94.93	83.75	75.67	67.03	61.00	55.69	49.87
360.0	104.12	92.11	83.36	75.78	69.03	61.55	56.29	51.64	46.33

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	42.62	38.42	35.59	32.99	30.67	28.23	26.51	25.02	23.64
45.0	48.88	44.95	41.35	38.19	34.60	32.05	29.84	27.46	25.85
90.0	42.73	39.41	36.48	33.21	30.83	28.78	26.46	24.96	23.25
135.0	47.77	43.01	39.63	36.59	33.82	30.72	28.62	26.74	25.19
180.0	50.93	46.72	42.07	38.75	35.81	33.16	30.22	28.17	26.40
225.0	44.73	40.35	37.25	33.88	31.44	29.28	27.34	25.19	23.75
270.0	49.71	45.67	41.07	37.81	34.98	31.77	29.61	27.68	25.96
315.0	45.78	42.07	37.97	35.09	32.55	30.22	27.73	25.96	24.36
360.0	42.62	38.42	35.59	32.99	30.67	28.23	26.51	25.02	23.64

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.14	21.09	20.26	19.43	18.60	17.93	17.33	16.61	16.16
45.0	24.13	22.92	21.81	20.92	19.82	19.10	18.43	17.82	17.05
90.0	22.03	20.98	19.87	19.10	18.38	17.77	17.05	16.55	16.05
135.0	23.47	22.31	20.98	20.09	19.37	18.49	17.82	17.27	16.66
180.0	24.41	23.03	21.86	20.59	19.71	18.99	18.10	17.55	16.99
225.0	22.42	21.31	20.09	19.32	18.54	17.88	17.21	16.66	16.05
270.0	24.08	22.75	21.64	20.65	19.65	18.88	18.21	17.55	16.94
315.0	23.03	21.59	20.54	19.65	18.71	18.10	17.33	16.77	16.22
360.0	22.14	21.09	20.26	19.43	18.60	17.93	17.33	16.61	16.16

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	15.44	15.00	14.56	14.17	13.51	13.12	12.79	12.34	11.85
45.0	16.50	15.94	15.33	14.83	14.39	13.78	13.34	12.90	12.45
90.0	15.55	15.06	14.61	14.17	13.67	13.23	12.90	12.45	12.12
135.0	16.16	15.72	15.28	14.83	14.34	13.89	13.51	13.01	12.68
180.0	16.38	15.89	15.44	15.00	14.50	14.06	13.67	13.23	12.84
225.0	15.55	15.06	14.50	14.12	13.67	13.28	12.84	12.45	12.18
270.0	16.27	15.78	15.28	14.67	14.23	13.89	13.45	13.06	12.57
315.0	15.61	15.11	14.61	14.17	13.84	13.23	12.84	12.51	12.12
360.0	15.44	15.00	14.56	14.17	13.51	13.12	12.79	12.34	11.85

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.46	11.18	10.79	10.46	10.19	9.91	9.69	9.41	9.30
45.0	12.07	11.68	11.35	11.02	10.68	10.41	10.07	9.85	9.63
90.0	11.68	11.40	11.07	10.79	10.52	10.19	9.96	9.74	9.58
135.0	12.34	11.96	11.68	11.24	10.96	10.74	10.46	10.13	9.96
180.0	12.51	12.07	11.73	11.46	11.07	10.79	10.52	10.30	10.02
225.0	11.85	11.46	11.18	10.85	10.52	10.30	10.07	9.80	9.58
270.0	12.23	11.96	11.57	11.24	10.90	10.57	10.30	10.07	9.85
315.0	11.68	11.40	11.02	10.68	10.41	10.13	9.96	9.74	9.63
360.0	11.46	11.18	10.79	10.46	10.19	9.91	9.69	9.41	9.30

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.24	9.08	8.91	8.64	8.47	8.41	8.30	8.19	8.36
45.0	9.35	9.24	9.08	8.91	8.64	8.47	8.41	8.36	7.97
90.0	9.41	9.24	9.02	8.86	8.64	8.47	8.36	8.30	8.03
135.0	9.74	9.58	9.35	9.13	9.02	8.64	8.47	8.30	8.19
180.0	9.80	9.58	9.41	9.24	9.08	8.91	8.69	8.41	8.25
225.0	9.41	9.24	9.13	8.97	8.80	8.58	8.36	8.36	8.08
270.0	9.63	9.52	9.47	9.30	9.08	9.02	8.52	8.47	8.14
315.0	9.41	9.35	9.30	9.08	8.97	8.47	8.52	8.36	8.30
360.0	9.24	9.08	8.91	8.64	8.47	8.41	8.30	8.19	8.36

Intensity data(cd)

C/γ(°)	90.0
0.0	8.36
45.0	8.08
90.0	7.97
135.0	8.08
180.0	8.14
225.0	7.92
270.0	8.08
315.0	8.47
360.0	8.36