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Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 1-1381-L
Luminaire: 92.70.427.00
Report No: 20231120-B004
Ballast type: AC

Test No: 20231120-C004	Voltage(V): 36.530
LampCAT: P2121-018-1203-P3090-1	Current(A): 0.399
Lamp flux(lm): 2085.4	Power (W): 14.575
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1868.59, Efficiency(%): 89.61% , Luminous Efficacy(lm/W): 128.21
Central intensity(cd): 8216.550, Maximum intensity(cd): 8216.550
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=19.0
[C90/270]Total=19.0
Field angle(10%Imax): [C0/180]Total=52.6
[C90/270]Total=52.6
Beam angle of C0 plane : 18.97
Aveage BeamAngle(IEC 61341):18.97
Maximum s/h(1/2): C0_180=0.32 C90_270=0.32
Maximum s/h(1/4): C0_180=0.39 C90_270=0.39
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.61%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.732%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8216.550	0.000	0	0.00%	0.00%
1.0	8126.047	7.820	7.82	0.37%	0.42%
2.0	7915.980	23.025	30.845	1.10%	1.65%
3.0	7552.930	36.997	67.841	1.77%	3.63%
4.0	7103.389	49.059	116.901	2.35%	6.26%
5.0	6562.515	58.790	175.691	2.82%	9.40%
6.0	5999.154	66.015	241.706	3.17%	12.94%
7.0	5403.964	70.779	312.484	3.39%	16.72%
8.0	4841.572	73.325	385.81	3.52%	20.65%
9.0	4340.829	74.418	460.228	3.57%	24.63%
10.0	3859.876	74.213	534.442	3.56%	28.60%
11.0	3481.395	73.354	607.796	3.52%	32.53%
12.0	3129.208	72.263	680.059	3.47%	36.39%
13.0	2850.157	70.960	751.019	3.40%	40.19%
14.0	2597.260	69.726	820.746	3.34%	43.92%
15.0	2374.946	68.261	889.006	3.27%	47.58%
16.0	2172.214	66.629	955.635	3.20%	51.14%
17.0	1981.659	64.687	1020.322	3.10%	54.60%
18.0	1819.888	62.679	1083.001	3.01%	57.96%
19.0	1664.760	60.626	1143.627	2.91%	61.20%
20.0	1518.903	58.270	1201.897	2.79%	64.32%
21.0	1351.818	55.124	1257.02	2.64%	67.27%
22.0	1203.996	51.360	1308.381	2.46%	70.02%
23.0	1123.242	48.832	1357.212	2.34%	72.63%
24.0	1023.287	46.931	1404.143	2.25%	75.14%
25.0	931.767	44.454	1448.597	2.13%	77.52%
26.0	844.357	41.926	1490.522	2.01%	79.77%
27.0	754.131	39.107	1529.63	1.88%	81.86%
28.0	668.588	36.020	1565.65	1.73%	83.79%
29.0	584.562	32.786	1598.436	1.57%	85.54%
30.0	505.517	29.432	1627.868	1.41%	87.12%
31.0	423.393	25.850	1653.718	1.24%	88.50%
32.0	353.537	22.258	1675.976	1.07%	89.69%
33.0	287.098	18.873	1694.85	0.91%	90.70%
34.0	242.774	16.035	1710.885	0.77%	91.56%
35.0	185.400	13.297	1724.183	0.64%	92.27%
36.0	153.876	10.803	1734.985	0.52%	92.85%
37.0	113.004	8.704	1743.689	0.42%	93.32%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	98.543	7.061	1750.75	0.34%	93.69%
39.0	87.376	6.346	1757.096	0.30%	94.03%
40.0	78.491	5.785	1762.881	0.28%	94.34%
41.0	70.091	5.291	1768.172	0.25%	94.63%
42.0	63.511	4.854	1773.026	0.23%	94.89%
43.0	57.173	4.471	1777.497	0.21%	95.12%
44.0	52.517	4.140	1781.637	0.20%	95.35%
45.0	47.957	3.861	1785.498	0.19%	95.55%
46.0	44.304	3.608	1789.106	0.17%	95.75%
47.0	40.927	3.390	1792.496	0.16%	95.93%
48.0	38.083	3.194	1795.69	0.15%	96.10%
49.0	35.752	3.032	1798.722	0.15%	96.26%
50.0	33.579	2.891	1801.613	0.14%	96.42%
51.0	31.787	2.766	1804.378	0.13%	96.56%
52.0	30.223	2.661	1807.039	0.13%	96.71%
53.0	28.901	2.572	1809.611	0.12%	96.84%
54.0	27.836	2.501	1812.112	0.12%	96.98%
55.0	26.916	2.444	1814.556	0.12%	97.11%
56.0	26.155	2.398	1816.954	0.11%	97.24%
57.0	25.456	2.360	1819.314	0.11%	97.36%
58.0	24.902	2.329	1821.642	0.11%	97.49%
59.0	24.356	2.303	1823.945	0.11%	97.61%
60.0	23.726	2.272	1826.217	0.11%	97.73%
61.0	22.999	2.230	1828.447	0.11%	97.85%
62.0	22.072	2.172	1830.618	0.10%	97.97%
63.0	21.124	2.101	1832.719	0.10%	98.08%
64.0	19.948	2.015	1834.735	0.10%	98.19%
65.0	18.979	1.926	1836.661	0.09%	98.29%
66.0	18.004	1.845	1838.506	0.09%	98.39%
67.0	17.056	1.763	1840.269	0.08%	98.48%
68.0	16.309	1.690	1841.959	0.08%	98.57%
69.0	15.547	1.625	1843.585	0.08%	98.66%
70.0	14.925	1.565	1845.15	0.08%	98.75%
71.0	14.371	1.514	1846.664	0.07%	98.83%
72.0	13.880	1.469	1848.133	0.07%	98.91%
73.0	13.389	1.426	1849.559	0.07%	98.98%
74.0	12.946	1.384	1850.943	0.07%	99.06%
75.0	12.545	1.347	1852.29	0.06%	99.13%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.129	1.310	1853.6	0.06%	99.20%
77.0	11.742	1.273	1854.872	0.06%	99.27%
78.0	11.361	1.237	1856.109	0.06%	99.33%
79.0	11.029	1.203	1857.312	0.06%	99.40%
80.0	10.718	1.172	1858.485	0.06%	99.46%
81.0	10.427	1.143	1859.628	0.05%	99.52%
82.0	10.130	1.115	1860.743	0.05%	99.58%
83.0	9.832	1.085	1861.828	0.05%	99.64%
84.0	9.514	1.054	1862.882	0.05%	99.69%
85.0	9.168	1.020	1863.902	0.05%	99.75%
86.0	8.829	0.984	1864.885	0.05%	99.80%
87.0	8.628	0.955	1865.841	0.05%	99.85%
88.0	8.428	0.934	1866.775	0.04%	99.90%
89.0	8.282	0.916	1867.691	0.04%	99.95%
90.0	8.165	0.902	1868.593	0.04%	100.00%

Zonal flux distribution table

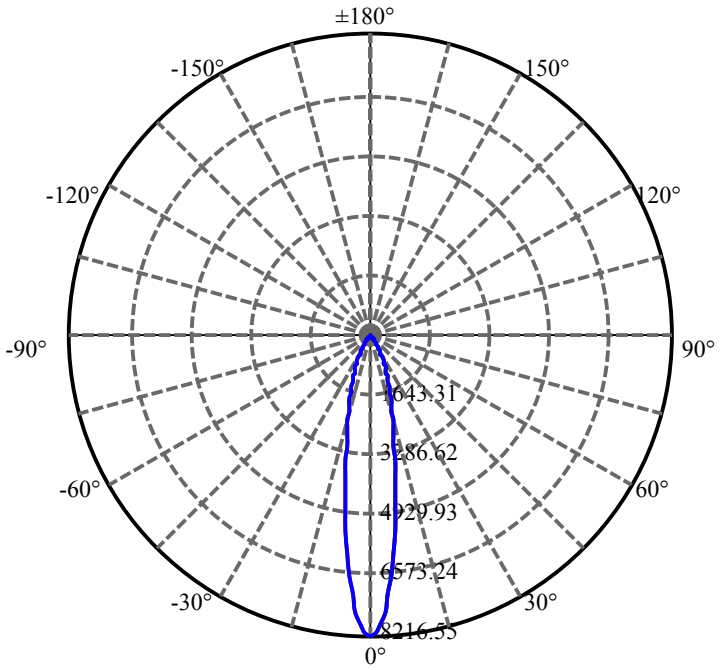
ZONAL LUMEN SUMMARY

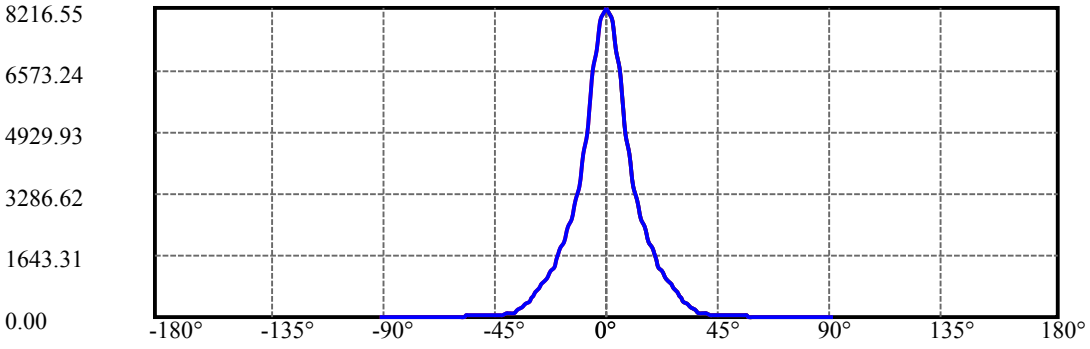
Zone	Lumens	%Lamp	%Fixt
0-30	1627.87	78.06%	87.12%
0-40	1762.88	84.54%	94.34%
0-60	1826.22	87.57%	97.73%
0-90	1867.69	89.56%	99.95%
0-120	1867.69	89.56%	99.95%
0-180	1868.59	89.61%	100.00%
60-90	41.47	1.99%	2.22%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.11	1494.87	71.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	534.44
10-20	667.46
20-30	425.97
30-40	135.01
40-50	38.73
50-60	24.60
60-70	18.93
70-80	13.34
80-90	9.21
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):

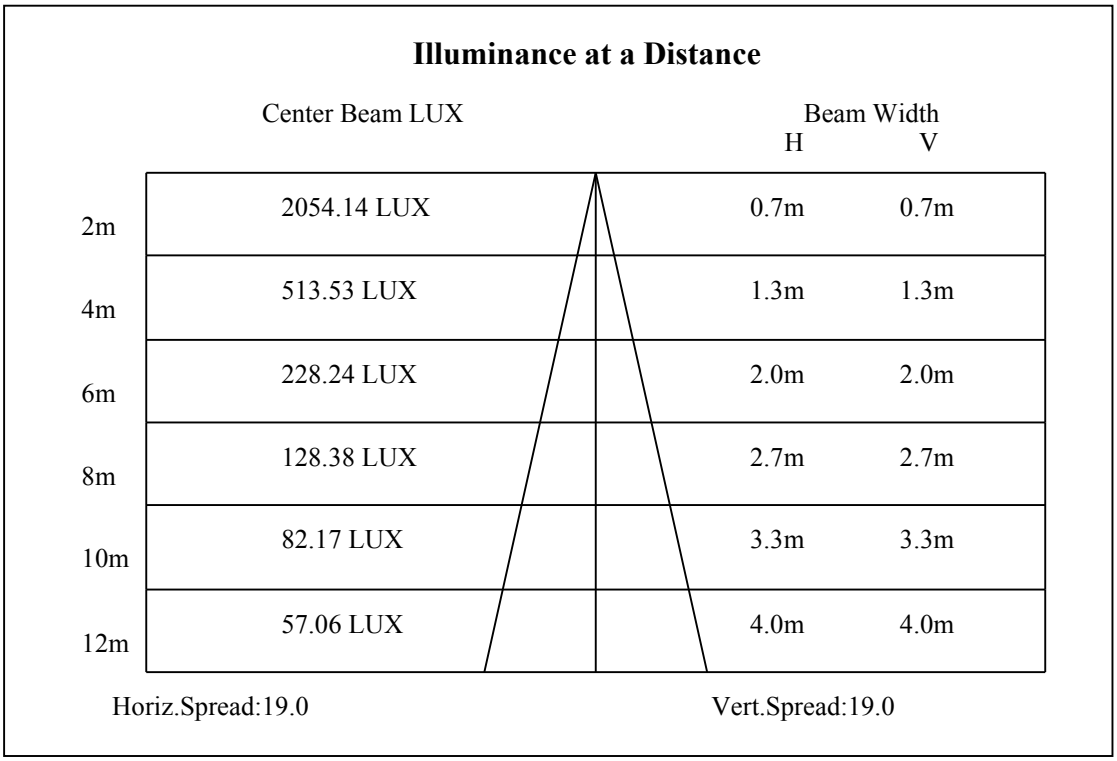
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:26.3 Right:26.3
:C90/270Left:26.3 Right:26.3

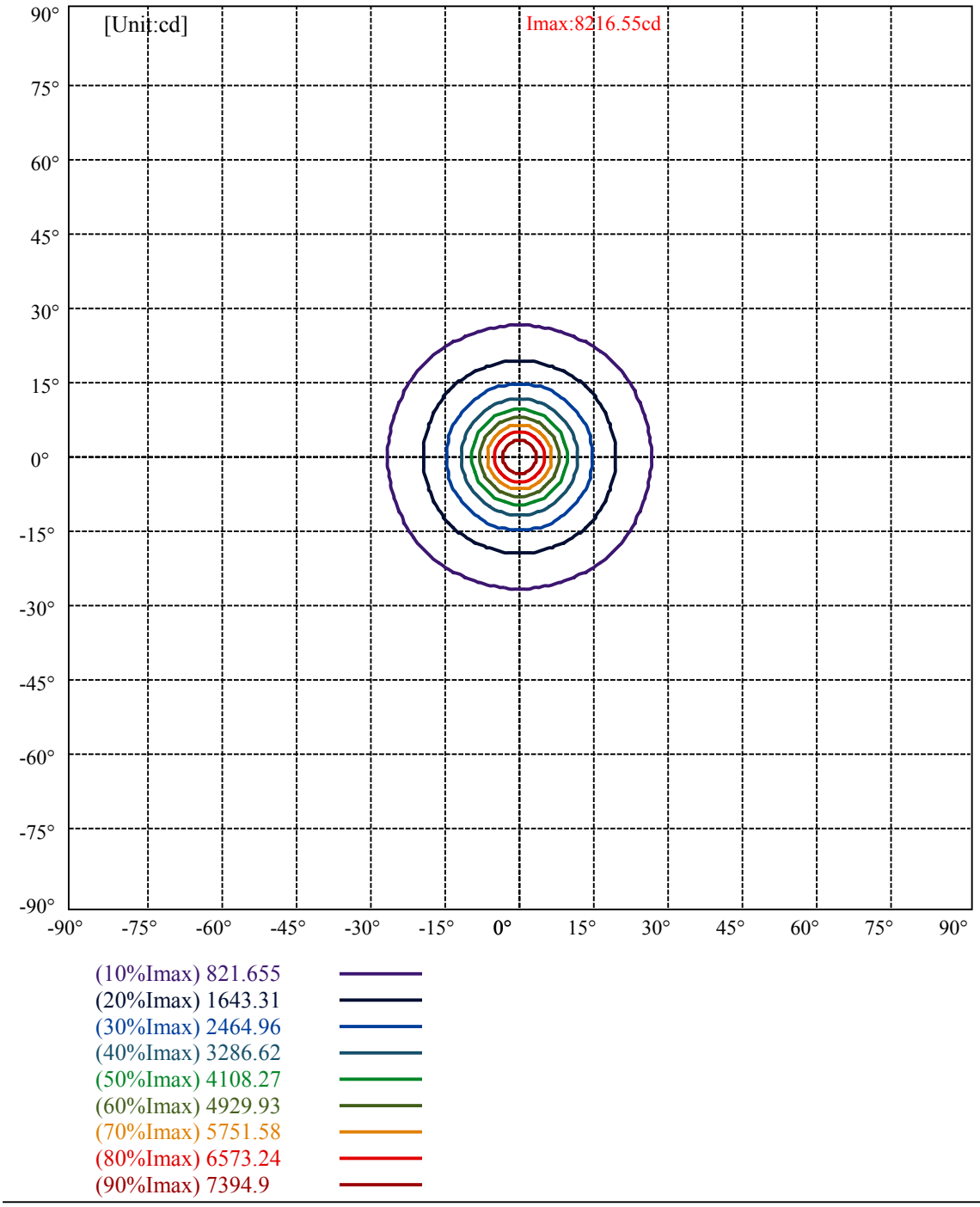
Beam Angle(50%Imax):C0/180Left:9.5 Right:9.5
:C90/270Left:9.5 Right:9.5

Lux distance Curve



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

ISO-Intensity(V-H)

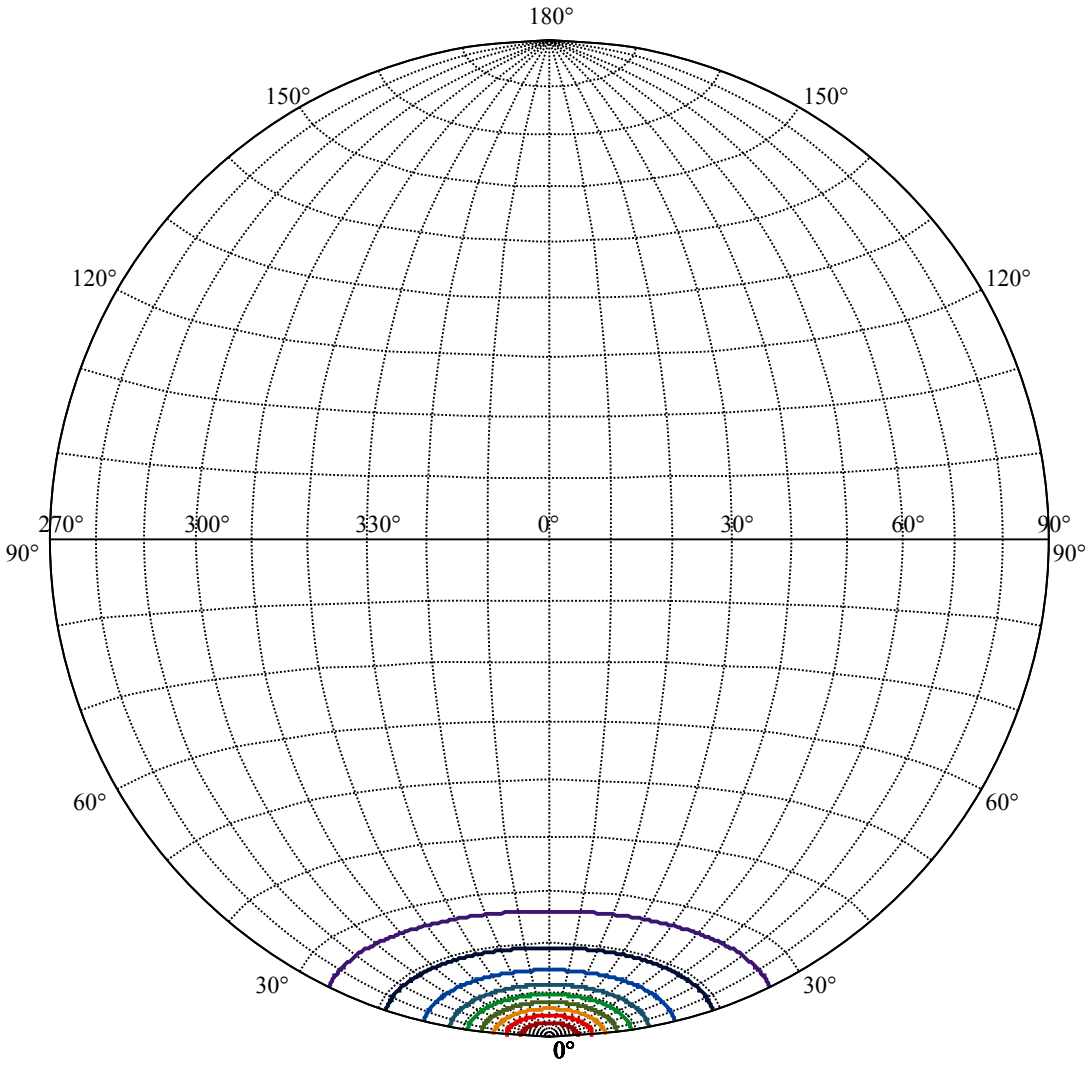


Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:8216.55

(10%Imax) 821.655
(20%Imax) 1643.31
(30%Imax) 2464.96
(40%Imax) 3286.62
(50%Imax) 4108.27
(60%Imax) 4929.93
(70%Imax) 5751.58
(80%Imax) 6573.24
(90%Imax) 7394.9

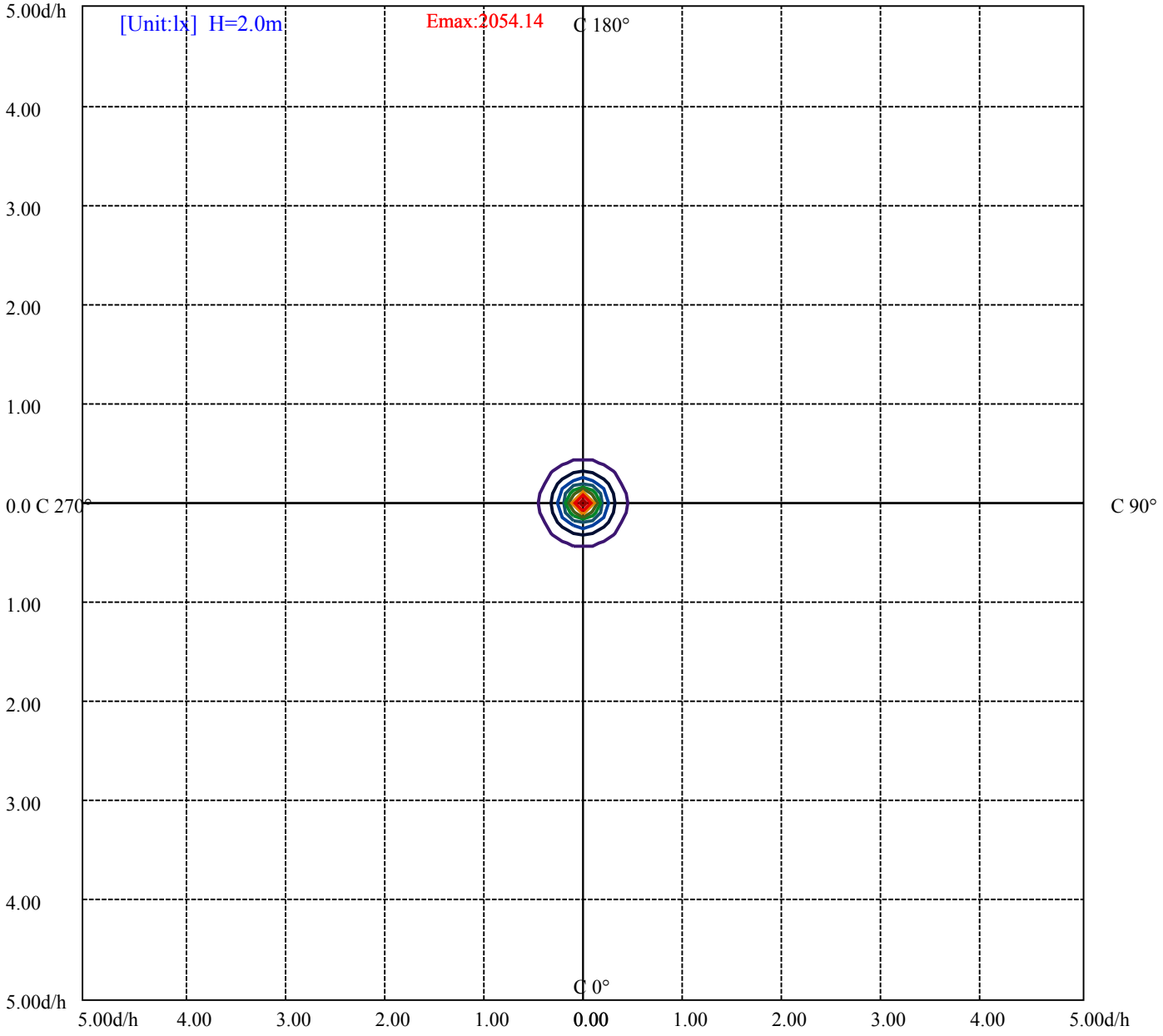
Equipment: GMS1980
Temperature(°C): 0.0

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

Operator: NT07
Distance(m): 7.44

NT 1-1381-L

ISO illuminance diagram



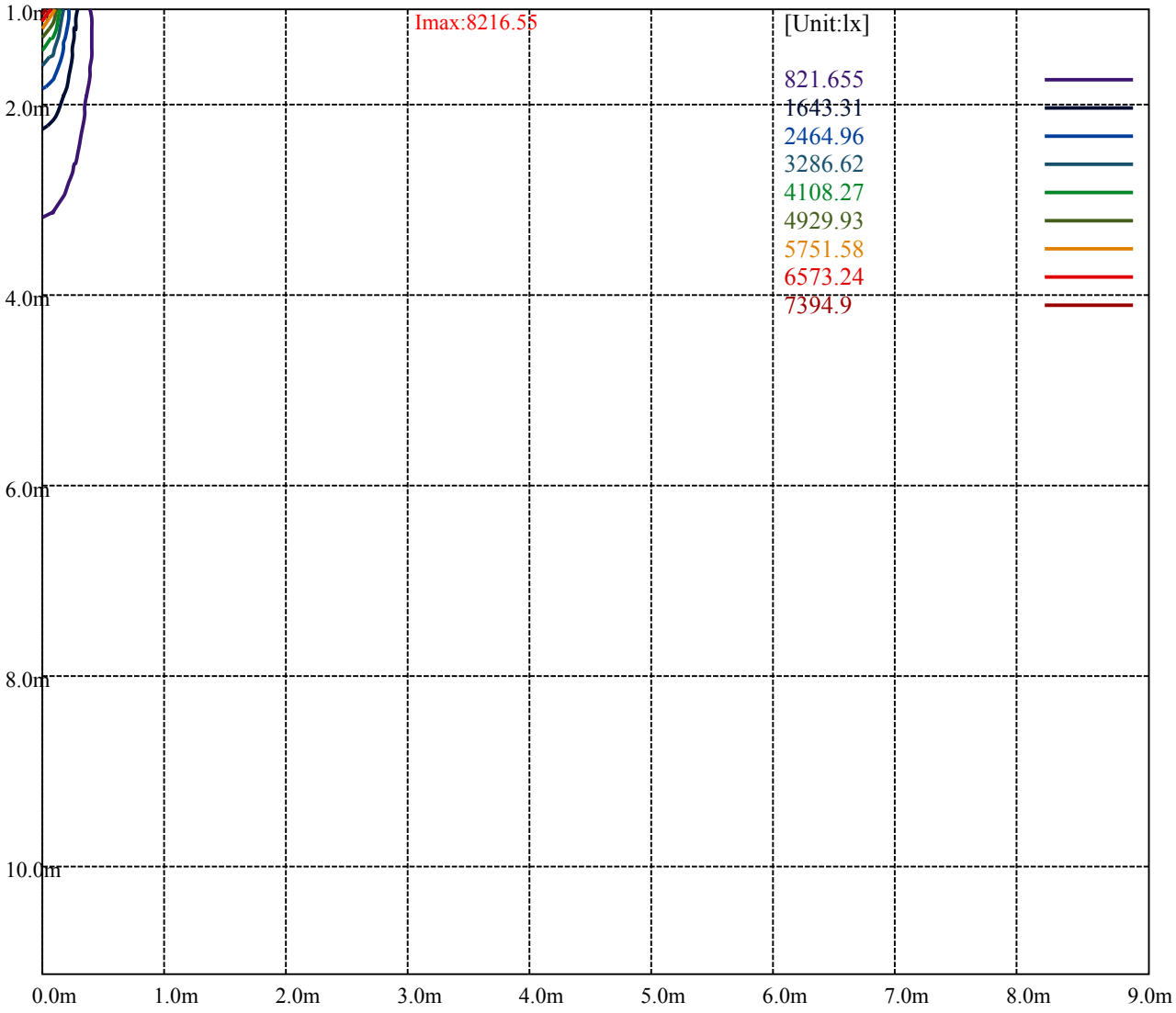
(10%Emax) 205.4135
(20%Emax) 410.8275
(30%Emax) 616.24
(40%Emax) 821.6525
(50%Emax) 1027.068
(60%Emax) 1232.48
(70%Emax) 1437.895
(80%Emax) 1643.307
(90%Emax) 1848.72

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

Luminance Limitting Curve(no luminous side)

Luminance Table

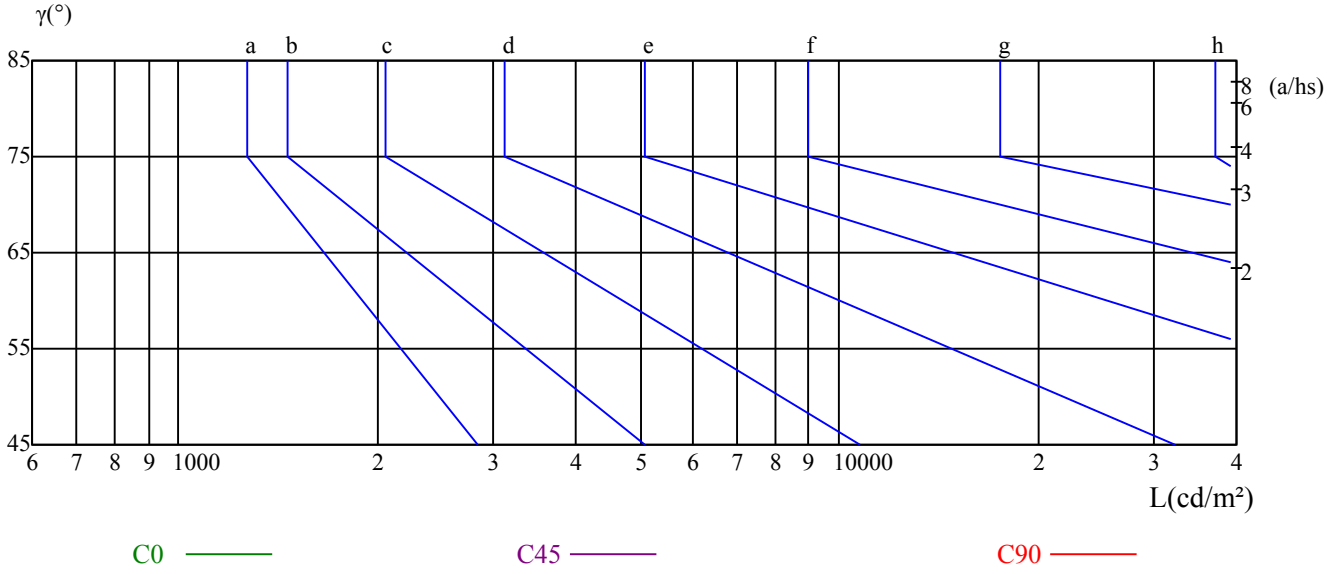
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

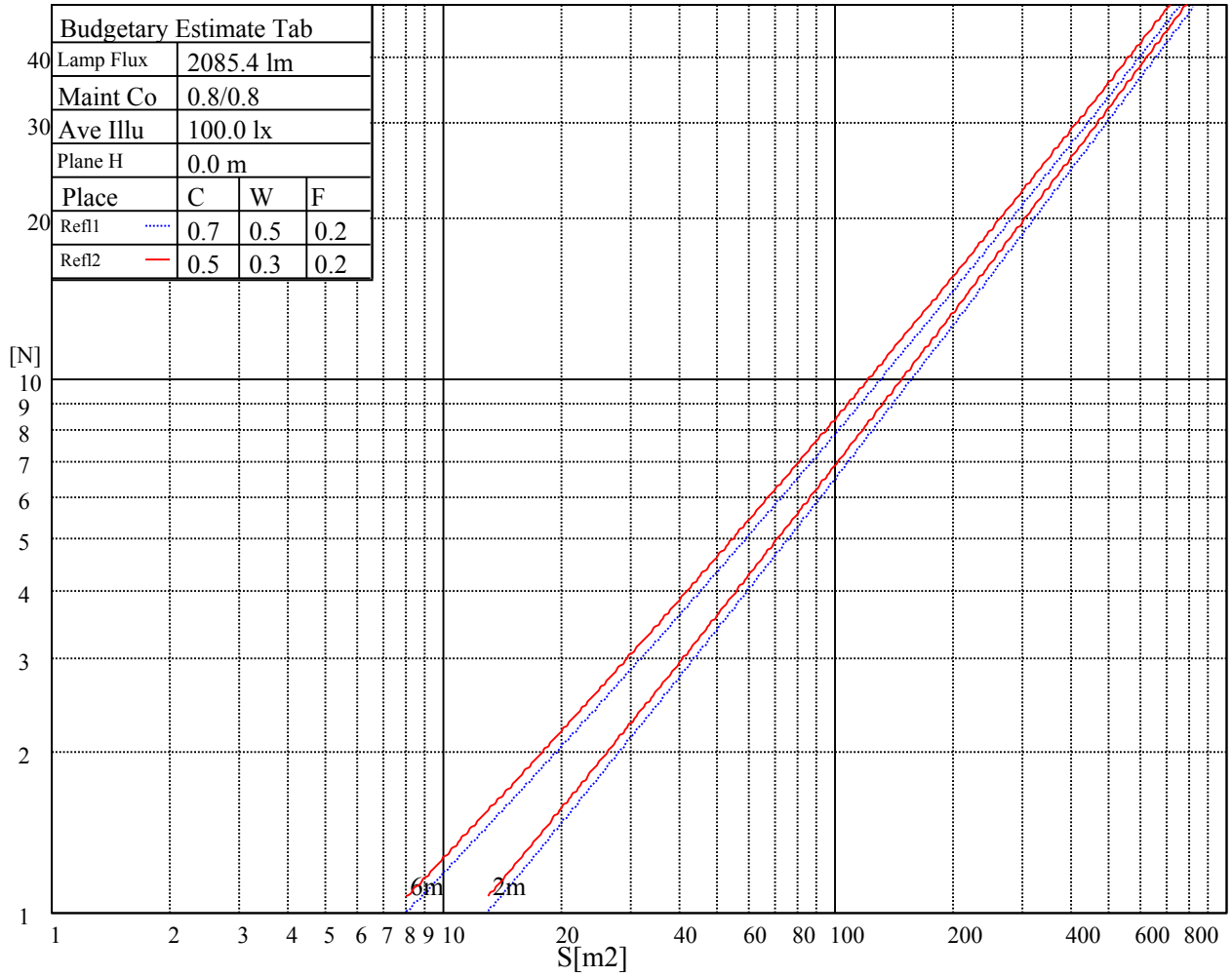
Luminance Limitting Curve



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

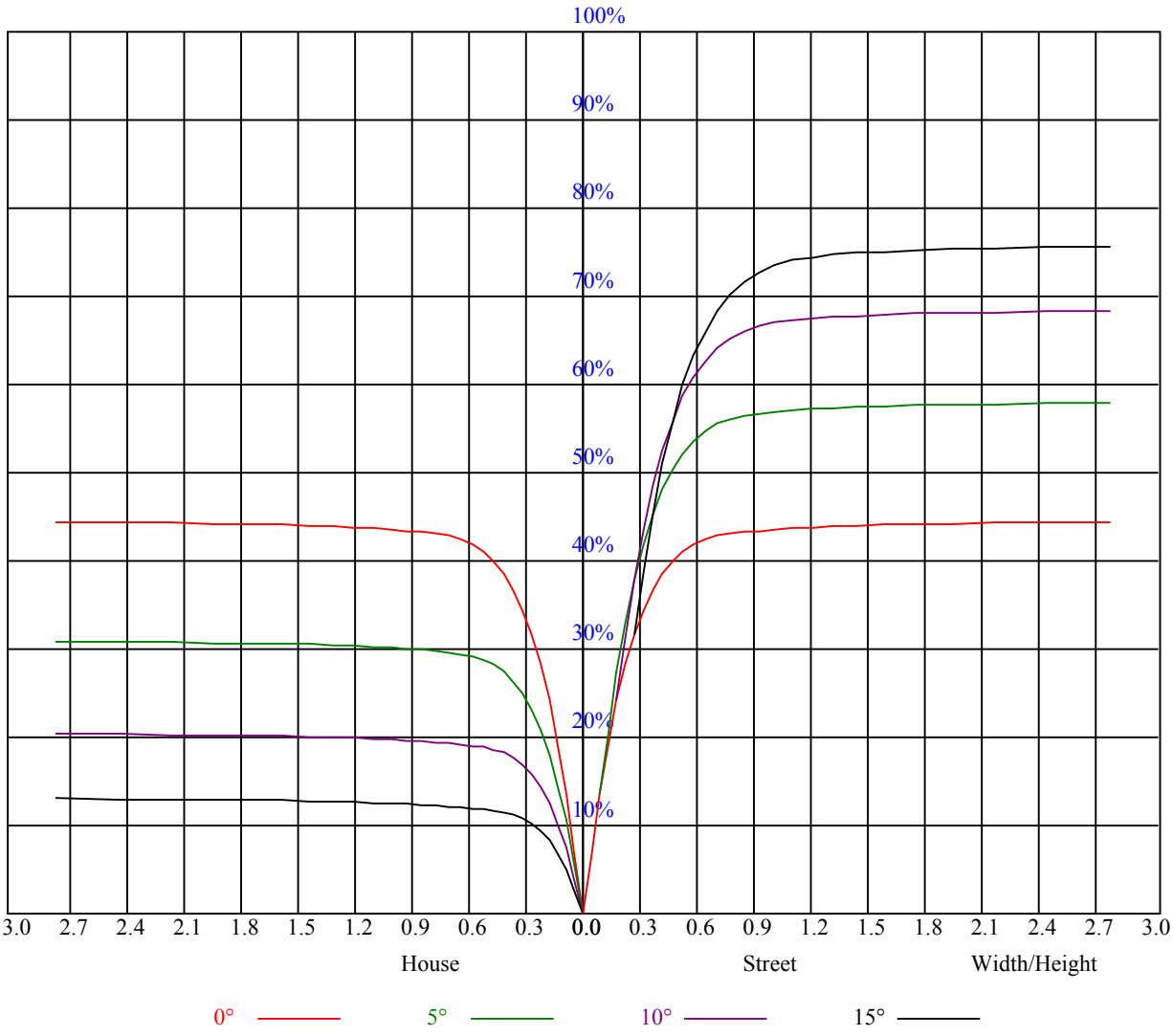


Equipment: GMS1980	Date: 2023/11/20	Operator: NT07
Temperature(°C): 0.0	Humidity(%): 0.0%	Distance(m): 7.44

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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.90
1	1.00	0.98	0.96	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.94	0.91	0.89	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	0.81	0.79	0.82	0.80	0.78	0.77
4	0.85	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	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	0.72	0.76	0.74	0.72	0.71
6	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
7	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.65
8	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
9	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.61
10	0.67	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	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	8173.51	7906.15	7539.71	7089.69	6418.80	5852.54	5292.36	4777.57	4175.32
45.0	8277.58	8119.82	7838.62	7336.01	6854.44	6315.29	5745.15	5065.41	4547.85
90.0	8113.73	7717.95	7301.69	6832.85	6300.90	5610.09	5076.48	4430.50	3991.55
135.0	8301.38	8160.23	7903.94	7445.61	6986.73	6345.74	5801.06	5255.82	4602.10
180.0	8173.51	8274.26	8222.78	7995.27	7681.42	7164.97	6682.29	6147.57	5573.00
225.0	8277.58	8251.56	8077.20	7693.60	7275.12	6786.35	6102.18	5530.38	4964.11
270.0	8113.73	8278.13	8319.09	8186.24	7866.30	7472.74	7020.50	6333.56	5755.11
315.0	8301.38	8300.27	8124.80	7844.16	7443.40	6952.41	6273.22	5690.90	5123.53
360.0	8173.51	7906.15	7539.71	7089.69	6418.80	5852.54	5292.36	4777.57	4175.32

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3760.72	3407.57	3114.19	2788.71	2560.10	2311.57	2126.69	1960.62	1777.40
45.0	4086.76	3694.30	3284.68	3005.15	2755.50	2530.21	2282.23	2101.78	1903.06
90.0	3616.80	3219.37	2948.13	2704.58	2487.04	2250.12	2076.31	1913.02	1766.89
135.0	4136.57	3734.71	3391.52	3018.43	2769.89	2541.28	2330.94	2095.13	1929.07
180.0	4896.58	4388.99	3924.57	3542.63	3136.33	2871.19	2632.62	2415.08	2176.50
225.0	4437.14	3880.29	3511.63	3199.44	2928.21	2629.30	2423.93	2230.75	2017.09
270.0	5190.51	4547.85	4070.15	3564.22	3234.31	2959.20	2712.88	2439.43	2241.82
315.0	4601.54	4005.94	3606.29	3210.51	2929.87	2685.20	2413.97	2221.89	2041.44
360.0	3760.72	3407.57	3114.19	2788.71	2560.10	2311.57	2126.69	1960.62	1777.40

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1639.02	1502.85	1373.88	1082.44	1082.44	1006.61	921.69	819.90	735.76
45.0	1759.14	1625.74	1459.12	1334.02	1215.01	1107.07	981.42	898.94	819.79
90.0	1599.17	1470.19	1345.65	1082.55	1082.55	982.30	880.73	802.52	719.76
135.0	1779.62	1611.34	1480.71	1351.18	1205.60	1096.55	972.01	885.10	808.72
180.0	1999.37	1816.71	1667.80	1537.17	1381.63	1257.63	1144.16	1047.84	925.51
225.0	1863.20	1677.77	1538.83	1410.96	1096.78	1096.78	1044.97	952.80	872.37
270.0	2071.89	1915.79	1726.48	1591.97	1463.55	1334.58	1189.00	1083.27	988.06
315.0	1847.70	1697.69	1558.76	1424.25	1104.42	1104.42	1052.33	963.76	884.88
360.0	1639.02	1502.85	1373.88	1082.44	1082.44	1006.61	921.69	819.90	735.76

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	654.22	577.12	487.22	413.27	327.42	264.65	208.96	153.44	125.76
45.0	736.20	635.46	557.96	482.13	389.14	317.73	285.62	285.62	146.63
90.0	624.39	548.33	471.00	379.67	311.25	250.53	197.17	147.57	123.66
135.0	726.79	626.05	550.21	482.13	410.72	346.51	282.30	282.30	159.25
180.0	850.23	764.99	687.49	591.18	520.32	441.72	360.91	300.02	283.96
225.0	773.68	696.96	619.24	542.24	448.36	374.47	288.78	230.05	179.57
270.0	886.21	802.63	702.44	624.94	546.89	468.29	372.53	303.89	287.84
315.0	781.32	697.18	600.92	528.57	433.03	364.39	300.51	239.29	176.52
360.0	654.22	577.12	487.22	413.27	327.42	264.65	208.96	153.44	125.76

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	109.27	97.31	84.47	75.61	67.92	61.50	54.69	50.10	46.00
45.0	121.39	103.29	92.77	83.58	75.28	66.31	60.56	55.63	51.26
90.0	109.32	98.92	87.68	79.71	72.46	65.04	59.73	54.14	50.04
135.0	118.40	100.69	89.84	79.27	71.90	63.77	58.34	53.86	49.76
180.0	210.40	133.62	110.82	94.93	85.69	77.66	70.63	62.88	57.84
225.0	133.96	113.03	100.91	88.84	80.32	72.46	65.70	58.62	53.64
270.0	287.84	138.38	116.02	103.01	92.72	80.98	72.73	64.04	58.29
315.0	140.43	118.79	105.84	94.05	81.65	73.01	65.70	58.12	53.31
360.0	109.27	97.31	84.47	75.61	67.92	61.50	54.69	50.10	46.00

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	41.68	38.80	36.20	33.60	31.88	29.95	28.62	27.62	26.68
45.0	46.22	42.79	39.97	36.70	34.60	32.82	30.61	29.28	28.12
90.0	46.39	43.29	39.80	37.64	35.59	33.71	31.72	30.56	29.39
135.0	45.22	42.07	39.36	36.98	34.32	32.55	30.89	29.28	28.17
180.0	53.31	49.32	45.00	41.85	39.30	36.42	34.60	32.99	31.00
225.0	49.49	45.72	41.52	38.80	36.31	33.88	32.11	30.06	28.78
270.0	53.36	48.05	44.34	41.13	38.36	35.48	33.60	31.94	30.33
315.0	47.99	44.39	41.24	37.97	35.65	33.82	32.16	30.06	28.73
360.0	41.68	38.80	36.20	33.60	31.88	29.95	28.62	27.62	26.68

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.68	25.02	24.52	24.13	23.53	23.03	22.64	21.81	20.65
45.0	27.23	26.40	25.85	25.41	24.85	24.08	23.69	23.03	21.92
90.0	28.17	27.46	26.96	26.02	25.30	24.91	23.86	22.64	21.59
135.0	27.40	26.51	25.79	25.30	24.63	23.97	23.53	22.86	21.53
180.0	29.84	28.56	27.62	26.79	26.24	25.74	25.08	24.47	23.91
225.0	27.90	26.74	25.85	25.19	24.80	24.36	23.58	23.08	22.47
270.0	28.67	27.79	26.90	25.74	25.24	24.91	24.19	23.47	22.75
315.0	27.79	26.85	25.74	25.08	24.63	23.86	23.25	22.64	21.75
360.0	25.68	25.02	24.52	24.13	23.53	23.03	22.64	21.81	20.65

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.82	18.60	17.60	16.77	15.78	15.17	14.56	14.06	13.51
45.0	20.92	19.65	18.60	17.66	16.72	16.00	15.33	14.61	14.12
90.0	20.65	19.32	18.32	17.55	16.83	16.00	15.50	15.00	14.45
135.0	20.54	19.54	18.60	17.44	16.72	16.00	15.17	14.61	14.00
180.0	22.86	21.70	20.65	19.65	18.38	17.55	16.55	15.89	15.28
225.0	21.48	20.26	19.37	18.38	17.27	16.50	15.61	15.00	14.45
270.0	22.03	20.92	19.98	18.82	17.77	16.94	16.22	15.39	14.83
315.0	20.70	19.60	18.71	17.77	16.99	16.33	15.44	14.83	14.34
360.0	19.82	18.60	17.60	16.77	15.78	15.17	14.56	14.06	13.51

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.01	12.68	12.29	11.79	11.46	11.13	10.74	10.46	10.19
45.0	13.67	13.17	12.68	12.29	11.90	11.57	11.13	10.85	10.52
90.0	14.00	13.56	13.01	12.73	12.29	11.85	11.46	11.13	10.85
135.0	13.56	13.12	12.68	12.29	12.01	11.68	11.40	11.13	10.96
180.0	14.56	14.06	13.62	13.12	12.62	12.23	11.85	11.51	11.02
225.0	14.00	13.45	13.01	12.62	12.23	11.73	11.40	11.07	10.68
270.0	14.34	13.73	13.34	12.95	12.45	12.07	11.68	11.24	10.90
315.0	13.89	13.34	12.95	12.57	12.07	11.68	11.24	10.85	10.63
360.0	13.01	12.68	12.29	11.79	11.46	11.13	10.74	10.46	10.19

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.96	9.69	9.47	9.02	8.80	8.64	8.52	8.14	8.08
45.0	10.19	9.96	9.63	9.47	9.02	8.64	8.47	8.52	7.97
90.0	10.57	10.13	9.80	9.47	8.69	8.52	8.64	8.03	8.19
135.0	10.68	10.41	10.07	9.63	9.35	8.69	8.58	8.58	8.14
180.0	10.74	10.35	10.07	9.80	9.52	9.19	8.80	8.58	8.47
225.0	10.35	10.07	9.74	9.47	9.24	8.91	8.64	8.47	8.47
270.0	10.57	10.24	10.02	9.74	9.47	9.24	8.75	8.58	8.41
315.0	10.35	10.19	9.85	9.52	9.24	8.80	8.64	8.52	8.52
360.0	9.96	9.69	9.47	9.02	8.80	8.64	8.52	8.14	8.08

Intensity data(cd)

C/γ(°)	90.0
0.0	8.25
45.0	8.19
90.0	8.41
135.0	8.25
180.0	8.08
225.0	8.03
270.0	8.08
315.0	8.03
360.0	8.25