NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:
LumCAT: 1-1378-L
Luminaire: 92.70.410.00
Report No: 20231109-B015
Ballast type: AC

Test No: 20231109-C015	Voltage(V): 34.750
LampCAT: Fortimo_SLM_C_1204	Current(A): 0.320
Lamp flux(lm): 1771.7	Power (W): 11.120
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1595.71, Efficiency(%): 90.07% , Luminous Efficacy(lm/W): 143.50
Central intensity(cd): 5507.268, Maximum intensity(cd): 5507.268
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=26.4
[C90/270]Total=26.4
Field angle(10%Imax): [C0/180]Total=55.0
[C90/270]Total=55.0
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(%): 90.07%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.910%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5507.268	0.000	0	0.00%	0.00%
1.0	5479.591	5.257	5.257	0.30%	0.33%
2.0	5412.060	15.633	20.89	0.88%	1.31%
3.0	5297.063	25.613	46.502	1.45%	2.91%
4.0	5148.231	34.964	81.466	1.97%	5.11%
5.0	4958.506	43.479	124.945	2.45%	7.83%
6.0	4729.273	50.912	175.857	2.87%	11.02%
7.0	4487.378	57.208	233.064	3.23%	14.61%
8.0	4225.832	62.359	295.423	3.52%	18.51%
9.0	3946.919	66.236	361.659	3.74%	22.66%
10.0	3664.201	68.878	430.537	3.89%	26.98%
11.0	3379.199	70.378	500.915	3.97%	31.39%
12.0	3092.329	70.743	571.658	3.99%	35.82%
13.0	2803.867	69.973	641.631	3.95%	40.21%
14.0	2535.402	68.342	709.973	3.86%	44.49%
15.0	2278.147	66.083	776.055	3.73%	48.63%
16.0	2034.245	63.189	839.244	3.57%	52.59%
17.0	1831.581	60.201	899.445	3.40%	56.37%
18.0	1641.096	57.257	956.702	3.23%	59.95%
19.0	1449.898	53.777	1010.479	3.04%	63.32%
20.0	1256.153	49.528	1060.007	2.80%	66.43%
21.0	1182.180	46.821	1106.828	2.64%	69.36%
22.0	1092.625	45.713	1152.542	2.58%	72.23%
23.0	991.321	43.727	1196.268	2.47%	74.97%
24.0	894.058	41.221	1237.489	2.33%	77.55%
25.0	789.820	38.288	1275.777	2.16%	79.95%
26.0	693.747	35.020	1310.797	1.98%	82.14%
27.0	599.376	31.637	1342.433	1.79%	84.13%
28.0	508.416	28.047	1370.48	1.58%	85.89%
29.0	428.914	24.523	1395.004	1.38%	87.42%
30.0	349.378	21.014	1416.017	1.19%	88.74%
31.0	282.587	17.587	1433.604	0.99%	89.84%
32.0	235.959	14.856	1448.46	0.84%	90.77%
33.0	205.134	12.995	1461.454	0.73%	91.59%
34.0	140.363	10.456	1471.91	0.59%	92.24%
35.0	113.509	7.884	1479.794	0.45%	92.74%
36.0	100.266	6.807	1486.601	0.38%	93.16%
37.0	89.832	6.200	1492.801	0.35%	93.55%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	81.280	5.711	1498.513	0.32%	93.91%
39.0	73.779	5.293	1503.805	0.30%	94.24%
40.0	67.012	4.910	1508.715	0.28%	94.55%
41.0	60.986	4.558	1513.273	0.26%	94.83%
42.0	55.630	4.237	1517.51	0.24%	95.10%
43.0	51.001	3.950	1521.46	0.22%	95.35%
44.0	46.905	3.695	1525.156	0.21%	95.58%
45.0	42.954	3.453	1528.609	0.19%	95.79%
46.0	39.516	3.225	1531.834	0.18%	96.00%
47.0	36.450	3.021	1534.856	0.17%	96.19%
48.0	33.849	2.842	1537.697	0.16%	96.36%
49.0	31.171	2.670	1540.367	0.15%	96.53%
50.0	29.068	2.512	1542.879	0.14%	96.69%
51.0	26.999	2.372	1545.251	0.13%	96.84%
52.0	25.338	2.246	1547.497	0.13%	96.98%
53.0	23.712	2.134	1549.631	0.12%	97.11%
54.0	22.425	2.034	1551.664	0.11%	97.24%
55.0	21.187	1.947	1553.611	0.11%	97.36%
56.0	20.142	1.868	1555.478	0.11%	97.48%
57.0	19.242	1.801	1557.279	0.10%	97.59%
58.0	18.433	1.742	1559.021	0.10%	97.70%
59.0	17.720	1.690	1560.712	0.10%	97.81%
60.0	17.063	1.643	1562.355	0.09%	97.91%
61.0	16.454	1.599	1563.954	0.09%	98.01%
62.0	15.859	1.557	1565.511	0.09%	98.11%
63.0	15.278	1.514	1567.026	0.09%	98.20%
64.0	14.786	1.475	1568.501	0.08%	98.29%
65.0	14.240	1.436	1569.937	0.08%	98.38%
66.0	13.748	1.396	1571.334	0.08%	98.47%
67.0	13.278	1.359	1572.693	0.08%	98.56%
68.0	12.807	1.321	1574.014	0.07%	98.64%
69.0	12.330	1.282	1575.296	0.07%	98.72%
70.0	11.943	1.247	1576.543	0.07%	98.80%
71.0	11.555	1.214	1577.758	0.07%	98.87%
72.0	11.119	1.179	1578.937	0.07%	98.95%
73.0	10.752	1.144	1580.08	0.06%	99.02%
74.0	10.434	1.114	1581.194	0.06%	99.09%
75.0	10.061	1.083	1582.277	0.06%	99.16%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.749	1.052	1583.329	0.06%	99.22%
77.0	9.459	1.024	1584.353	0.06%	99.29%
78.0	9.168	0.997	1585.35	0.06%	99.35%
79.0	8.919	0.972	1586.321	0.05%	99.41%
80.0	8.670	0.948	1587.27	0.05%	99.47%
81.0	8.435	0.925	1588.195	0.05%	99.53%
82.0	8.255	0.905	1589.1	0.05%	99.59%
83.0	8.075	0.888	1589.987	0.05%	99.64%
84.0	7.881	0.869	1590.857	0.05%	99.70%
85.0	7.673	0.849	1591.706	0.05%	99.75%
86.0	7.480	0.828	1592.534	0.05%	99.80%
87.0	7.369	0.813	1593.346	0.05%	99.85%
88.0	7.314	0.804	1594.151	0.05%	99.90%
89.0	7.058	0.788	1594.938	0.04%	99.95%
90.0	7.037	0.773	1595.711	0.04%	100.00%

Zonal flux distribution table

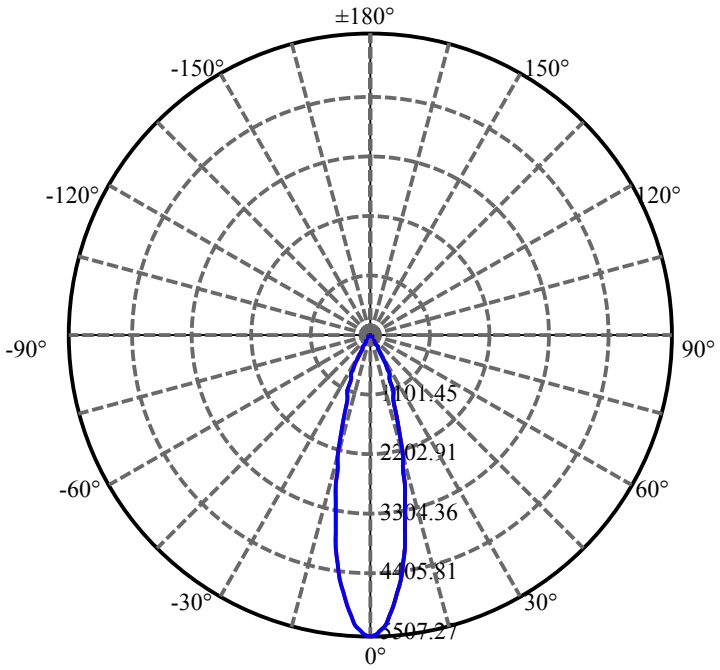
ZONAL LUMEN SUMMARY

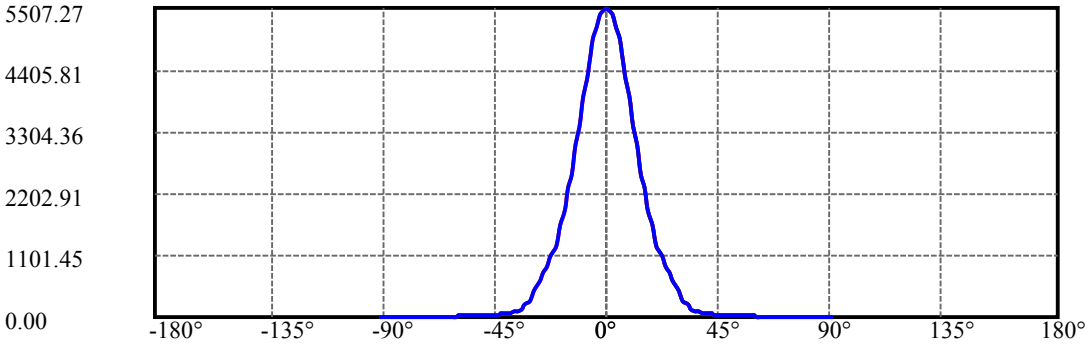
Zone	Lumens	%Lamp	%Fixt
0-30	1416.02	79.93%	88.74%
0-40	1508.72	85.16%	94.55%
0-60	1562.35	88.19%	97.91%
0-90	1594.94	90.02%	99.95%
0-120	1594.94	90.02%	99.95%
0-180	1595.71	90.07%	100.00%
60-90	32.58	1.84%	2.04%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-25.02	1276.57	72.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	430.54
10-20	629.47
20-30	356.01
30-40	92.70
40-50	34.16
50-60	19.48
60-70	14.19
70-80	10.73
80-90	7.67
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):

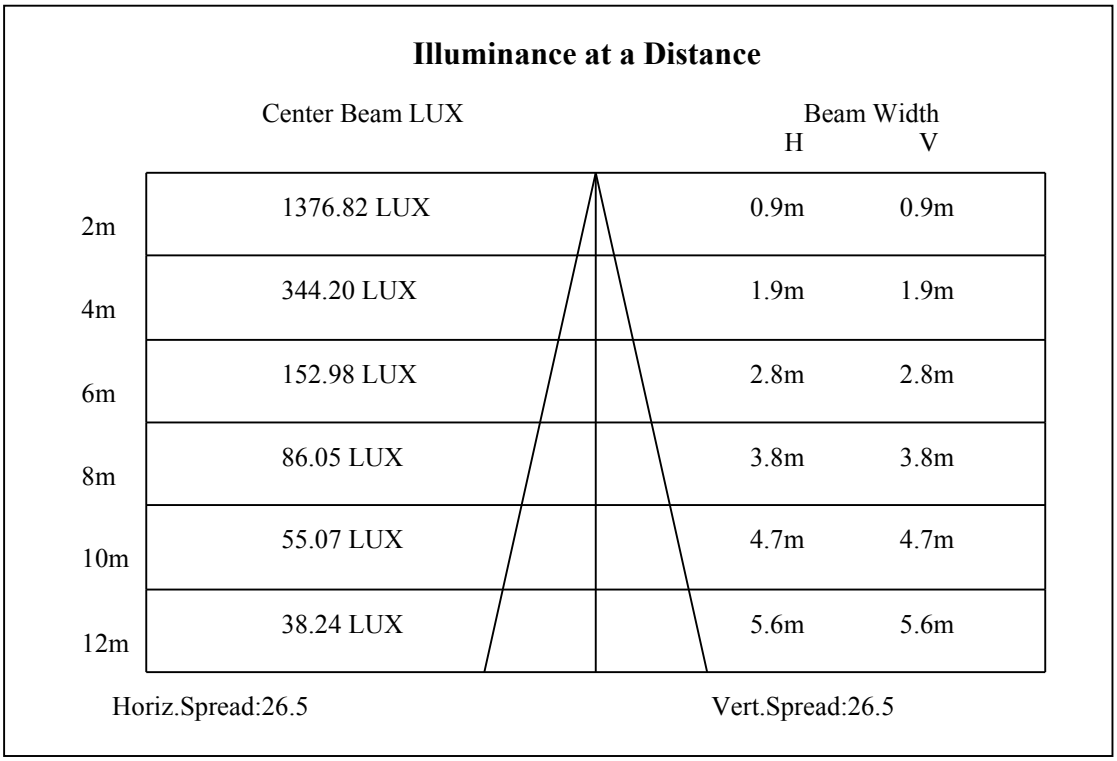
C0/C180:

C90/C270:

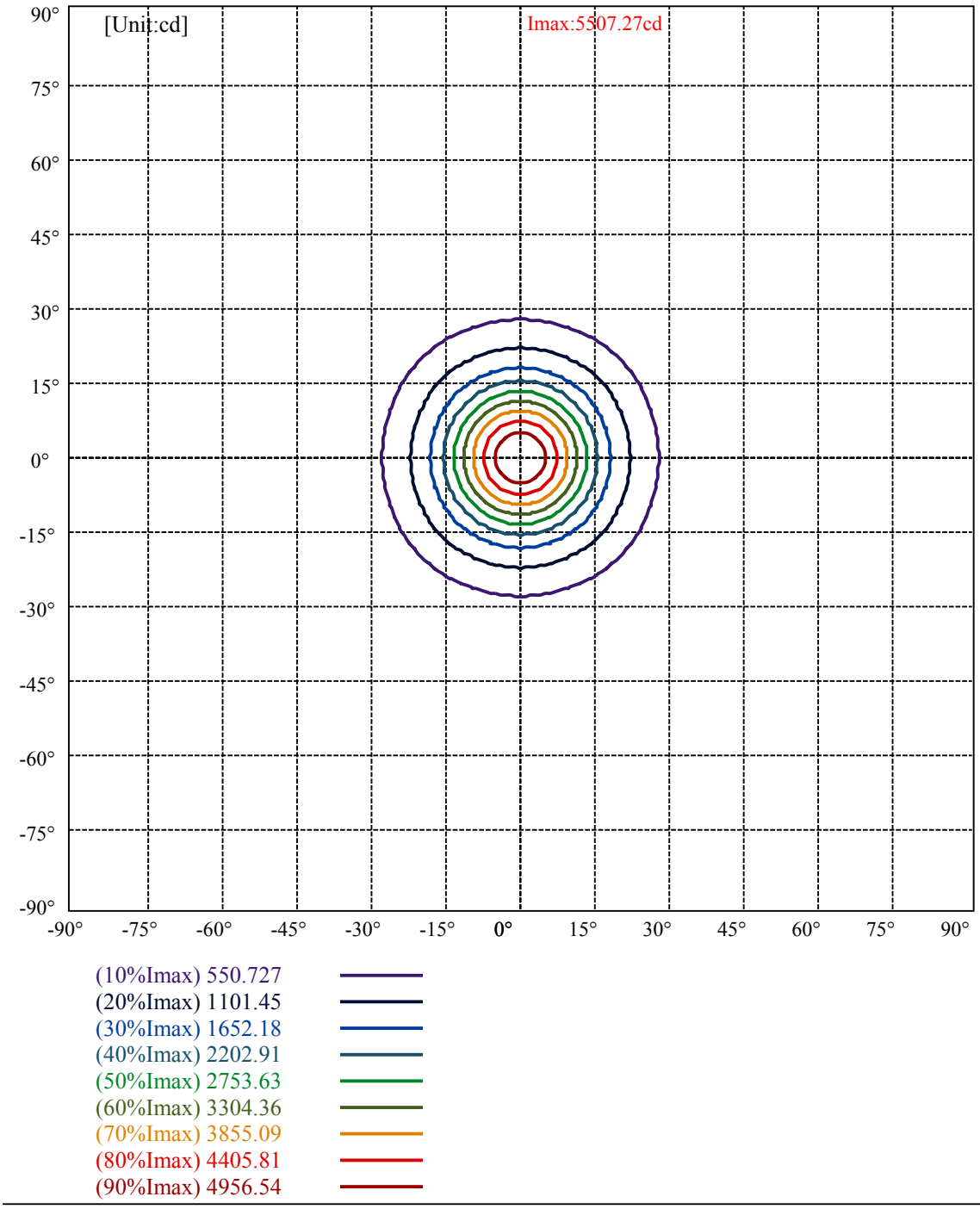
Field angle(10%Imax):C0/180Left:27.5 Right:27.5
:C90/270Left:27.5 Right:27.5

Beam Angle(50%Imax):C0/180Left:13.2 Right:13.2
:C90/270Left:13.2 Right:13.2

Lux distance Curve



ISO-Intensity(V-H)

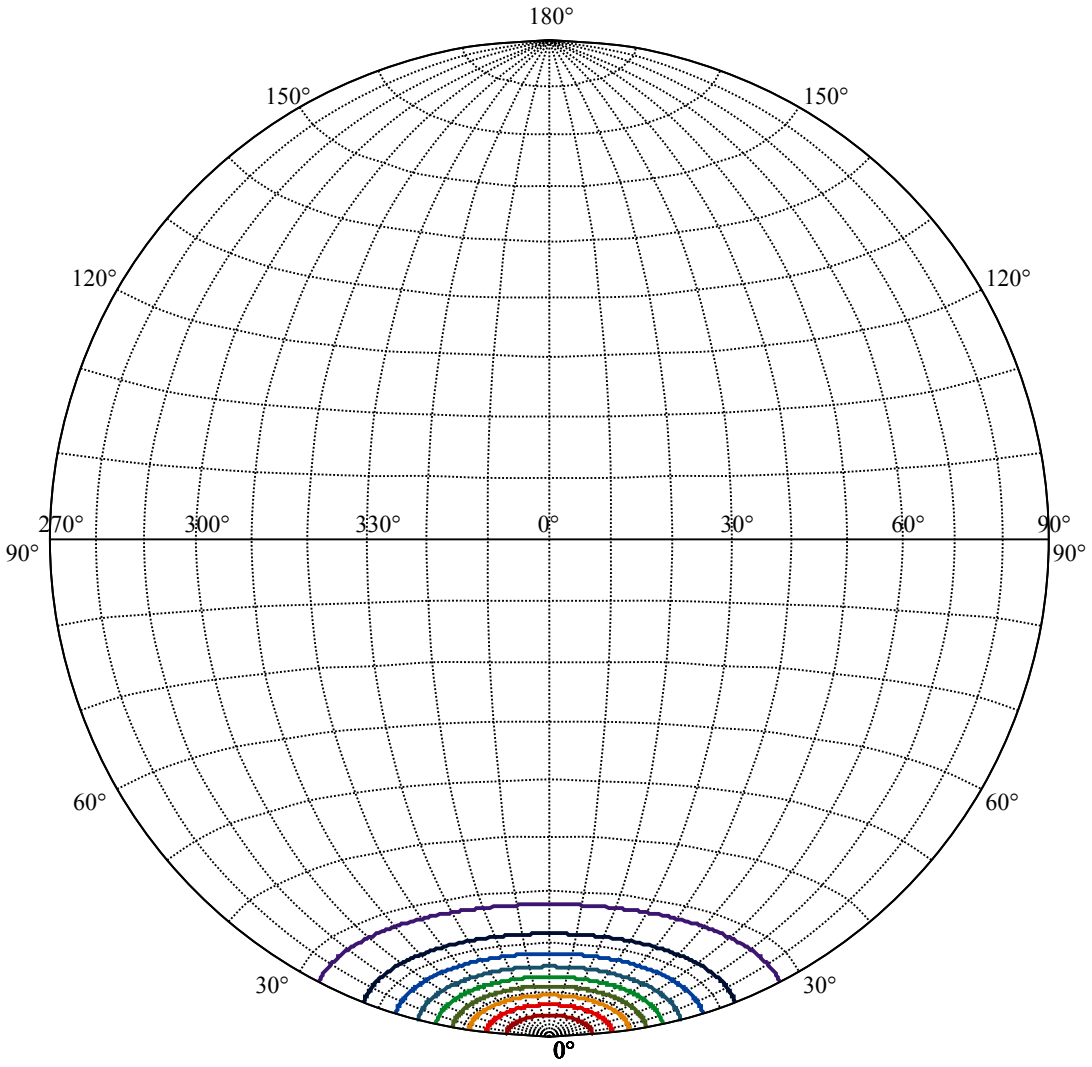


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:5507.27

(10%Imax) 550.727
(20%Imax) 1101.45
(30%Imax) 1652.18
(40%Imax) 2202.91
(50%Imax) 2753.63
(60%Imax) 3304.36
(70%Imax) 3855.09
(80%Imax) 4405.81
(90%Imax) 4956.54

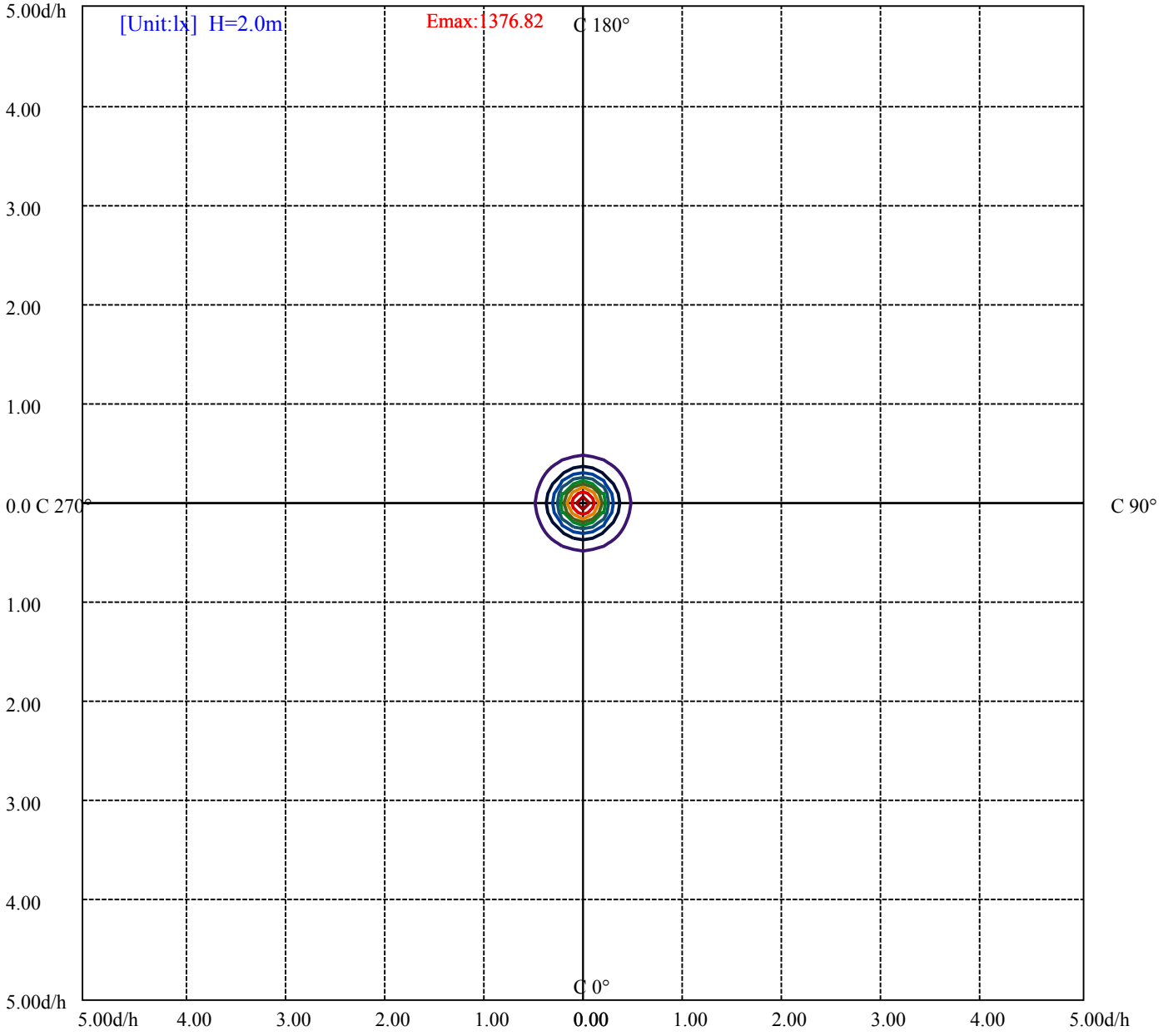
Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1378-L

ISO illuminance diagram

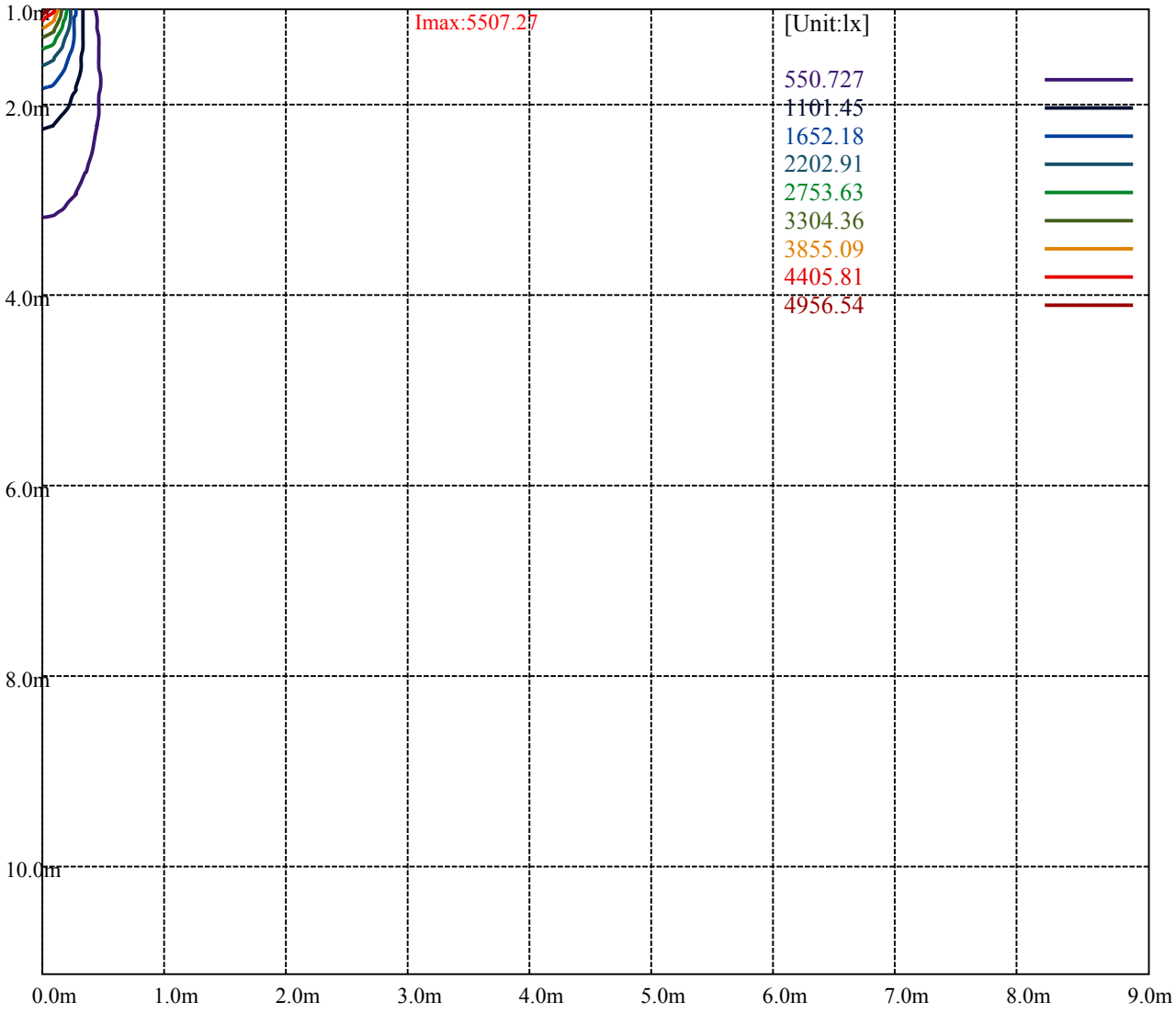


Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/09
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

NT 1-1378-L

Luminance Limitting Curve(no luminous side)

Luminance Table

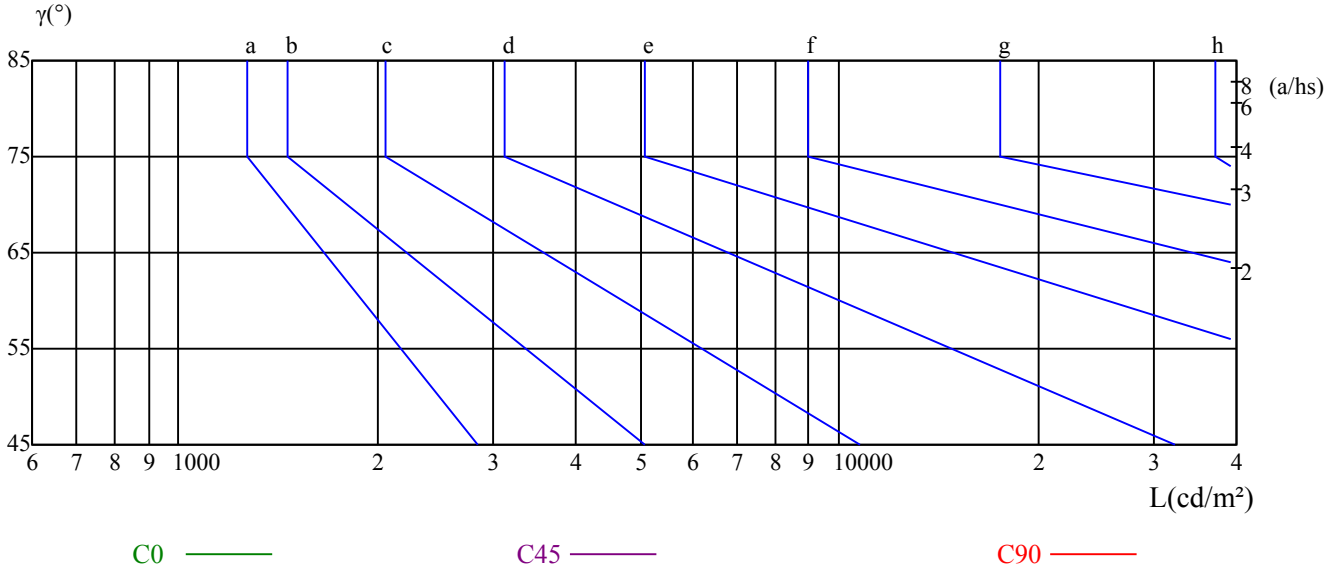
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

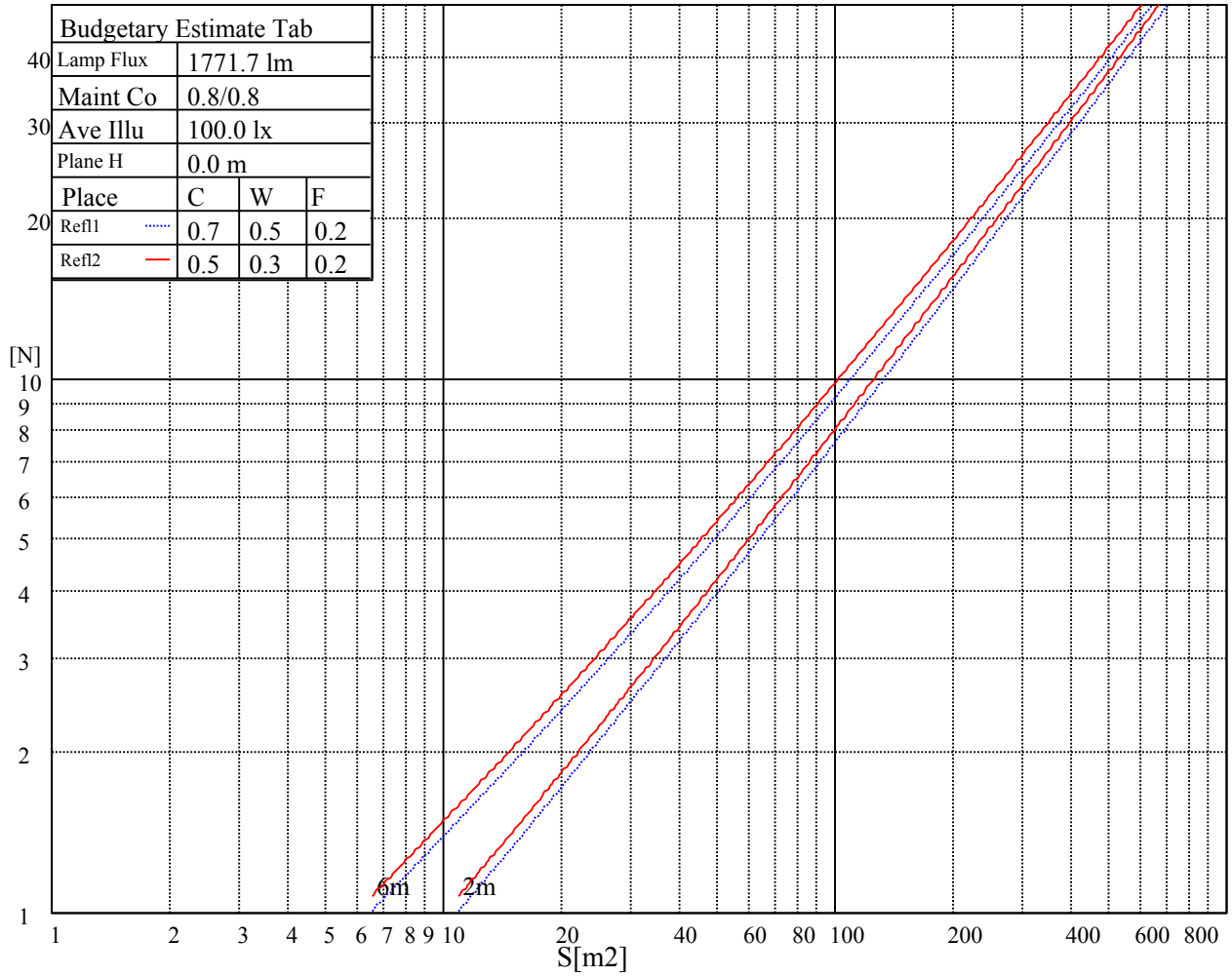
Date: 2023/11/09
Humidity(%): 0.0%

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

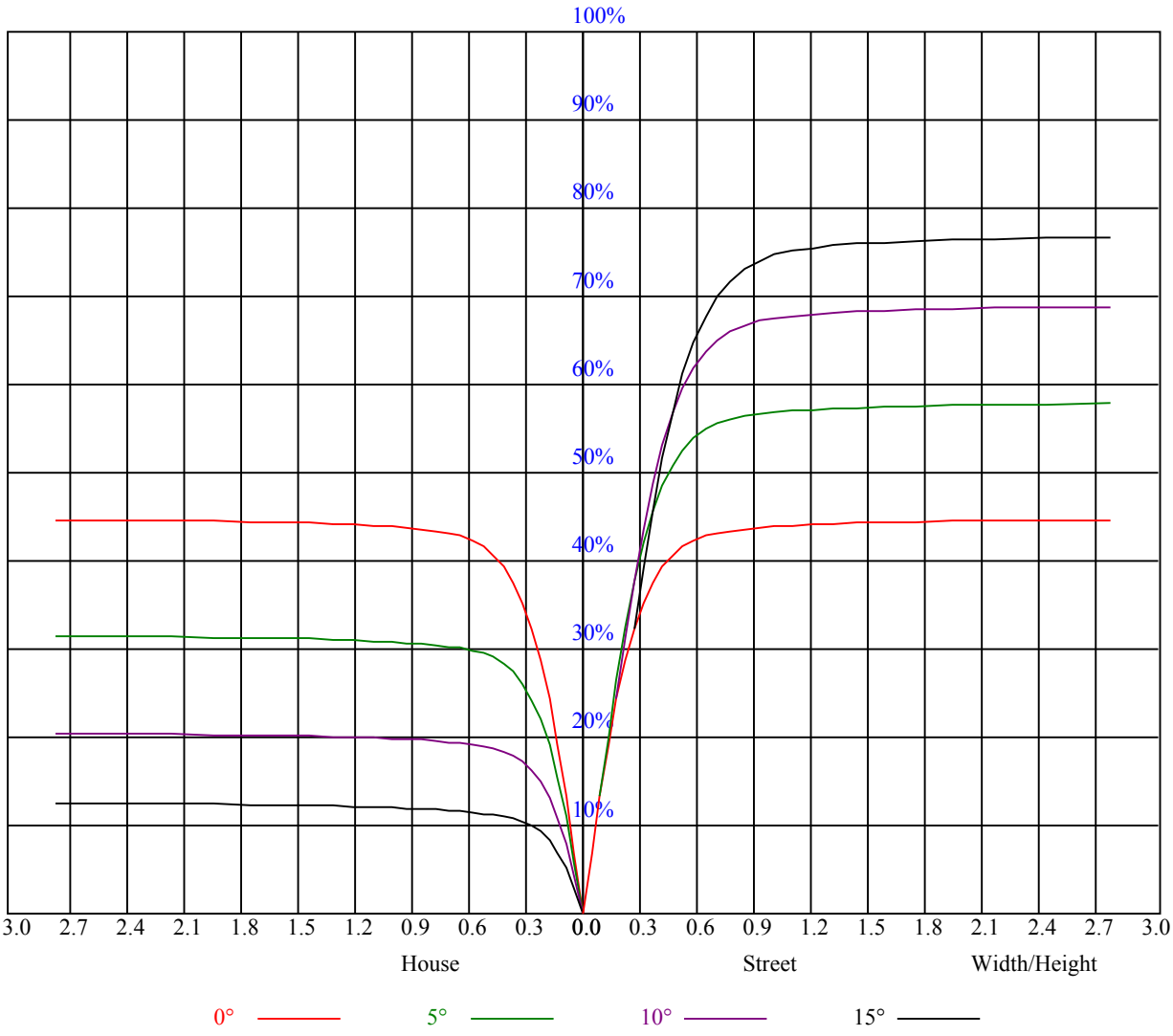


Equipment: GMS1980 Date: 2023/11/09 Operator: NT07
Temperature(°C): 0.0 Humidity(%): 0.0% Distance(m): 7.44

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	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.95	0.95	0.94	0.92	0.92	0.91	0.90	0.89	0.88	0.87	0.85
2	0.95	0.92	0.89	0.93	0.91	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.86	0.84	0.83	0.81
3	0.90	0.86	0.83	0.89	0.85	0.83	0.87	0.84	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.77	0.75	0.74
5	0.82	0.78	0.75	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.77	0.74	0.72	0.71
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.69	0.68
7	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.67	0.64	0.62	0.61
10	0.68	0.63	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2023/11/09	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	5491.63	5401.96	5290.14	5142.35	4954.70	4687.34	4455.41	4210.19	3956.68
45.0	5515.43	5517.65	5479.45	5379.26	5251.40	5084.78	4891.60	4613.72	4376.26
90.0	5517.65	5467.28	5410.81	5262.47	5106.92	4914.85	4642.51	4406.15	4089.52
135.0	5504.36	5507.13	5440.71	5363.76	5189.95	5021.68	4832.37	4611.51	4311.49
180.0	5491.63	5519.31	5494.40	5431.30	5336.64	5162.83	4985.15	4777.02	4545.08
225.0	5515.43	5452.33	5364.32	5213.20	5043.27	4850.64	4560.03	4315.37	4057.42
270.0	5517.65	5505.47	5457.86	5348.82	5229.81	5065.96	4867.24	4591.58	4351.35
315.0	5504.36	5465.61	5358.78	5235.34	5073.16	4879.97	4599.88	4373.49	4118.86
360.0	5491.63	5401.96	5290.14	5142.35	4954.70	4687.34	4455.41	4210.19	3956.68

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3623.45	3353.32	3078.77	2811.96	2490.36	2255.11	1982.21	1781.28	1608.02
45.0	4129.38	3870.88	3538.76	3266.97	2995.18	2665.83	2412.86	2174.84	1911.91
90.0	3840.99	3556.47	3223.24	2948.69	2687.97	2444.41	2150.49	1935.16	1750.28
135.0	4059.63	3803.35	3538.76	3202.76	2934.85	2671.36	2429.47	2138.31	1930.18
180.0	4243.96	3986.01	3714.23	3444.10	3099.25	2833.55	2578.37	2296.07	2076.31
225.0	3798.36	3467.35	3192.80	2924.88	2670.81	2377.99	2156.02	1900.29	1722.05
270.0	4098.93	3764.04	3498.35	3158.48	2889.46	2622.65	2328.73	2115.61	1909.15
315.0	3780.65	3512.19	3248.70	2980.79	2663.06	2412.31	2187.02	1932.39	1744.75
360.0	3623.45	3353.32	3078.77	2811.96	2490.36	2255.11	1982.21	1781.28	1608.02

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1422.03	1097.50	1097.50	1072.53	959.11	863.85	770.41	678.25	571.80
45.0	1720.39	1556.54	1372.22	1247.12	1139.18	1042.86	926.07	830.86	737.31
90.0	1589.20	1404.87	1088.31	1088.31	1041.04	946.93	848.29	733.10	643.87
135.0	1703.78	1547.13	1403.21	1253.21	1147.48	1053.93	961.49	838.05	743.95
180.0	1876.49	1658.39	1497.87	1331.25	1213.90	1114.82	1023.49	905.58	806.50
225.0	1559.31	1418.16	1103.58	1103.58	1059.14	938.02	840.66	747.83	658.54
270.0	1722.05	1522.22	1385.50	1260.40	1146.93	1032.90	939.35	836.95	729.01
315.0	1535.51	1394.36	1101.04	1101.04	1034.23	937.25	842.70	747.94	658.98
360.0	1422.03	1097.50	1097.50	1072.53	959.11	863.85	770.41	678.25	571.80

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	490.10	415.82	345.79	266.80	210.45	153.61	123.60	105.23	92.33
45.0	645.98	541.91	463.86	376.96	312.19	280.09	280.09	141.54	115.58
90.0	555.47	454.79	380.56	312.80	251.25	184.99	145.47	118.35	101.63
135.0	648.74	561.29	459.99	387.48	318.84	286.18	286.18	150.67	121.17
180.0	715.72	622.73	539.14	439.51	363.67	297.25	281.75	212.28	136.83
225.0	550.21	471.45	397.49	328.63	251.47	200.66	159.97	128.53	113.64
270.0	638.78	530.84	450.58	376.40	308.32	292.27	219.81	146.35	123.99
315.0	549.99	468.51	393.90	306.44	244.50	192.63	144.20	119.95	102.90
360.0	490.10	415.82	345.79	266.80	210.45	153.61	123.60	105.23	92.33

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	83.53	75.83	67.75	62.11	56.79	52.25	47.16	43.56	40.19
45.0	100.13	87.96	80.10	73.34	67.37	60.72	56.13	51.98	48.21
90.0	88.62	79.88	72.46	64.76	59.28	54.30	48.93	45.22	41.79
135.0	107.66	94.88	86.41	78.77	71.74	64.32	59.12	54.58	50.21
180.0	118.07	105.89	93.27	84.75	77.05	70.13	63.99	57.40	52.75
225.0	102.79	91.50	83.53	76.00	67.86	62.05	57.07	51.59	47.49
270.0	107.61	97.31	88.34	80.54	71.96	65.48	58.79	54.08	49.82
315.0	93.71	85.41	78.38	69.97	64.04	58.62	53.86	49.60	44.78
360.0	83.53	75.83	67.75	62.11	56.79	52.25	47.16	43.56	40.19

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	37.20	33.77	31.33	28.67	26.85	25.19	23.36	22.14	20.98
45.0	43.95	40.91	37.36	34.76	32.38	29.78	27.95	26.24	24.36
90.0	37.92	35.20	32.71	30.56	28.06	26.29	24.74	23.41	21.86
135.0	45.50	42.23	39.08	36.37	33.16	31.00	28.56	26.79	25.30
180.0	48.66	44.06	40.80	37.86	34.49	32.11	29.45	27.57	25.85
225.0	43.95	40.68	36.92	34.32	31.99	29.84	27.40	25.63	23.80
270.0	45.11	41.74	38.64	35.92	32.77	30.67	28.62	26.90	24.91
315.0	41.35	37.53	34.76	32.33	29.67	27.68	25.91	24.02	22.64
360.0	37.20	33.77	31.33	28.67	26.85	25.19	23.36	22.14	20.98

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.04	18.93	18.16	17.55	16.94	16.38	15.78	15.22	14.72
45.0	23.08	21.86	20.81	19.60	18.71	17.93	17.27	16.55	16.05
90.0	20.87	19.65	18.88	18.10	17.27	16.77	16.27	15.61	15.17
135.0	23.64	22.42	21.42	20.43	19.43	18.65	17.93	17.33	16.55
180.0	24.36	22.69	21.59	20.65	19.76	18.82	18.10	17.49	16.88
225.0	22.47	21.26	20.04	19.15	18.38	17.71	16.99	16.33	15.72
270.0	23.53	22.31	20.98	20.04	19.26	18.38	17.77	17.16	16.38
315.0	21.42	20.37	19.26	18.43	17.71	17.10	16.38	15.94	15.39
360.0	20.04	18.93	18.16	17.55	16.94	16.38	15.78	15.22	14.72

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.28	13.89	13.34	12.95	12.62	12.12	11.73	11.46	11.13
45.0	15.50	14.89	14.45	13.89	13.51	13.06	12.68	12.18	11.79
90.0	14.67	14.23	13.73	13.34	12.95	12.45	12.01	11.62	11.29
135.0	15.94	15.44	14.83	14.34	13.78	13.28	12.79	12.34	11.90
180.0	16.11	15.61	15.11	14.39	13.89	13.40	12.84	12.40	12.01
225.0	15.17	14.50	13.95	13.56	12.90	12.45	11.96	11.62	11.13
270.0	15.83	15.33	14.72	14.12	13.62	13.17	12.57	12.18	11.79
315.0	14.72	14.39	13.78	13.40	12.95	12.51	12.07	11.73	11.40
360.0	14.28	13.89	13.34	12.95	12.62	12.12	11.73	11.46	11.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.74	10.35	10.13	9.80	9.52	9.24	9.02	8.69	8.47
45.0	11.40	11.07	10.74	10.35	10.02	9.69	9.47	9.19	8.91
90.0	10.85	10.57	10.19	9.85	9.63	9.35	9.02	8.80	8.58
135.0	11.46	11.07	10.74	10.35	10.02	9.74	9.41	9.19	8.91
180.0	11.51	11.07	10.74	10.30	9.91	9.58	9.30	9.08	8.80
225.0	10.68	10.41	10.02	9.69	9.41	9.08	8.80	8.58	8.36
270.0	11.35	10.90	10.63	10.19	9.85	9.58	9.19	8.97	8.69
315.0	10.96	10.57	10.30	9.96	9.63	9.41	9.13	8.86	8.64
360.0	10.74	10.35	10.13	9.80	9.52	9.24	9.02	8.69	8.47

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.25	8.08	7.92	7.69	7.47	7.25	7.20	7.03	6.92
45.0	8.64	8.47	8.19	8.03	7.80	7.58	7.42	7.31	7.14
90.0	8.41	8.19	7.97	7.80	7.64	7.47	7.36	7.31	6.97
135.0	8.64	8.47	8.14	7.97	7.75	7.58	7.47	7.47	7.03
180.0	8.52	8.30	8.19	7.97	7.69	7.53	7.42	7.42	7.20
225.0	8.14	7.97	7.80	7.64	7.53	7.36	7.31	7.20	7.25
270.0	8.41	8.30	8.25	7.97	7.75	7.58	7.42	7.42	6.97
315.0	8.47	8.25	8.14	7.97	7.75	7.47	7.36	7.36	6.97
360.0	8.25	8.08	7.92	7.69	7.47	7.25	7.20	7.03	6.92

Intensity data(cd)

C/γ(°)	90.0
0.0	6.81
45.0	7.03
90.0	6.92
135.0	7.03
180.0	7.14
225.0	7.36
270.0	7.09
315.0	6.92
360.0	6.81