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

NATA

LumCAT: 1687-M
Luminaire: 92.70.127.00

Report No: NATA0100	Voltage(V): 36.7000
Test No: GC2019011601	Current(A): 0.2500
LampCAT: PHILIPS Certaflux SLM 1202	Power (W): 9.1750
Lamp flux(lm): 967.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 46	Width(mm): 46
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 871.40
Efficiency(%): 90.11%
Lumens(lm)/Power(W): 95.04
Central intensity(cd): 2522.109
Maximum intensity(cd): 2522.109
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.0
[C90/270]Total=24.0
Field angle(10%Imax): [C0/180]Total=78.4
[C90/270]Total=78.4
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.42 C90_270=0.42
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 90.17%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.728%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2522.109	0.603	0.603	.062%	.069%
1.0	2507.133	4.798	5.402	.496%	.620%
2.0	2463.188	9.427	14.829	.975%	1.702%
3.0	2396.672	13.755	28.584	1.422%	3.280%
4.0	2312.648	17.691	46.274	1.829%	5.310%
5.0	2205.211	21.076	67.351	2.180%	7.729%
6.0	2087.086	23.924	91.274	2.474%	10.474%
7.0	1964.250	26.251	117.525	2.715%	13.487%
8.0	1836.773	28.033	145.558	2.899%	16.704%
9.0	1697.836	29.126	174.684	3.012%	20.046%
10.0	1558.758	29.683	204.366	3.070%	23.453%
11.0	1409.344	29.490	233.856	3.050%	26.837%
12.0	1262.039	28.774	262.63	2.976%	30.139%
13.0	1129.486	27.863	290.492	2.881%	33.336%
14.0	978.166	25.950	316.443	2.684%	36.314%
15.0	866.053	24.581	341.023	2.542%	39.135%
16.0	756.703	22.873	363.896	2.365%	41.760%
17.0	651.811	20.898	384.794	2.161%	44.158%
18.0	569.370	19.294	404.088	1.995%	46.372%
19.0	511.284	18.254	422.342	1.888%	48.467%
20.0	460.891	17.286	439.628	1.788%	50.451%
21.0	424.216	16.671	456.3	1.724%	52.364%
22.0	401.667	16.500	472.8	1.706%	54.258%
23.0	383.660	16.439	489.239	1.700%	56.144%
24.0	369.647	16.487	505.726	1.705%	58.036%
25.0	359.114	16.643	522.37	1.721%	59.946%
26.0	349.980	16.824	539.194	1.740%	61.877%
27.0	341.543	17.004	556.198	1.758%	63.828%
28.0	333.816	17.186	573.383	1.777%	65.800%
29.0	326.967	17.383	590.766	1.798%	67.795%
30.0	321.145	17.609	608.375	1.821%	69.816%
31.0	315.773	17.835	626.21	1.844%	71.862%
32.0	310.380	18.037	644.246	1.865%	73.932%
33.0	305.958	18.274	662.52	1.890%	76.029%
34.0	301.064	18.462	680.982	1.909%	78.148%
35.0	295.608	18.593	699.575	1.923%	80.282%
36.0	290.672	18.736	718.311	1.938%	82.432%
37.0	284.752	18.792	737.103	1.943%	84.588%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	273.607	18.472	755.575	1.910%	86.708%
39.0	256.493	17.701	773.276	1.831%	88.740%
40.0	234.991	16.564	789.841	1.713%	90.640%
41.0	207.359	14.918	804.759	1.543%	92.352%
42.0	176.513	12.952	817.711	1.339%	93.839%
43.0	145.688	10.896	828.607	1.127%	95.089%
44.0	115.404	8.791	837.398	.909%	96.098%
45.0	85.352	6.618	844.016	.684%	96.857%
46.0	58.402	4.607	848.623	.476%	97.386%
47.0	37.898	3.039	851.663	.314%	97.735%
48.0	22.950	1.870	853.533	.193%	97.950%
49.0	15.342	1.270	854.803	.131%	98.095%
50.0	11.243	0.944	855.747	.098%	98.204%
51.0	9.626	0.820	856.567	.085%	98.298%
52.0	8.149	0.704	857.272	.073%	98.379%
53.0	6.891	0.603	857.875	.062%	98.448%
54.0	5.794	0.514	858.389	.053%	98.507%
55.0	5.295	0.476	858.865	.049%	98.561%
56.0	4.880	0.444	859.308	.046%	98.612%
57.0	4.380	0.403	859.711	.042%	98.659%
58.0	4.261	0.396	860.107	.041%	98.704%
59.0	4.155	0.391	860.498	.040%	98.749%
60.0	4.064	0.386	860.884	.040%	98.793%
61.0	4.001	0.384	861.268	.040%	98.837%
62.0	3.909	0.379	861.646	.039%	98.881%
63.0	3.839	0.375	862.021	.039%	98.924%
64.0	3.783	0.373	862.394	.039%	98.966%
65.0	3.713	0.369	862.763	.038%	99.009%
66.0	3.649	0.366	863.129	.038%	99.051%
67.0	3.586	0.362	863.491	.037%	99.092%
68.0	3.523	0.358	863.849	.037%	99.133%
69.0	3.480	0.356	864.205	.037%	99.174%
70.0	3.438	0.354	864.56	.037%	99.215%
71.0	3.389	0.351	864.911	.036%	99.255%
72.0	3.361	0.351	865.261	.036%	99.296%
73.0	3.333	0.350	865.611	.036%	99.336%
74.0	3.319	0.350	865.961	.036%	99.376%
75.0	3.312	0.351	866.312	.036%	99.416%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.298	0.351	866.663	.036%	99.456%
77.0	3.284	0.351	867.013	.036%	99.497%
78.0	3.277	0.351	867.365	.036%	99.537%
79.0	3.248	0.350	867.715	.036%	99.577%
80.0	3.241	0.350	868.065	.036%	99.617%
81.0	3.248	0.352	868.416	.036%	99.658%
82.0	3.241	0.352	868.768	.036%	99.698%
83.0	3.241	0.353	869.121	.036%	99.738%
84.0	3.227	0.352	869.473	.036%	99.779%
85.0	3.227	0.353	869.826	.036%	99.819%
86.0	3.227	0.353	870.179	.037%	99.860%
87.0	3.178	0.348	870.527	.036%	99.900%
88.0	3.192	0.350	870.877	.036%	99.940%
89.0	3.185	0.349	871.226	.036%	99.980%
90.0	3.178	0.174	871.4	.018%	100.000%

Zonal flux distribution table

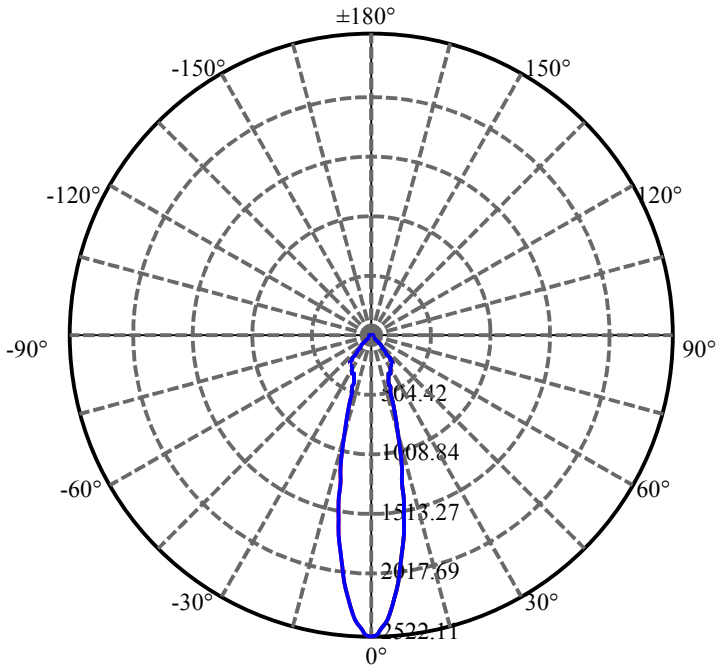
ZONAL LUMEN SUMMARY

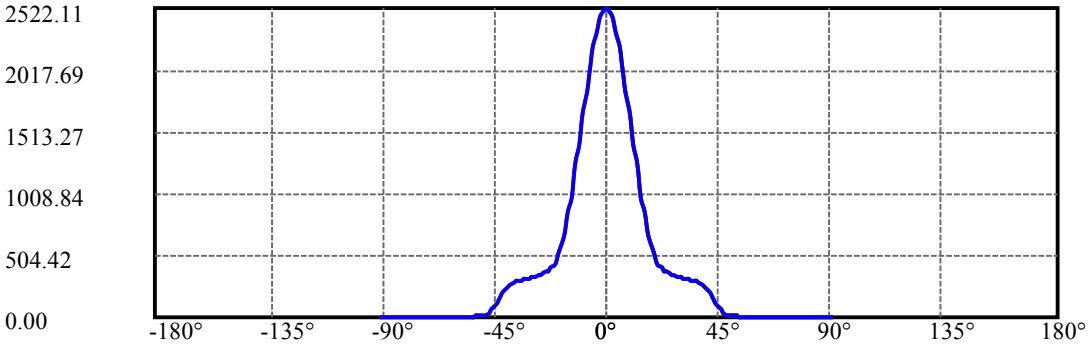
Zone	Lumens	%Lamp	%Fixt
0-30	608.37	62.91%	69.82%
0-40	789.84	81.68%	90.64%
0-60	860.88	89.03%	98.79%
0-90	871.23	90.10%	99.98%
0-120	871.23	90.10%	99.98%
0-180	871.40	90.11%	100.00%
60-90	10.73	1.11%	1.23%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-34.87	697.12	72.09%	80.00%

ZONAL LUMEN SUMMARY

0-10	204.37
10-20	235.26
20-30	168.75
30-40	181.47
40-50	65.91
50-60	5.14
60-70	3.68
70-80	3.50
80-90	3.16
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):

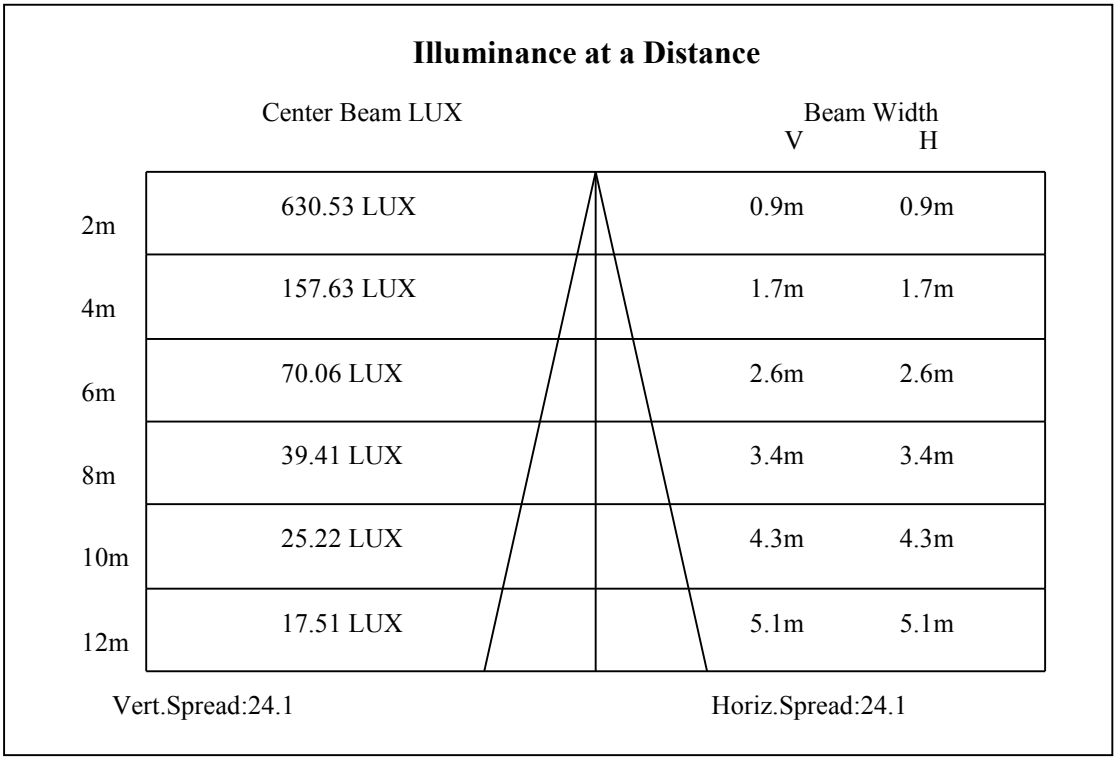
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:39.2 Right:39.2
:C90/270Left:39.2 Right:39.2

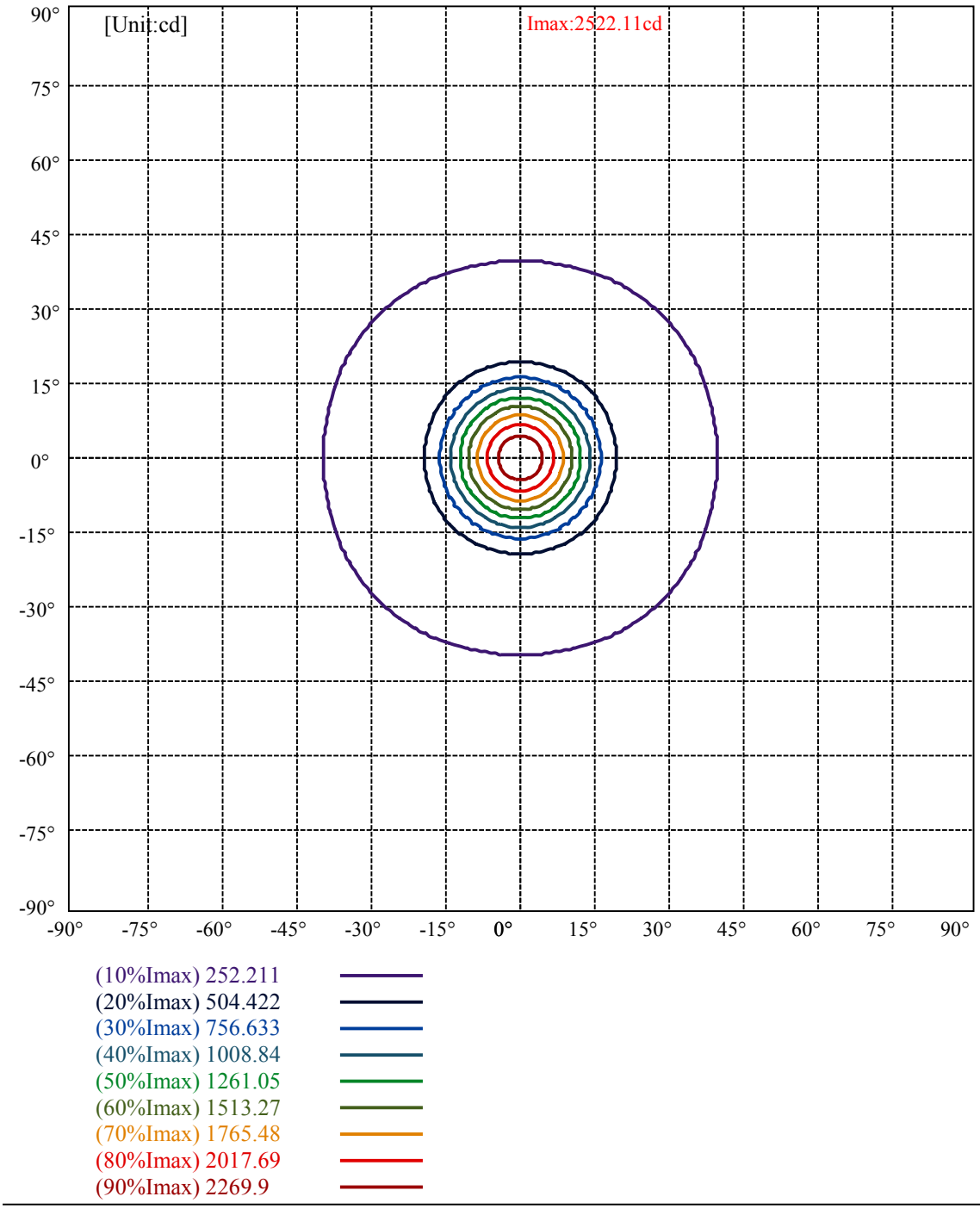
Beam Angle(50%Imax):C0/180Left:12.0 Right:12.0
:C90/270Left:12.0 Right:12.0

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

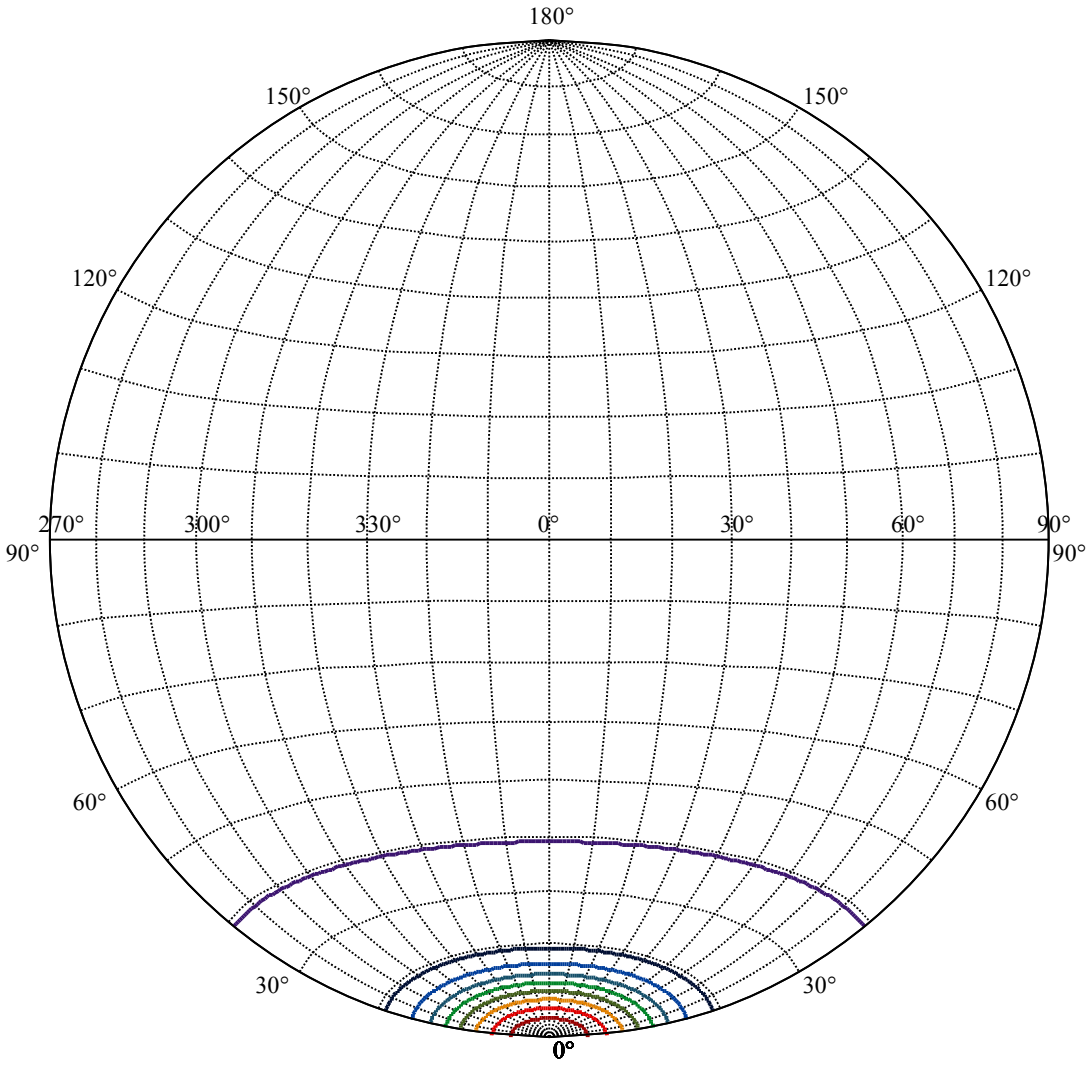


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:2522.11

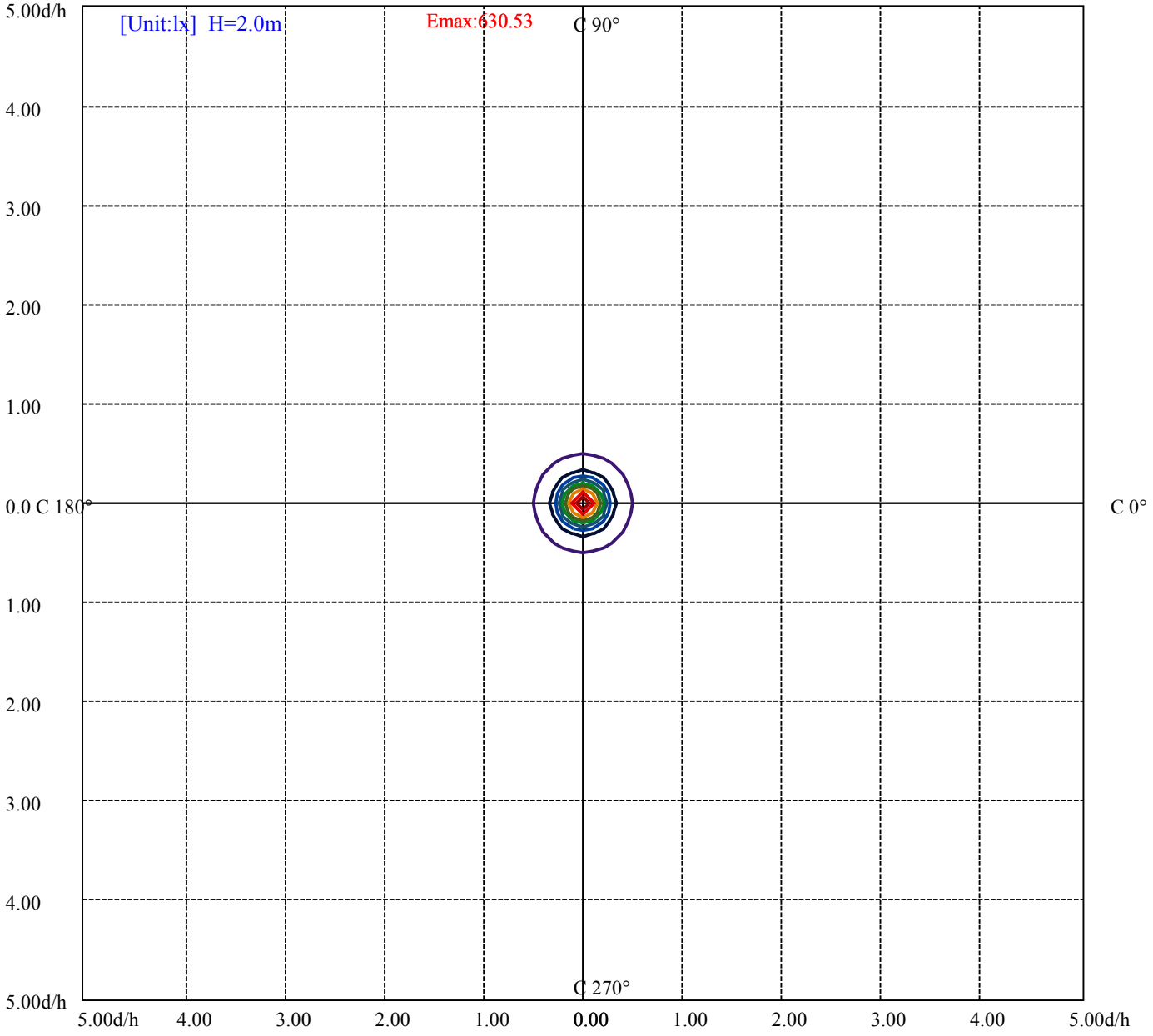
(10%Imax) 252.211
(20%Imax) 504.422
(30%Imax) 756.633
(40%Imax) 1008.84
(50%Imax) 1261.05
(60%Imax) 1513.27
(70%Imax) 1765.48
(80%Imax) 2017.69
(90%Imax) 2269.9

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

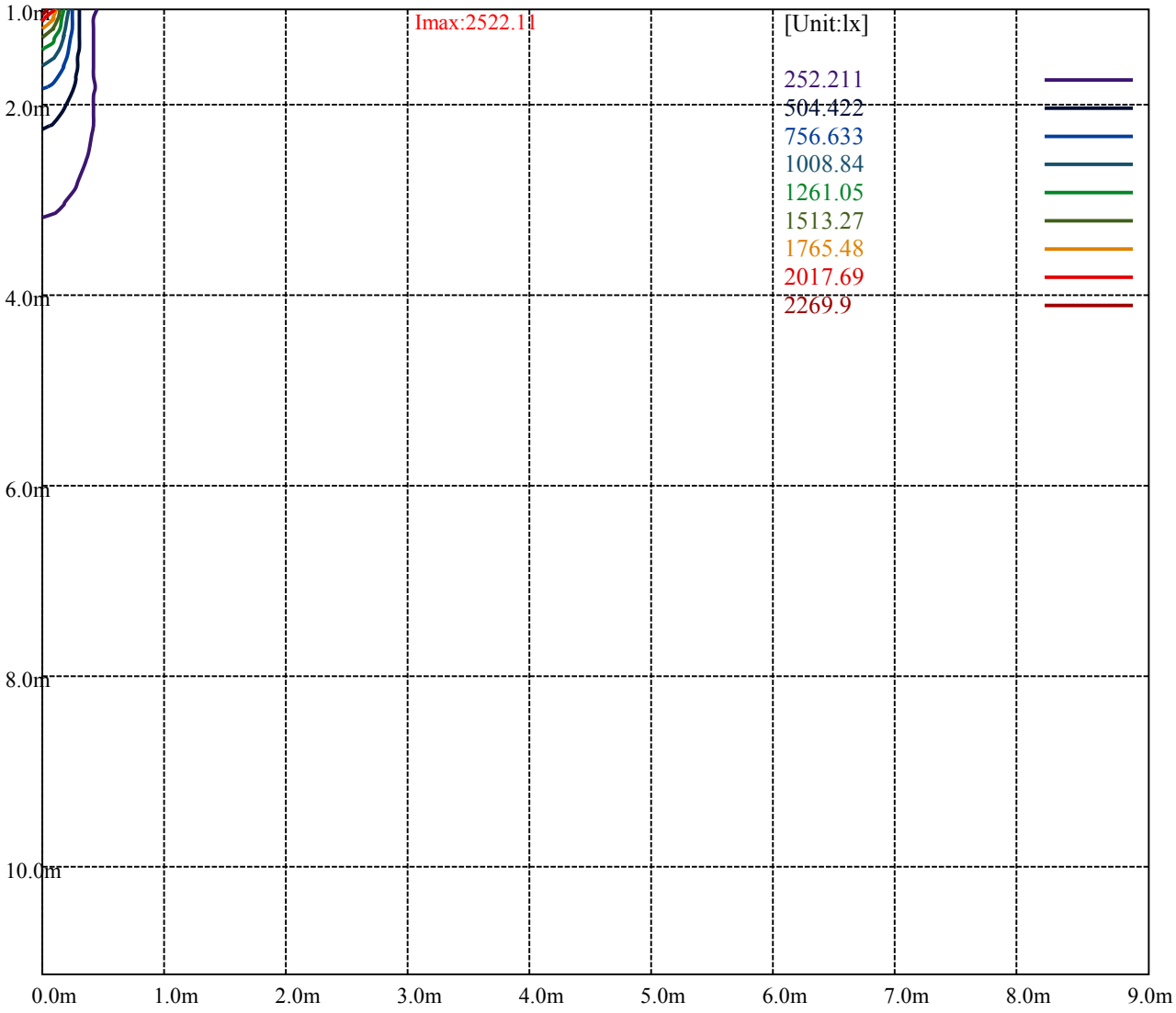


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/16
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

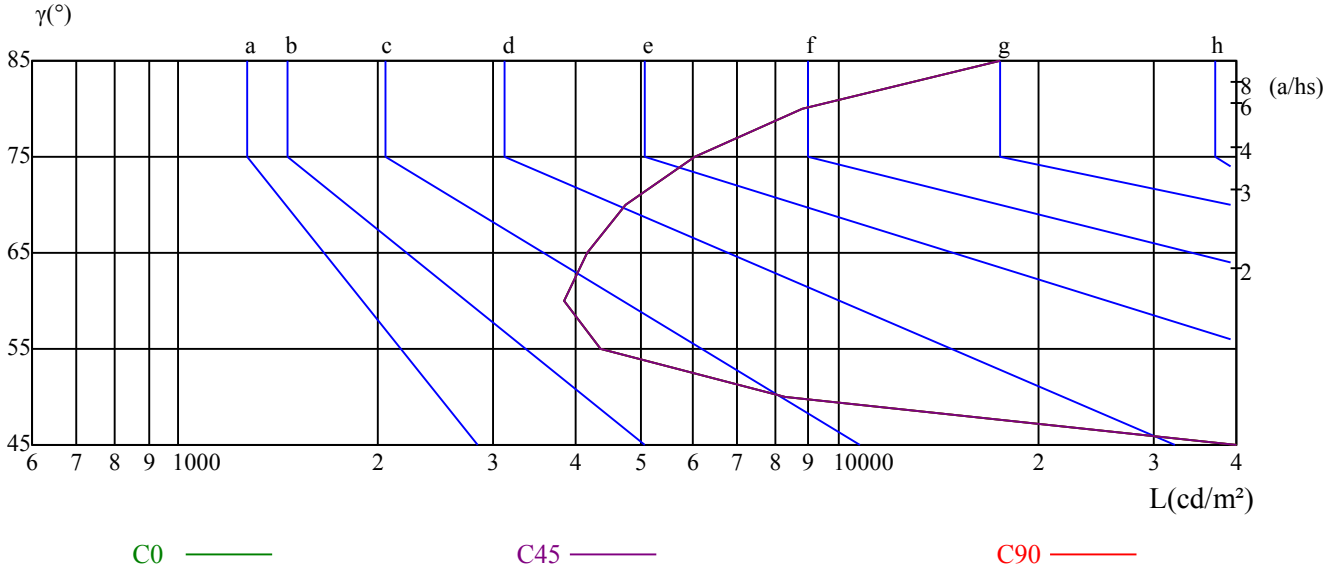
γ	45	50	55	60	65	70	75	80	85
C0	57045	8266	4362	3841	4151	4751	6047	8822	17500
C45	57045	8266	4362	3841	4151	4751	6047	8822	17500
C90	57045	8266	4362	3841	4151	4751	6047	8822	17500

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4151	4151	4151	6047	6047	6047	17500	17500	17500

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

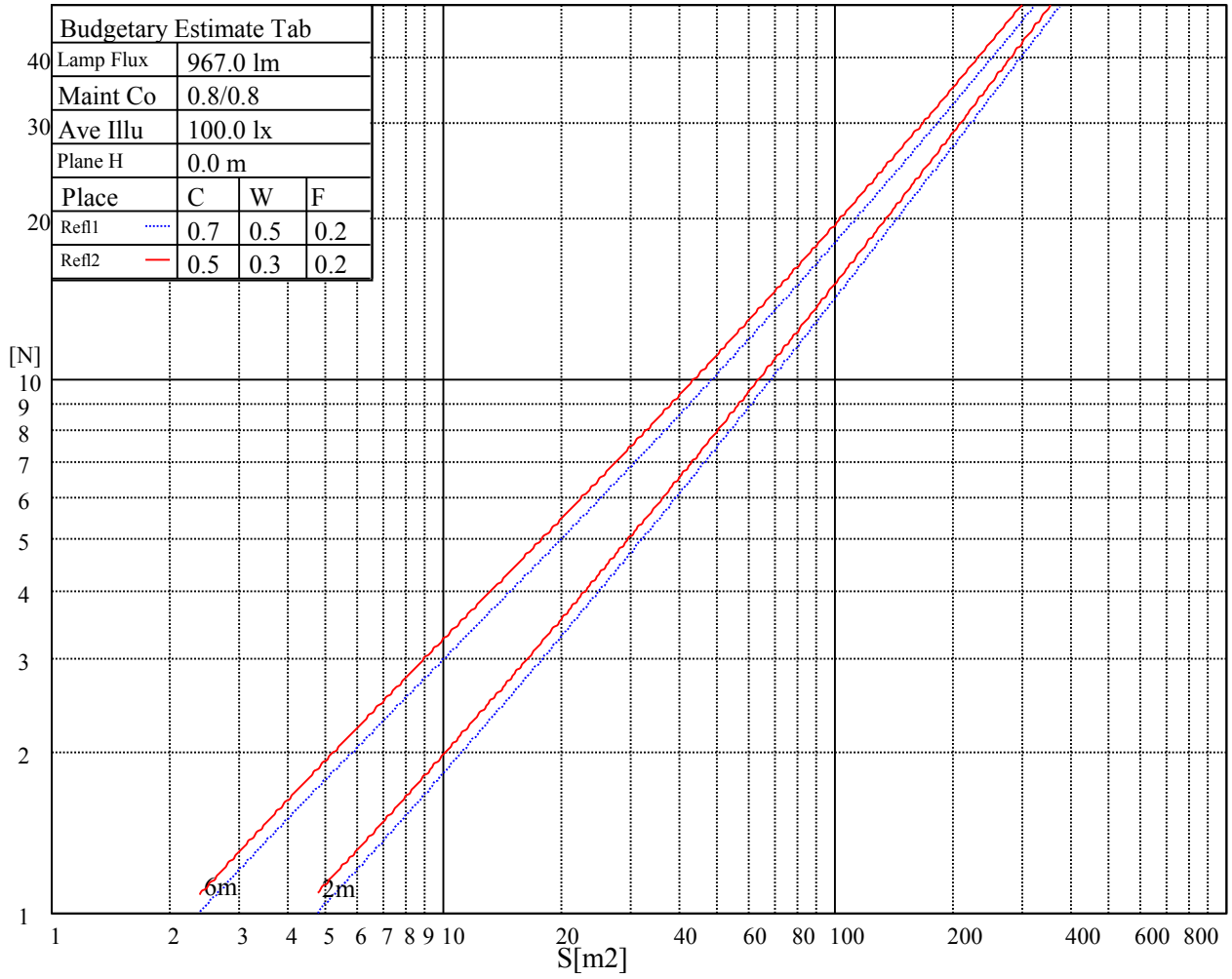


UGR Glare

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	6.33	7.33	6.69	7.64	7.96	6.53	7.53	6.89	7.84	8.16
	3H	8.79	9.68	9.17	10.01	10.38	8.87	9.75	9.25	10.08	10.45
	4H	10.25	11.07	10.66	11.42	11.81	10.28	11.09	10.68	11.45	11.84
	6H	12.01	12.75	12.42	13.13	13.53	11.96	12.71	12.38	13.08	13.48
	8H	13.02	13.72	13.45	14.11	14.52	12.94	13.64	13.37	14.03	14.44
	12H	14.70	15.37	15.13	15.75	16.18	14.58	15.26	15.02	15.64	16.07
4H	2H	6.99	7.80	7.39	8.16	8.55	7.14	7.96	7.55	8.31	8.70
	3H	9.78	10.45	10.20	10.85	11.26	9.83	10.50	10.25	10.91	11.31
	4H	11.45	12.05	11.89	12.47	12.92	11.46	12.06	11.90	12.48	12.93
	6H	13.41	13.92	13.88	14.37	14.84	13.35	13.86	13.83	14.31	14.79
	8H	14.54	15.01	15.01	15.46	15.94	14.45	14.93	14.93	15.38	15.85
	12H	16.15	16.56	16.64	17.04	17.52	16.04	16.45	16.53	16.94	17.41
8H	4H	12.10	12.57	12.57	13.02	13.50	12.10	12.58	12.58	13.03	13.50
	6H	14.34	14.72	14.85	15.22	15.71	14.29	14.67	14.80	15.17	15.66
	8H	15.67	16.01	16.20	16.53	17.03	15.59	15.93	16.13	16.45	16.95
	12H	17.44	17.74	17.97	18.23	18.81	17.35	17.64	17.87	18.14	18.72
12H	4H	12.28	12.69	12.77	13.18	13.66	12.29	12.70	12.78	13.19	13.67
	6H	14.92	14.98	15.18	15.45	16.00	14.87	14.93	15.13	15.40	15.95
	8H	16.10	16.39	16.62	16.89	17.47	16.03	16.32	16.55	16.82	17.40

Variation with the observer position at spacings:		
S = 1.0H	3.5/-11.3	3.5/-11.3
S = 1.5H	5.0/-9.3	5.0/-9.3
S = 2.0H	6.8/-7.9	6.8/-7.9
Standard tables:	BK1	BK1
Uncorrected UGR	4.1	4.1

Budgetary Estimate Table

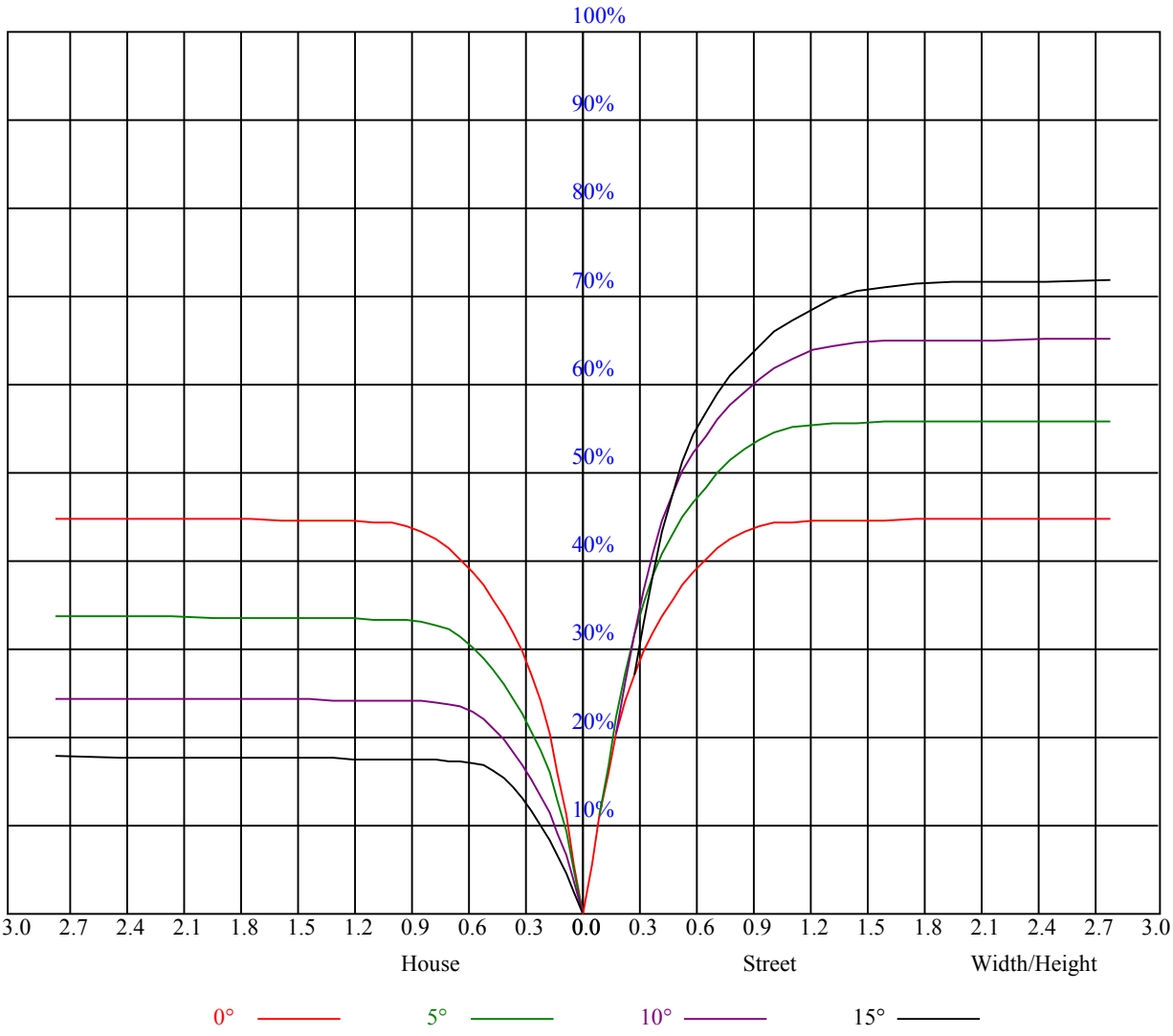


Equipment: GMS1980 Date: 2019/1/16 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	1.00	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	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.84	0.86	0.84	0.83	0.84	0.82	0.81	0.79
3	0.88	0.84	0.80	0.87	0.83	0.80	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.78	0.74	0.82	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.72	0.76	0.74	0.71	0.70
5	0.78	0.73	0.70	0.77	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.67	0.66
6	0.74	0.69	0.65	0.73	0.69	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.66	0.64	0.63
7	0.70	0.65	0.62	0.70	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.59
8	0.67	0.62	0.58	0.66	0.62	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.56
9	0.64	0.59	0.56	0.63	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54
10	0.61	0.56	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.53	0.59	0.55	0.53	0.51

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/16	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

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	2534.63	2487.94	2394.00	2298.94	2189.81	2057.06	1919.81	1796.06	1655.44
45.0	2521.13	2467.69	2388.94	2302.88	2189.81	2067.75	1953.00	1815.75	1689.19
90.0	2517.19	2495.81	2453.63	2376.56	2276.44	2179.13	2071.13	1924.88	1800.00
135.0	2515.50	2543.63	2545.31	2522.25	2475.56	2395.13	2289.38	2179.69	2051.44
180.0	2534.63	2552.63	2552.06	2519.44	2467.13	2377.69	2270.25	2157.75	2017.69
225.0	2521.13	2538.00	2527.88	2486.81	2427.75	2340.56	2231.44	2115.00	1999.69
270.0	2517.19	2511.56	2471.63	2404.69	2320.88	2206.13	2079.56	1964.81	1863.56
315.0	2515.50	2459.81	2372.06	2261.81	2153.81	2018.25	1882.13	1760.06	1617.19
360.0	2534.63	2487.94	2394.00	2298.94	2189.81	2057.06	1919.81	1796.06	1655.44

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1510.88	1377.56	1222.31	1090.13	946.13	816.75	713.81	624.94	537.75
45.0	1542.38	1389.38	1249.31	1112.63	950.63	834.75	731.81	621.00	549.56
90.0	1674.00	1529.44	1377.56	1121.12	1104.13	946.35	829.01	723.66	620.83
135.0	1912.50	1783.13	1636.88	1499.06	1341.00	1181.25	1046.81	916.88	774.00
180.0	1888.31	1748.81	1607.63	1476.00	1325.25	1119.04	1038.21	912.54	754.71
225.0	1863.00	1725.19	1600.88	1450.69	1315.13	1112.23	1001.14	892.74	780.24
270.0	1703.81	1578.94	1465.31	1297.69	1146.38	1031.63	880.31	757.69	675.56
315.0	1487.81	1337.63	1114.88	1049.01	907.26	783.34	687.32	604.18	521.83
360.0	1510.88	1377.56	1222.31	1090.13	946.13	816.75	713.81	624.94	537.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	485.44	447.75	416.81	399.38	385.88	373.50	363.38	355.50	348.19
45.0	491.06	446.06	415.13	396.00	379.69	366.19	356.06	347.06	340.31
90.0	537.53	481.44	435.09	403.99	385.20	369.34	357.98	347.18	338.06
135.0	670.50	590.06	508.50	458.44	423.00	396.56	378.56	366.19	354.94
180.0	666.79	584.33	510.13	455.29	421.59	398.81	379.58	367.26	355.56
225.0	650.98	583.03	519.36	455.91	427.78	404.44	385.71	371.48	361.29
270.0	578.25	518.06	471.94	430.88	409.50	393.19	377.44	367.31	358.31
315.0	474.41	439.54	410.18	393.86	380.70	367.26	358.48	350.94	343.18
360.0	485.44	447.75	416.81	399.38	385.88	373.50	363.38	355.50	348.19

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	340.31	333.00	327.38	322.88	317.81	313.31	309.38	303.75	297.56
45.0	330.75	324.00	318.94	313.88	308.25	303.75	299.81	293.63	288.56
90.0	331.09	323.49	315.56	310.39	305.66	300.09	295.88	291.66	286.43
135.0	345.94	336.94	329.06	321.19	315.00	308.81	304.31	299.81	294.19
180.0	346.67	338.12	329.85	322.82	316.97	310.56	305.89	301.39	295.76
225.0	351.56	343.46	336.21	328.78	323.21	317.53	312.24	307.63	303.02
270.0	349.31	341.44	334.69	329.06	323.44	318.94	313.88	309.38	304.88
315.0	336.71	330.08	324.06	320.18	315.84	310.05	306.28	301.28	294.47
360.0	340.31	333.00	327.38	322.88	317.81	313.31	309.38	303.75	297.56

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	293.06	285.19	273.21	235.46	206.89	178.09	139.44	108.56	81.06
45.0	284.06	278.94	250.03	226.91	204.86	166.61	136.01	109.07	76.05
90.0	281.14	276.47	268.09	246.83	223.54	191.98	164.19	132.13	101.64
135.0	290.25	285.19	284.06	272.70	263.14	241.43	210.99	182.19	153.39
180.0	291.32	286.20	281.19	275.01	264.43	243.51	216.62	183.94	153.23
225.0	297.23	291.21	286.26	279.90	267.86	244.41	219.60	184.78	155.42
270.0	298.13	293.06	286.88	284.06	246.66	222.36	184.89	157.05	127.63
315.0	290.19	281.76	259.14	231.08	202.56	170.49	140.34	107.78	74.81
360.0	293.06	285.19	273.21	235.46	206.89	178.09	139.44	108.56	81.06

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	52.54	29.64	17.94	12.04	10.74	9.00	7.14	5.85	5.29
45.0	48.38	26.66	15.98	12.38	11.03	9.06	7.37	6.08	5.46
90.0	72.56	49.84	25.48	15.53	12.32	10.69	9.00	7.31	5.91
135.0	122.74	89.49	63.11	36.34	21.38	13.22	11.70	10.18	8.33
180.0	120.04	86.23	61.09	37.01	21.54	13.61	12.21	10.74	9.11
225.0	124.54	93.88	62.33	35.72	21.54	13.73	12.38	10.69	8.94
270.0	91.97	64.52	41.74	22.56	13.50	11.98	10.18	8.44	6.69
315.0	50.06	26.94	15.53	12.04	10.69	8.66	7.03	5.91	5.40
360.0	52.54	29.64	17.94	12.04	10.74	9.00	7.14	5.85	5.29

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.67	4.44	4.33	4.22	4.16	4.05	3.94	3.88	3.83
45.0	4.73	4.56	4.39	4.28	4.22	4.11	4.05	3.99	3.94
90.0	5.34	4.61	4.39	4.22	4.16	4.05	3.99	3.94	3.83
135.0	6.69	5.91	5.34	4.50	4.28	4.16	4.05	3.99	3.94
180.0	7.31	6.58	5.85	4.44	4.33	4.22	4.11	4.05	3.94
225.0	7.31	6.47	5.79	4.61	4.44	4.33	4.22	4.11	3.99
270.0	5.68	5.29	4.61	4.50	4.39	4.28	4.16	4.11	3.99
315.0	4.61	4.50	4.33	4.28	4.11	4.05	3.99	3.94	3.83
360.0	4.67	4.44	4.33	4.22	4.16	4.05	3.94	3.88	3.83

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.71	3.66	3.60	3.54	3.49	3.49	3.43	3.43	3.38
45.0	3.88	3.83	3.71	3.66	3.60	3.54	3.49	3.43	3.38
90.0	3.83	3.77	3.66	3.60	3.54	3.49	3.43	3.43	3.38
135.0	3.83	3.77	3.77	3.66	3.60	3.49	3.49	3.43	3.38
180.0	3.88	3.83	3.77	3.71	3.60	3.54	3.49	3.43	3.38
225.0	3.94	3.88	3.77	3.77	3.66	3.60	3.54	3.49	3.43
270.0	3.88	3.83	3.77	3.71	3.66	3.60	3.54	3.49	3.43
315.0	3.77	3.71	3.66	3.54	3.54	3.43	3.43	3.38	3.38
360.0	3.71	3.66	3.60	3.54	3.49	3.49	3.43	3.43	3.38

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.32	3.32	3.26	3.32	3.26	3.26	3.26	3.21	3.21
45.0	3.38	3.38	3.32	3.32	3.32	3.26	3.26	3.26	3.26
90.0	3.38	3.38	3.32	3.32	3.32	3.32	3.32	3.26	3.26
135.0	3.38	3.32	3.32	3.32	3.32	3.26	3.26	3.26	3.21
180.0	3.32	3.26	3.32	3.26	3.26	3.26	3.26	3.21	3.21
225.0	3.38	3.38	3.38	3.32	3.26	3.32	3.26	3.26	3.26
270.0	3.43	3.38	3.38	3.38	3.38	3.32	3.32	3.32	3.32
315.0	3.32	3.26	3.26	3.26	3.26	3.26	3.26	3.21	3.21
360.0	3.32	3.32	3.26	3.32	3.26	3.26	3.26	3.21	3.21

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.21	3.21	3.21	3.21	3.21	3.21	3.15	3.15	3.15
45.0	3.26	3.26	3.26	3.21	3.21	3.21	3.21	3.21	3.21
90.0	3.26	3.26	3.26	3.26	3.26	3.21	3.21	3.21	3.21
135.0	3.26	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.15
180.0	3.21	3.21	3.21	3.21	3.15	3.15	3.15	3.21	3.15
225.0	3.26	3.26	3.26	3.21	3.26	3.26	3.21	3.21	3.21
270.0	3.32	3.32	3.32	3.32	3.26	3.26	3.15	3.21	3.21
315.0	3.21	3.21	3.21	3.21	3.26	3.32	3.15	3.15	3.21
360.0	3.21	3.21	3.21	3.21	3.21	3.21	3.15	3.15	3.15

Intensity data(cd)

C/γ(°)	90.0
0.0	3.15
45.0	3.21
90.0	3.21
135.0	3.15
180.0	3.15
225.0	3.21
270.0	3.21
315.0	3.15
360.0	3.15