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Nata

LumCAT: 3-1548-A3
Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100	Voltage(V): 34.7000
Test No: GC2018091212	Current(A): 0.4900
LampCAT: LUMINUS CXM-11-AC30	Power (W): 17.0030
Lamp flux(lm): 2496.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 79	Width(mm): 79
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2272.37
Efficiency(%): 91.04%
Lumens(lm)/Power(W): 133.95
Central intensity(cd): 21799.690
Maximum intensity(cd): 21799.690
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=12.6
[C90/270]Total=12.6
Field angle(10%Imax): [C0/180]Total=26.1
[C90/270]Total=26.1
Maximum s/h(1/2): C0_180=0.22 C90_270=0.22
Maximum s/h(1/4): C0_180=0.23 C90_270=0.23
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 91.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.420%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	21799.688	5.215	5.215	.209%	.230%
1.0	21412.266	40.980	46.195	1.642%	2.033%
2.0	20348.438	77.876	124.071	3.120%	5.460%
3.0	18537.891	106.393	230.464	4.263%	10.142%
4.0	15867.070	121.376	351.84	4.863%	15.483%
5.0	14128.102	135.030	486.87	5.410%	21.426%
6.0	11643.750	133.469	620.339	5.347%	27.299%
7.0	9300.586	124.296	744.635	4.980%	32.769%
8.0	7583.484	115.738	860.373	4.637%	37.862%
9.0	5785.453	99.248	959.621	3.976%	42.230%
10.0	4372.242	83.258	1042.879	3.336%	45.894%
11.0	3462.961	72.460	1115.339	2.903%	49.083%
12.0	2684.742	61.212	1176.55	2.452%	51.776%
13.0	2202.469	54.331	1230.881	2.177%	54.167%
14.0	1881.422	49.913	1280.794	2.000%	56.364%
15.0	1617.680	45.914	1326.708	1.839%	58.384%
16.0	1424.573	43.060	1369.768	1.725%	60.279%
17.0	1297.723	41.607	1411.375	1.667%	62.110%
18.0	1191.073	40.362	1451.737	1.617%	63.886%
19.0	1102.366	39.357	1491.094	1.577%	65.618%
20.0	1052.937	39.492	1530.585	1.582%	67.356%
21.0	1006.383	39.550	1570.135	1.585%	69.097%
22.0	968.477	39.785	1609.92	1.594%	70.848%
23.0	935.318	40.076	1649.996	1.606%	72.611%
24.0	906.539	40.434	1690.431	1.620%	74.391%
25.0	880.116	40.789	1731.22	1.634%	76.186%
26.0	856.786	41.188	1772.407	1.650%	77.998%
27.0	836.754	41.658	1814.065	1.669%	79.831%
28.0	819.232	42.176	1856.241	1.690%	81.687%
29.0	804.480	42.770	1899.011	1.714%	83.570%
30.0	790.432	43.340	1942.351	1.736%	85.477%
31.0	773.388	43.681	1986.031	1.750%	87.399%
32.0	736.678	42.809	2028.841	1.715%	89.283%
33.0	687.523	41.063	2069.904	1.645%	91.090%
34.0	617.161	37.845	2107.749	1.516%	92.755%
35.0	521.452	32.799	2140.548	1.314%	94.199%
36.0	410.977	26.490	2167.038	1.061%	95.365%
37.0	313.608	20.697	2187.735	.829%	96.275%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	207.204	13.989	2201.724	.560%	96.891%
39.0	141.785	9.785	2211.509	.392%	97.322%
40.0	76.704	5.407	2216.915	.217%	97.560%
41.0	42.483	3.056	2219.972	.122%	97.694%
42.0	28.990	2.127	2222.099	.085%	97.788%
43.0	24.771	1.853	2223.952	.074%	97.869%
44.0	20.159	1.536	2225.487	.062%	97.937%
45.0	15.356	1.191	2226.678	.048%	97.989%
46.0	13.894	1.096	2227.774	.044%	98.037%
47.0	12.572	1.008	2228.782	.040%	98.082%
48.0	12.045	0.982	2229.764	.039%	98.125%
49.0	11.827	0.979	2230.743	.039%	98.168%
50.0	11.609	0.975	2231.718	.039%	98.211%
51.0	11.447	0.976	2232.693	.039%	98.254%
52.0	11.285	0.975	2233.668	.039%	98.297%
53.0	11.138	0.975	2234.644	.039%	98.340%
54.0	11.011	0.977	2235.621	.039%	98.383%
55.0	10.898	0.979	2236.6	.039%	98.426%
56.0	10.765	0.979	2237.578	.039%	98.469%
57.0	10.673	0.982	2238.56	.039%	98.512%
58.0	10.582	0.984	2239.544	.039%	98.555%
59.0	10.505	0.987	2240.532	.040%	98.599%
60.0	10.427	0.990	2241.522	.040%	98.642%
61.0	10.364	0.994	2242.516	.040%	98.686%
62.0	10.308	0.998	2243.514	.040%	98.730%
63.0	10.259	1.002	2244.516	.040%	98.774%
64.0	10.223	1.008	2245.524	.040%	98.818%
65.0	10.174	1.011	2246.535	.041%	98.863%
66.0	10.139	1.016	2247.551	.041%	98.908%
67.0	10.090	1.019	2248.569	.041%	98.953%
68.0	10.062	1.023	2249.592	.041%	98.998%
69.0	10.041	1.028	2250.62	.041%	99.043%
70.0	10.020	1.032	2251.653	.041%	99.088%
71.0	10.005	1.037	2252.69	.042%	99.134%
72.0	9.977	1.041	2253.731	.042%	99.180%
73.0	9.956	1.044	2254.775	.042%	99.226%
74.0	9.949	1.049	2255.824	.042%	99.272%
75.0	9.914	1.050	2256.874	.042%	99.318%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.907	1.054	2257.928	.042%	99.364%
77.0	9.900	1.058	2258.986	.042%	99.411%
78.0	9.879	1.060	2260.045	.042%	99.458%
79.0	9.851	1.060	2261.106	.042%	99.504%
80.0	9.858	1.065	2262.17	.043%	99.551%
81.0	9.837	1.065	2263.236	.043%	99.598%
82.0	9.844	1.069	2264.305	.043%	99.645%
83.0	9.851	1.072	2265.377	.043%	99.692%
84.0	9.900	1.080	2266.457	.043%	99.740%
85.0	9.963	1.088	2267.545	.044%	99.788%
86.0	9.984	1.092	2268.637	.044%	99.836%
87.0	9.844	1.078	2269.715	.043%	99.883%
88.0	9.703	1.063	2270.779	.043%	99.930%
89.0	9.689	1.062	2271.841	.043%	99.977%
90.0	9.689	0.531	2272.372	.021%	100.000%

Zonal flux distribution table

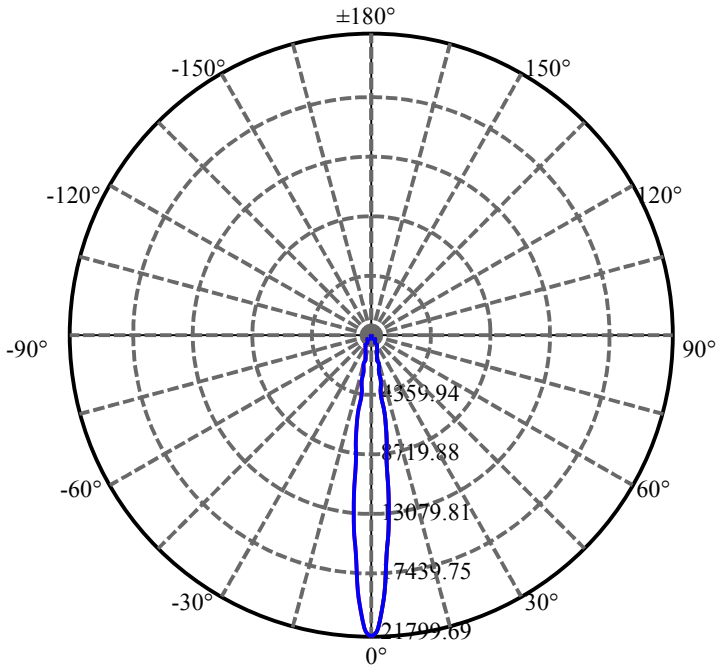
ZONAL LUMEN SUMMARY

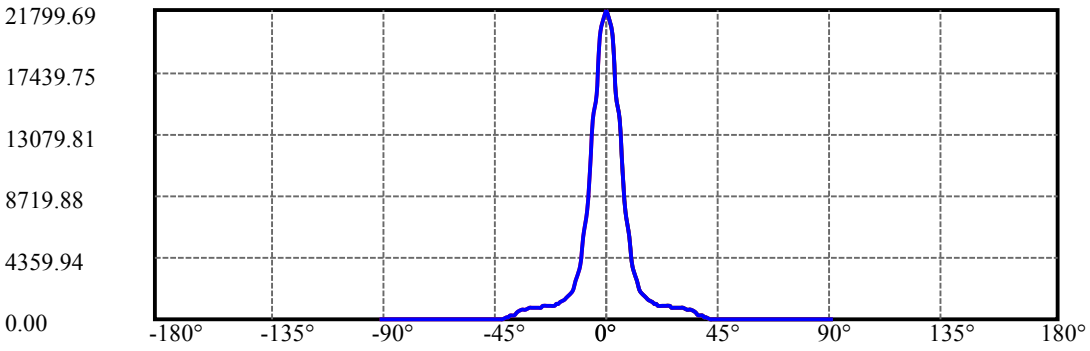
Zone	Lumens	%Lamp	%Fixt
0-30	1942.35	77.82%	85.48%
0-40	2216.92	88.82%	97.56%
0-60	2241.52	89.80%	98.64%
0-90	2271.84	91.02%	99.98%
0-120	2271.84	91.02%	99.98%
0-180	2272.37	91.04%	100.00%
60-90	31.31	1.25%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.09	1817.90	72.83%	80.00%

ZONAL LUMEN SUMMARY

0-10	1042.88
10-20	487.71
20-30	411.77
30-40	274.56
40-50	14.80
50-60	9.80
60-70	10.13
70-80	10.52
80-90	9.67
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:13.1 Right:13.1
:C90/270Left:13.1 Right:13.1

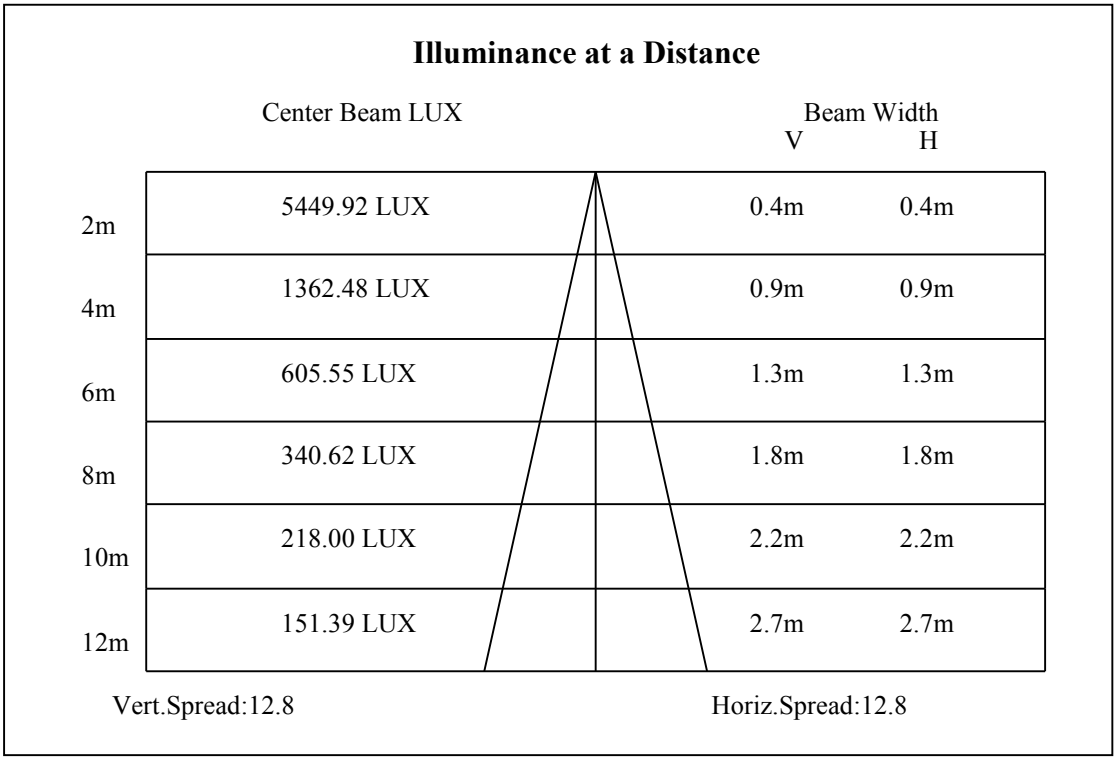
Beam Angle(50%Imax):C0/180Left:6.3 Right:6.3
:C90/270Left:6.3 Right:6.3

Equipment: GMS1980
Temperature(°C): 25.0

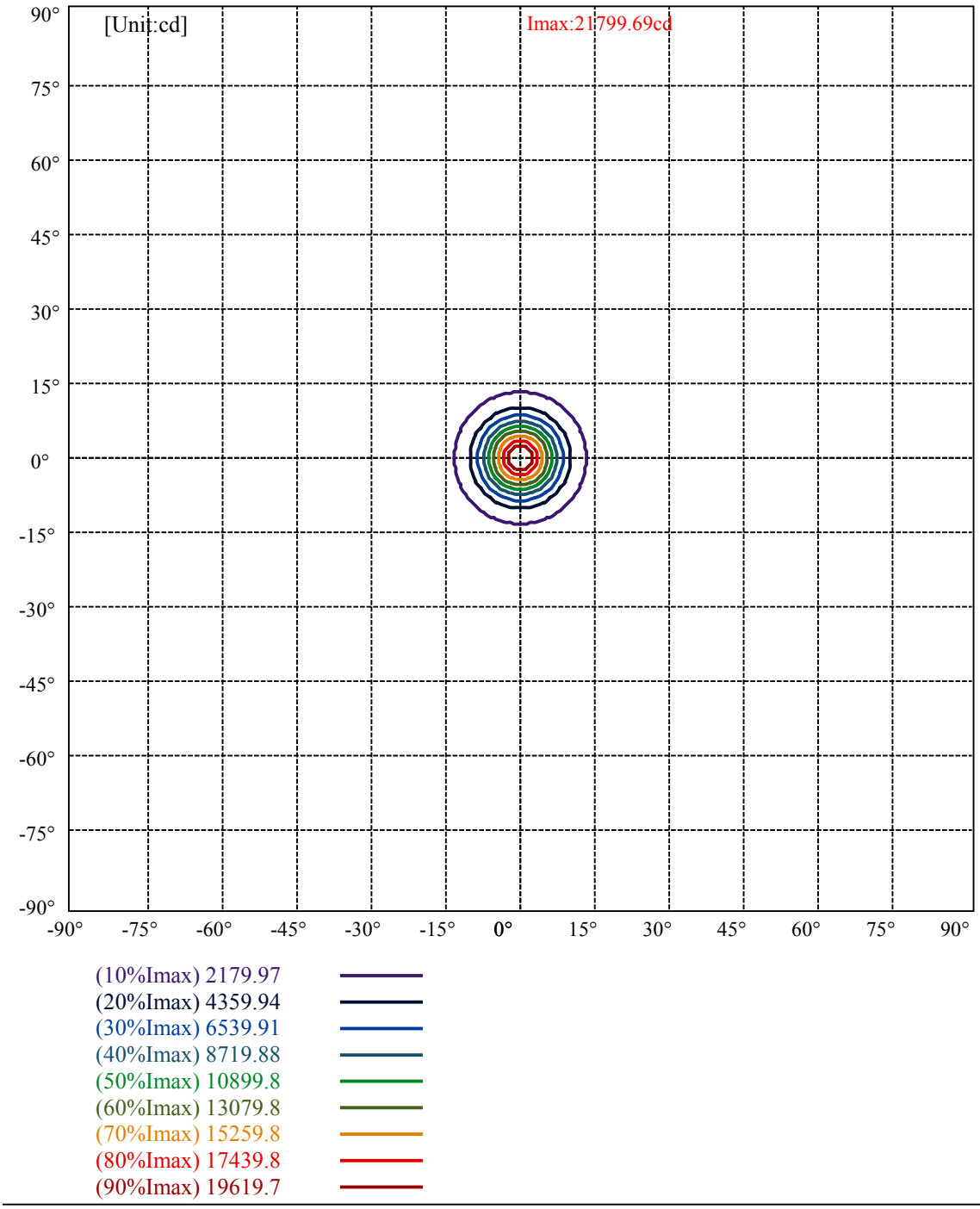
Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Lux distance Curve



ISO-Intensity(V-H)

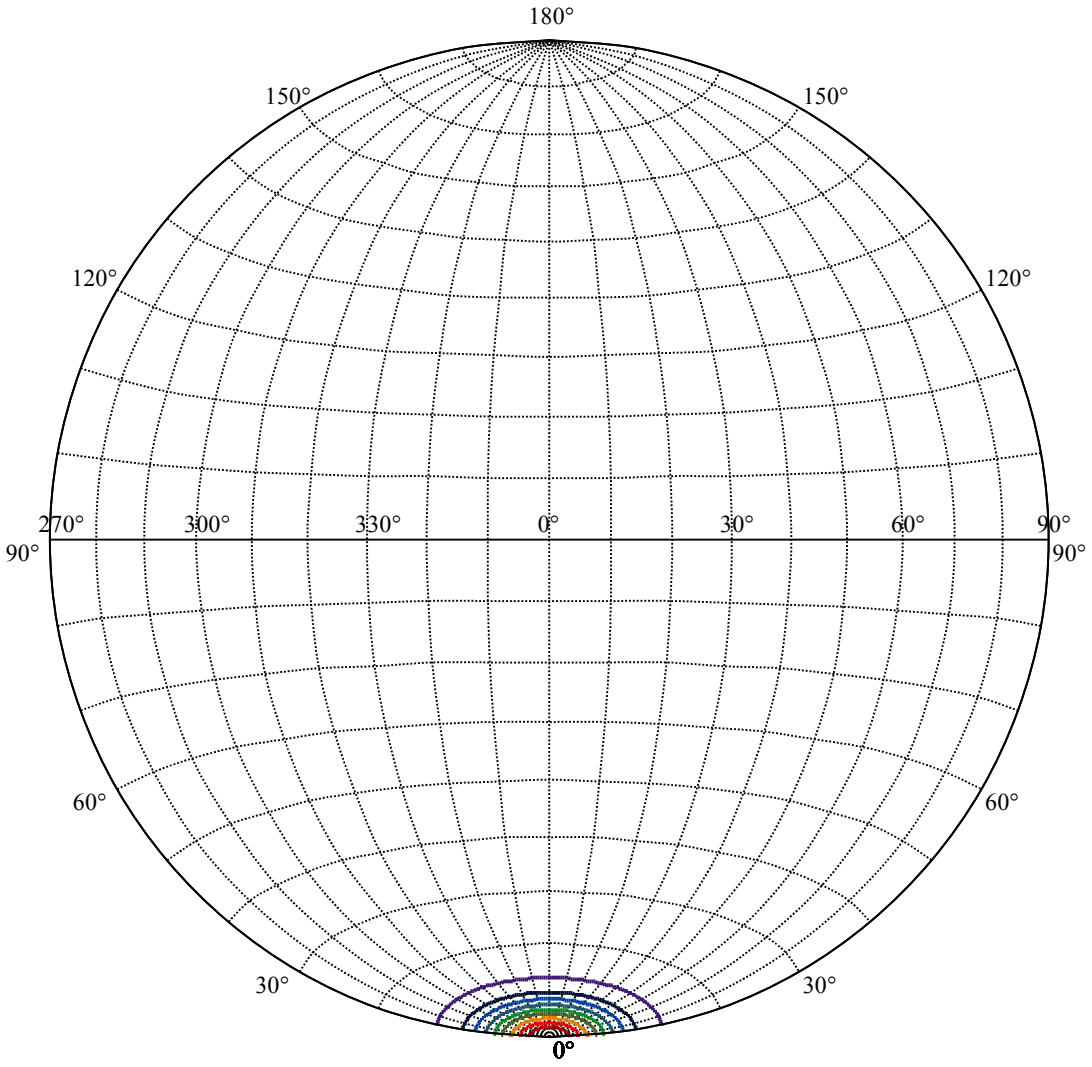


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



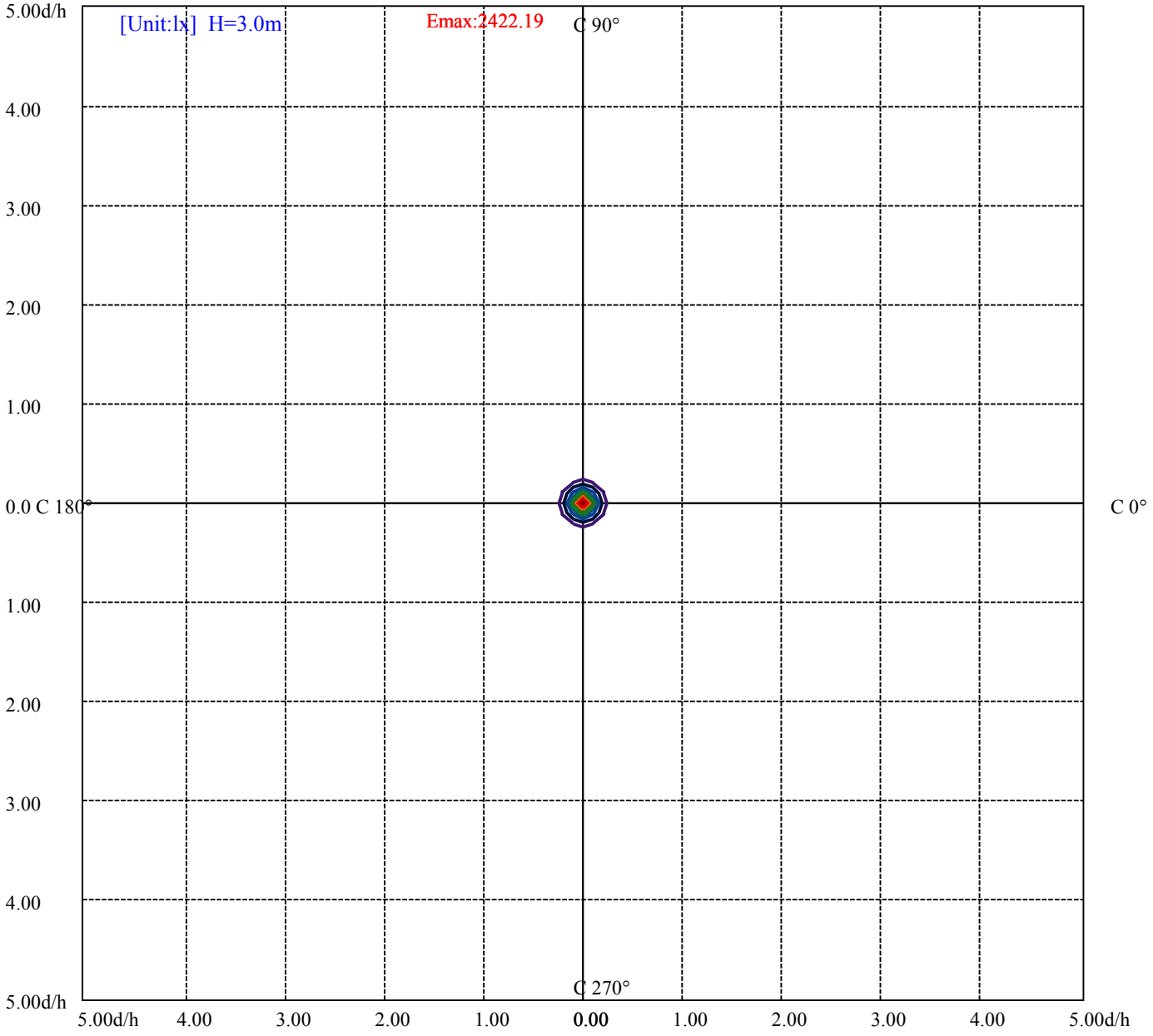
House [Unit:cd] Road

Imax:21799.69

(10%Imax) 2179.97
(20%Imax) 4359.94
(30%Imax) 6539.91
(40%Imax) 8719.88
(50%Imax) 10899.8
(60%Imax) 13079.8
(70%Imax) 15259.8
(80%Imax) 17439.8
(90%Imax) 19619.7

Equipment: GMS1980 Date: 2018/9/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

ISO illuminance diagram

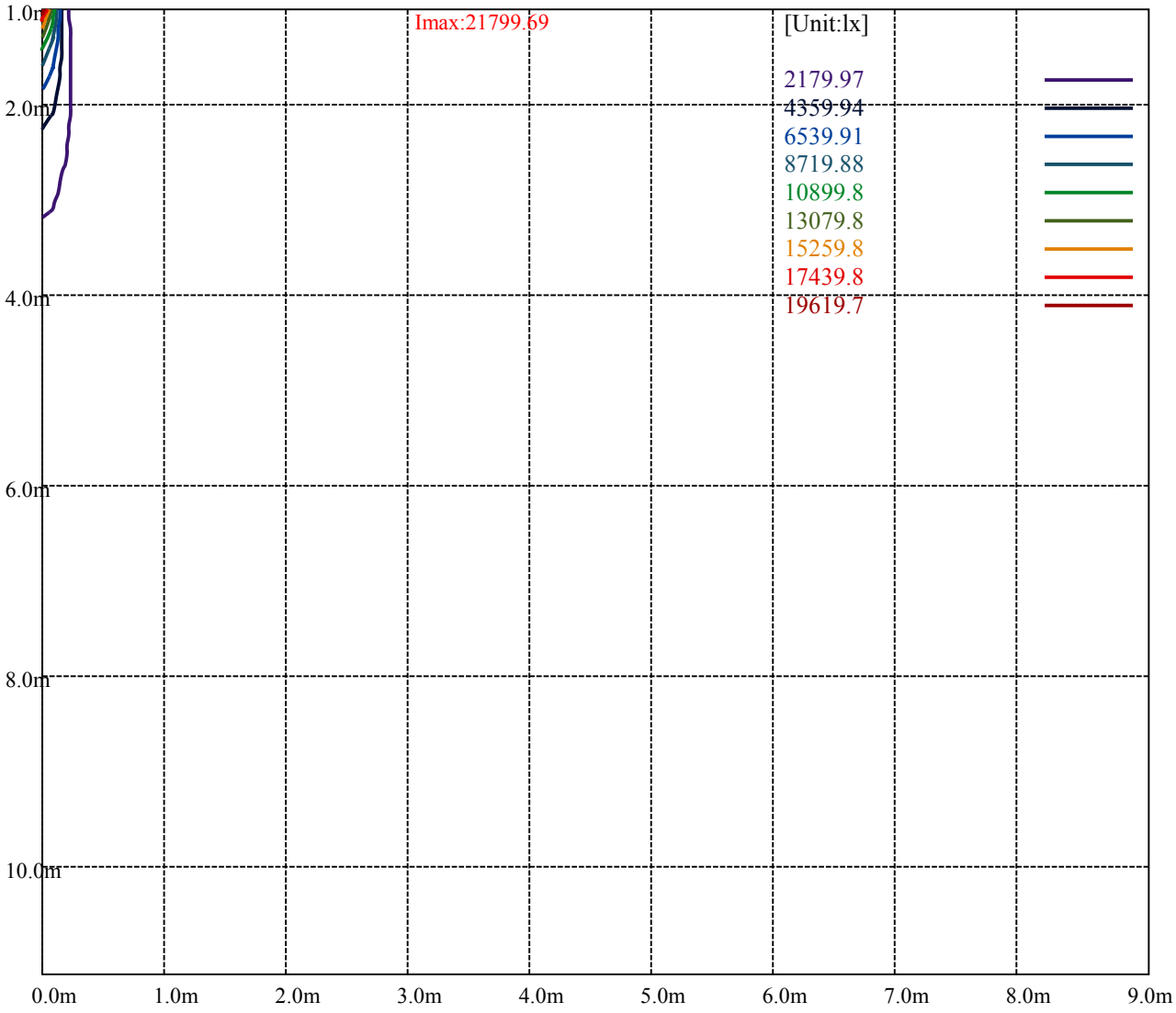


Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

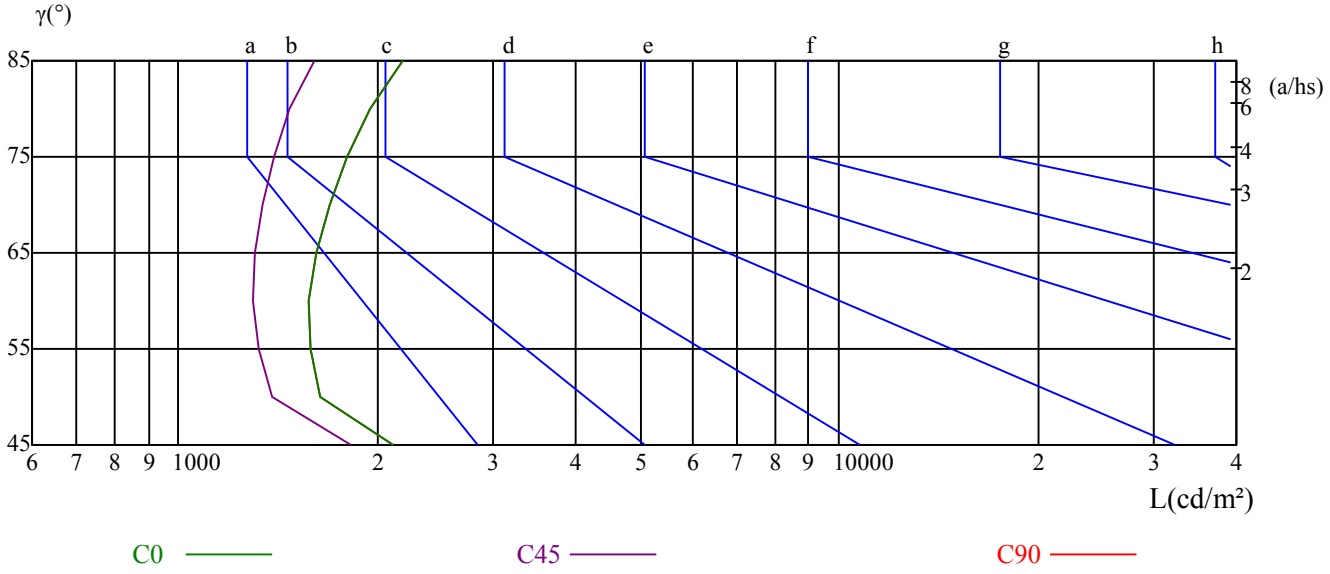
γ	45	50	55	60	65	70	75	80	85
C0	2115	1635	1584	1578	1618	1692	1800	1951	2186
C45	1819	1386	1321	1295	1304	1338	1393	1472	1602
C90	2115	1635	1584	1578	1618	1692	1800	1951	2186

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3857	3857	3857	6138	6138	6138	18317	18317	18317

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): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

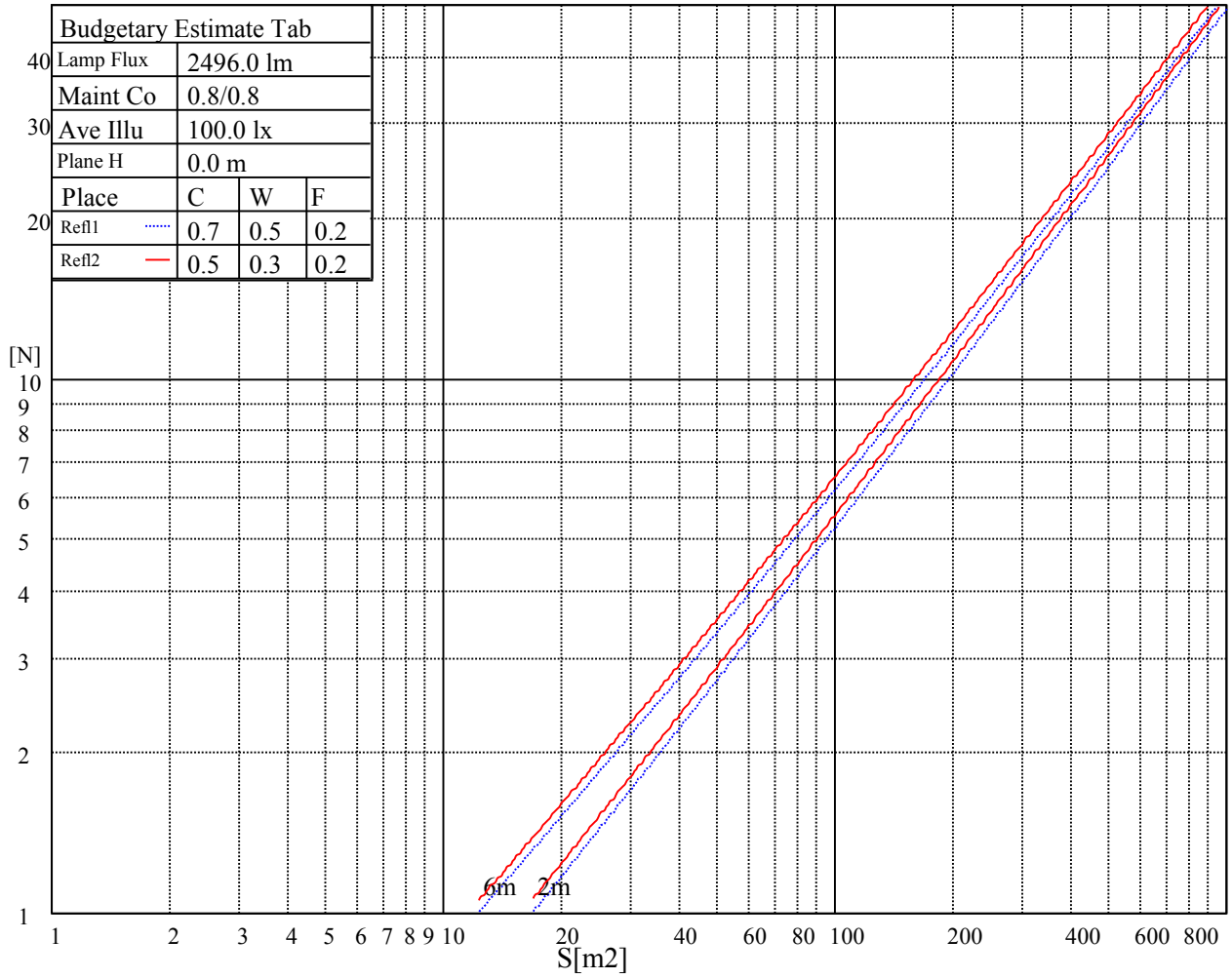
Operator: NT07
Distance(m): 7.50

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	-0.13	0.78	0.23	1.09	1.40	-0.17	0.74	0.20	1.05	1.37
	3H	2.15	2.96	2.54	3.29	3.66	2.13	2.93	2.51	3.26	3.63
	4H	3.41	4.15	3.82	4.50	4.89	3.39	4.13	3.80	4.48	4.87
	6H	4.73	5.41	5.15	5.78	6.18	4.71	5.39	5.13	5.77	6.16
	8H	5.40	6.03	5.84	6.43	6.84	5.38	6.01	5.82	6.41	6.82
	12H	6.45	7.06	6.89	7.44	7.87	6.41	7.02	6.85	7.40	7.84
4H	2H	0.36	1.10	0.77	1.46	1.85	0.33	1.07	0.74	1.43	1.82
	3H	2.94	3.55	3.36	3.96	4.37	2.92	3.53	3.34	3.94	4.35
	4H	4.37	4.91	4.81	5.34	5.79	4.35	4.90	4.79	5.32	5.77
	6H	5.79	6.25	6.26	6.70	7.18	5.78	6.24	6.25	6.69	7.17
	8H	6.57	7.00	7.05	7.45	7.93	6.55	6.99	7.03	7.44	7.92
	12H	7.61	7.98	8.11	8.47	8.95	7.58	7.95	8.08	8.44	8.92
8H	4H	4.81	5.24	5.28	5.69	6.17	4.80	5.23	5.28	5.68	6.16
	6H	6.46	6.80	6.97	7.31	7.79	6.46	6.80	6.97	7.30	7.79
	8H	7.40	7.70	7.94	8.23	8.72	7.39	7.69	7.92	8.21	8.71
	12H	8.58	8.83	9.10	9.33	9.92	8.55	8.80	9.07	9.30	9.89
12H	4H	4.90	5.27	5.39	5.76	6.24	4.89	5.26	5.38	5.75	6.23
	6H	6.83	6.94	7.17	7.41	7.96	6.83	6.93	7.17	7.41	7.96
	8H	7.67	7.93	8.20	8.43	9.01	7.66	7.92	8.18	8.42	9.00

Variation with the observer position at spacings:		
S = 1.0H	5.8/-8.3	5.8/-8.3
S = 1.5H	8.3/-6.6	8.3/-6.6
S = 2.0H	9.9/-5.3	9.9/-5.3
Standard tables:	BK1	BK1
Uncorrected UGR	-3.1	-3.1

Budgetary Estimate Table

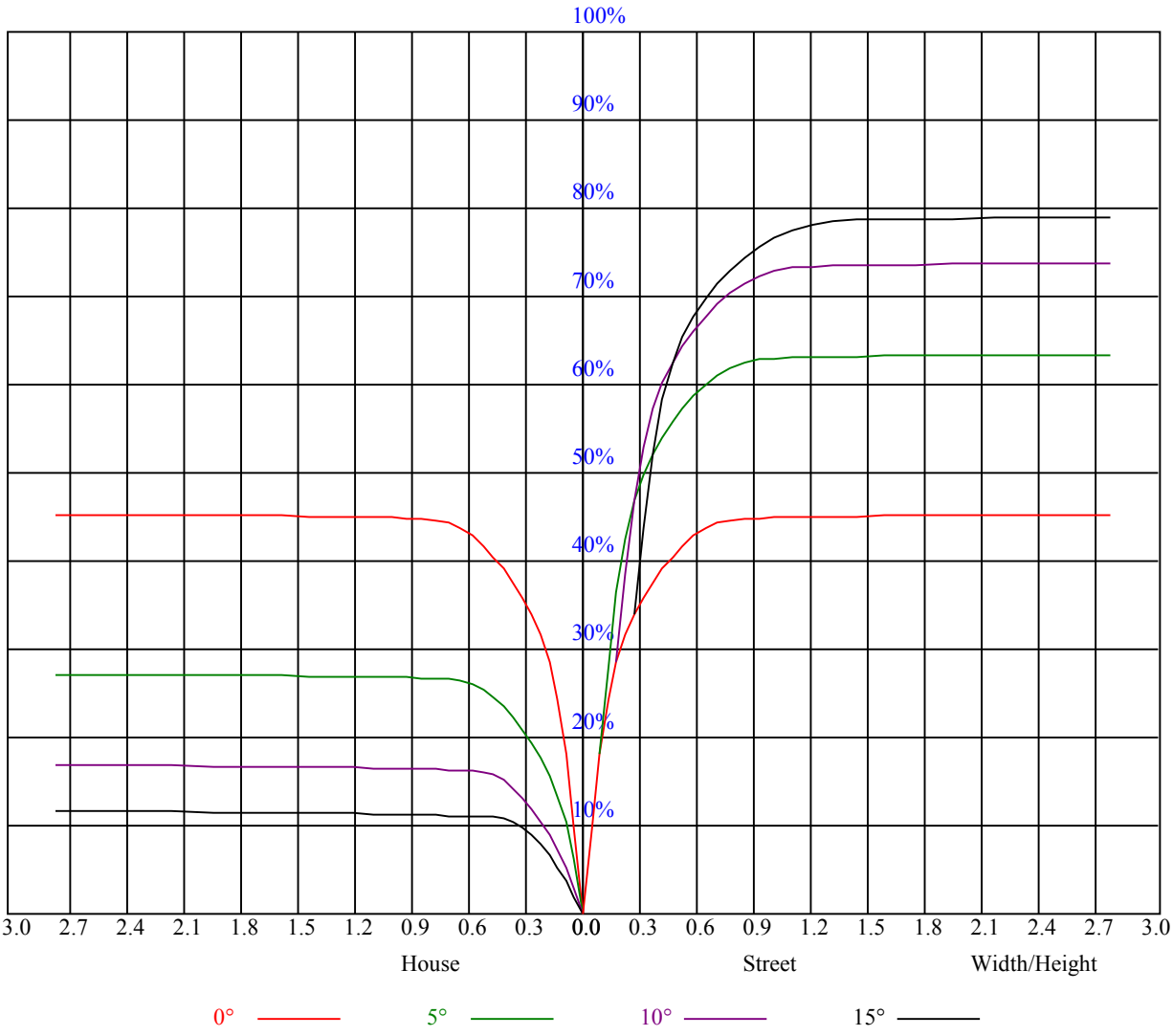


Equipment: GMS1980 Date: 2018/9/12 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.50

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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.99	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	0.87
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.92	0.88	0.86	0.89	0.87	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.82	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.76	0.75
6	0.82	0.78	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.77	0.74	0.78	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.74	0.72	0.71
8	0.77	0.73	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.74	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.71	0.68	0.66	0.65

Coefficient Utilization Curve



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2018/9/12
Humidity(%): 60.0%

Operator: NT07
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	22224.38	21189.38	19850.63	17392.50	15136.88	12841.88	10141.88	8173.13	6401.25
45.0	21600.00	22404.38	22258.13	21166.88	19541.25	17280.00	14788.13	12515.63	10338.75
90.0	21898.13	22578.75	22275.00	20941.88	18956.25	16869.38	14625.00	10973.25	9666.00
135.0	21476.25	22376.25	22477.50	21352.50	19771.88	17769.38	15030.00	12757.50	10614.38
180.0	22224.38	22252.50	21504.38	20070.00	17420.63	15513.75	12448.13	10490.06	8484.19
225.0	21600.00	20041.88	18146.25	15733.13	11129.63	10863.00	8850.94	6354.00	4998.38
270.0	21898.13	20632.50	18618.75	16188.75	13831.88	11278.13	8915.63	7042.50	5400.00
315.0	21476.25	19822.50	17656.88	15457.50	11148.19	10609.31	8350.31	6098.63	4764.94
360.0	22224.38	21189.38	19850.63	17392.50	15136.88	12841.88	10141.88	8173.13	6401.25

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4556.25	3459.38	2896.88	2180.25	1872.00	1632.94	1429.31	1285.88	1197.00
45.0	7886.25	6165.00	4708.13	3476.25	2840.63	2261.25	1905.75	1647.56	1458.56
90.0	7752.38	5661.56	4354.88	3388.50	2611.13	2196.00	1893.38	1605.38	1443.94
135.0	8415.00	6468.75	4995.00	3718.13	2958.75	2605.50	2023.31	1775.81	1553.63
180.0	6680.81	4952.81	3678.19	2929.50	2425.50	1995.19	1753.31	1560.94	1384.88
225.0	3782.25	2722.50	2304.56	1958.63	1680.19	1473.19	1332.00	1214.44	1121.23
270.0	3763.13	2908.13	2584.13	1968.75	1683.56	1487.81	1329.75	1190.81	1119.38
315.0	3447.56	2639.81	2181.94	1857.94	1548.00	1399.50	1274.63	1115.78	1103.18
360.0	4556.25	3459.38	2896.88	2180.25	1872.00	1632.94	1429.31	1285.88	1197.00

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1120.50	1062.56	1022.06	983.81	952.31	919.69	892.69	870.75	851.63
45.0	1298.81	1197.00	1115.44	1065.38	1024.88	991.13	957.38	924.75	893.25
90.0	1293.75	1121.68	1114.09	1055.87	1015.09	978.75	947.14	910.35	881.10
135.0	1378.69	1251.56	1154.81	1075.50	1025.44	986.63	948.38	914.06	884.25
180.0	1239.75	1118.70	1070.61	1024.93	983.31	946.24	916.03	889.26	858.04
225.0	1073.08	1028.48	988.09	950.18	918.23	886.11	864.11	842.12	826.65
270.0	1067.63	1022.63	984.94	955.69	921.38	895.50	870.75	850.50	835.88
315.0	1056.38	1016.33	973.46	939.71	907.20	878.51	855.84	839.14	823.50
360.0	1120.50	1062.56	1022.06	983.81	952.31	919.69	892.69	870.75	851.63

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	834.19	817.31	804.94	786.94	775.69	748.13	673.31	567.56	460.13
45.0	865.69	846.56	831.94	816.19	797.06	783.56	772.88	741.94	672.19
90.0	857.48	835.37	818.44	803.03	790.03	774.39	763.03	739.35	665.04
135.0	860.06	839.25	825.19	807.19	792.00	780.75	764.44	749.25	711.00
180.0	837.45	822.38	800.83	789.36	774.45	763.54	744.92	690.24	595.46
225.0	811.29	797.06	783.45	771.81	758.48	682.03	591.92	487.41	365.74
270.0	819.56	802.13	791.44	780.19	758.81	700.88	625.50	501.75	379.69
315.0	808.31	793.80	779.63	768.77	740.59	660.15	564.19	459.79	322.37
360.0	834.19	817.31	804.94	786.94	775.69	748.13	673.31	567.56	460.13

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	336.94	295.88	124.14	59.57	34.09	30.09	25.14	20.48	17.89
45.0	564.19	460.13	342.00	291.38	125.27	57.32	31.95	27.28	22.44
90.0	559.97	440.61	332.27	216.45	124.65	50.68	30.99	26.27	20.59
135.0	591.75	491.06	401.63	289.13	148.16	71.89	32.40	28.13	23.01
180.0	480.71	374.68	256.33	160.43	75.32	36.06	32.40	27.84	22.22
225.0	249.64	157.33	73.18	40.39	36.28	31.44	26.44	22.16	17.44
270.0	284.63	159.08	75.15	40.78	36.73	33.36	28.35	24.41	20.59
315.0	219.99	130.11	52.93	36.17	33.13	29.03	24.24	21.60	17.10
360.0	336.94	295.88	124.14	59.57	34.09	30.09	25.14	20.48	17.89

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	14.40	12.38	12.09	11.87	11.64	11.48	11.31	11.14	11.03
45.0	17.89	15.30	13.61	12.49	12.21	12.04	11.87	11.64	11.48
90.0	16.54	14.85	12.94	12.43	12.21	11.93	11.76	11.59	11.42
135.0	17.61	15.75	14.18	12.60	12.38	12.09	11.87	11.70	11.53
180.0	19.24	16.88	12.49	12.21	11.98	11.70	11.53	11.36	11.19
225.0	12.26	11.98	11.70	11.53	11.36	11.19	11.08	10.91	10.80
270.0	12.66	12.04	11.81	11.64	11.42	11.25	11.08	10.97	10.86
315.0	12.26	11.98	11.76	11.59	11.42	11.19	11.08	10.97	10.80
360.0	14.40	12.38	12.09	11.87	11.64	11.48	11.31	11.14	11.03

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.91	10.80	10.69	10.58	10.52	10.46	10.35	10.29	10.24
45.0	11.36	11.25	11.08	10.97	10.86	10.74	10.63	10.58	10.52
90.0	11.31	11.14	11.03	10.86	10.74	10.69	10.58	10.52	10.46
135.0	11.36	11.19	11.03	10.91	10.80	10.69	10.63	10.52	10.46
180.0	11.03	10.91	10.74	10.69	10.58	10.46	10.41	10.35	10.29
225.0	10.69	10.63	10.52	10.46	10.41	10.35	10.29	10.24	10.18
270.0	10.74	10.63	10.52	10.52	10.41	10.35	10.29	10.24	10.18
315.0	10.69	10.63	10.52	10.41	10.35	10.29	10.24	10.18	10.13
360.0	10.91	10.80	10.69	10.58	10.52	10.46	10.35	10.29	10.24

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.18	10.13	10.07	10.07	10.01	10.01	9.96	9.96	9.90
45.0	10.46	10.41	10.35	10.29	10.24	10.18	10.18	10.13	10.13
90.0	10.41	10.35	10.29	10.24	10.18	10.13	10.13	10.13	10.07
135.0	10.35	10.35	10.29	10.24	10.18	10.13	10.13	10.07	10.07
180.0	10.24	10.24	10.18	10.13	10.07	10.07	10.01	10.01	10.01
225.0	10.18	10.13	10.13	10.07	10.07	10.01	10.01	10.01	10.01
270.0	10.18	10.13	10.07	10.07	10.01	10.01	10.01	9.96	9.96
315.0	10.07	10.07	10.01	10.01	9.96	9.96	9.90	9.90	9.90
360.0	10.18	10.13	10.07	10.07	10.01	10.01	9.96	9.96	9.90

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.79	9.84
45.0	10.07	10.07	10.01	10.01	10.01	9.96	9.96	9.90	9.90
90.0	10.07	10.01	10.01	9.96	9.90	9.90	9.90	9.90	9.84
135.0	10.01	10.01	10.01	9.96	9.96	9.96	9.90	9.90	9.90
180.0	9.96	9.96	9.96	9.90	9.90	9.90	9.84	9.84	9.84
225.0	9.96	9.96	9.96	9.90	9.90	9.90	9.90	9.84	9.84
270.0	9.96	9.90	9.90	9.90	9.90	9.90	9.90	9.84	9.90
315.0	9.90	9.84	9.84	9.84	9.84	9.84	9.79	9.79	9.79
360.0	9.90	9.90	9.90	9.84	9.84	9.84	9.84	9.79	9.84

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.79	9.79	9.73	9.79	9.79	9.79	9.68	9.68	9.68
45.0	9.84	9.90	9.84	9.90	9.90	9.96	10.01	9.73	9.73
90.0	9.84	9.84	9.90	9.84	9.90	10.01	9.90	9.73	9.68
135.0	9.90	9.84	9.84	9.84	9.90	9.90	10.01	9.73	9.68
180.0	9.84	9.84	9.84	9.90	10.01	10.13	10.01	9.68	9.62
225.0	9.84	9.90	9.96	10.13	10.24	9.84	9.73	9.73	9.73
270.0	9.84	9.84	9.90	10.01	10.18	10.41	9.73	9.68	9.73
315.0	9.79	9.79	9.79	9.79	9.79	9.84	9.68	9.68	9.68
360.0	9.79	9.79	9.73	9.79	9.79	9.79	9.68	9.68	9.68

Intensity data(cd)

C/γ(°)	90.0
0.0	9.68
45.0	9.73
90.0	9.68
135.0	9.68
180.0	9.68
225.0	9.73
270.0	9.68
315.0	9.68
360.0	9.68