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NATA

LumCAT: 3-1701-N
Luminaire: 92.70.074.00+92.70.061.00

Report No: NATA0100	Voltage(V): 37.0000
Test No: GC2019012607	Current(A): 0.6000
LampCAT: CREE CXA1816	Power (W): 22.2000
Lamp flux(lm): 2071.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 86	Width(mm): 86
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1609.09
Efficiency(%): 77.70%
Lumens(lm)/Power(W): 72.60
Central intensity(cd): 11265.330
Maximum intensity(cd): 11265.330
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=16.5
[C90/270]Total=16.5
Field angle(10%Imax): [C0/180]Total=30.5
[C90/270]Total=30.5
Maximum s/h(1/2): C0_180=0.28 C90_270=0.28
Maximum s/h(1/4): C0_180=0.27 C90_270=0.27
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.82%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.415%

Equipment: GMS1980	Date: 2019/1/26	Operator: NT07
Temperature(°C): 10.0	Humidity(%): 65.0%	Distance(m): 7.50

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11265.328	2.695	2.695	.130%	.167%
1.0	11240.438	21.512	24.208	1.039%	1.504%
2.0	10833.820	41.462	65.67	2.002%	4.081%
3.0	10184.344	58.450	124.12	2.822%	7.714%
4.0	9477.141	72.496	196.616	3.501%	12.219%
5.0	8585.297	82.055	278.67	3.962%	17.319%
6.0	7745.273	88.782	367.452	4.287%	22.836%
7.0	6840.984	91.425	458.877	4.415%	28.518%
8.0	5914.898	90.272	549.149	4.359%	34.128%
9.0	4869.984	83.543	632.693	4.034%	39.320%
10.0	3843.703	73.193	705.886	3.534%	43.869%
11.0	2921.133	61.123	767.009	2.951%	47.667%
12.0	2299.922	52.438	819.446	2.532%	50.926%
13.0	1698.398	41.897	861.343	2.023%	53.530%
14.0	1339.587	35.538	896.881	1.716%	55.738%
15.0	1151.592	32.685	929.566	1.578%	57.770%
16.0	1041.701	31.487	961.053	1.520%	59.726%
17.0	952.256	30.531	991.584	1.474%	61.624%
18.0	871.228	29.523	1021.108	1.426%	63.459%
19.0	811.786	28.982	1050.09	1.399%	65.260%
20.0	752.027	28.206	1078.296	1.362%	67.013%
21.0	696.206	27.360	1105.656	1.321%	68.713%
22.0	647.592	26.603	1132.259	1.285%	70.366%
23.0	595.013	25.495	1157.754	1.231%	71.951%
24.0	546.863	24.392	1182.146	1.178%	73.467%
25.0	503.761	23.347	1205.492	1.127%	74.918%
26.0	465.870	22.395	1227.888	1.081%	76.309%
27.0	427.275	21.272	1249.16	1.027%	77.631%
28.0	397.315	20.455	1269.614	.988%	78.903%
29.0	367.277	19.526	1289.141	.943%	80.116%
30.0	340.277	18.658	1307.798	.901%	81.276%
31.0	315.478	17.818	1325.616	.860%	82.383%
32.0	292.120	16.976	1342.592	.820%	83.438%
33.0	274.613	16.401	1358.993	.792%	84.457%
34.0	252.141	15.462	1374.455	.747%	85.418%
35.0	235.498	14.813	1389.267	.715%	86.339%
36.0	219.691	14.161	1403.428	.684%	87.219%
37.0	206.009	13.596	1417.024	.656%	88.064%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	192.656	13.007	1430.031	.628%	88.872%
39.0	180.373	12.448	1442.478	.601%	89.646%
40.0	169.566	11.952	1454.431	.577%	90.388%
41.0	158.217	11.383	1465.814	.550%	91.096%
42.0	145.301	10.662	1476.476	.515%	91.758%
43.0	131.948	9.868	1486.344	.476%	92.372%
44.0	119.496	9.103	1495.447	.440%	92.937%
45.0	107.044	8.300	1503.747	.401%	93.453%
46.0	96.518	7.614	1511.361	.368%	93.926%
47.0	86.590	6.945	1518.305	.335%	94.358%
48.0	78.638	6.408	1524.714	.309%	94.756%
49.0	71.079	5.883	1530.596	.284%	95.122%
50.0	64.259	5.398	1535.994	.261%	95.457%
51.0	58.395	4.977	1540.971	.240%	95.767%
52.0	52.643	4.549	1545.52	.220%	96.049%
53.0	47.025	4.118	1549.638	.199%	96.305%
54.0	41.991	3.725	1553.364	.180%	96.537%
55.0	37.814	3.397	1556.761	.164%	96.748%
56.0	34.109	3.101	1559.861	.150%	96.941%
57.0	31.120	2.862	1562.724	.138%	97.118%
58.0	28.336	2.635	1565.359	.127%	97.282%
59.0	26.009	2.445	1567.803	.118%	97.434%
60.0	23.822	2.262	1570.066	.109%	97.575%
61.0	21.980	2.108	1572.174	.102%	97.706%
62.0	20.538	1.989	1574.163	.096%	97.829%
63.0	19.441	1.900	1576.062	.092%	97.947%
64.0	18.626	1.836	1577.898	.089%	98.061%
65.0	17.916	1.781	1579.678	.086%	98.172%
66.0	17.276	1.731	1581.409	.084%	98.280%
67.0	16.622	1.678	1583.087	.081%	98.384%
68.0	16.059	1.633	1584.72	.079%	98.485%
69.0	15.455	1.582	1586.302	.076%	98.584%
70.0	14.920	1.538	1587.84	.074%	98.679%
71.0	14.365	1.489	1589.329	.072%	98.772%
72.0	13.859	1.445	1590.774	.070%	98.862%
73.0	13.416	1.407	1592.181	.068%	98.949%
74.0	12.987	1.369	1593.55	.066%	99.034%
75.0	12.551	1.329	1594.88	.064%	99.117%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.150	1.293	1596.173	.062%	99.197%
77.0	11.749	1.255	1597.428	.061%	99.275%
78.0	11.264	1.208	1598.636	.058%	99.350%
79.0	10.800	1.163	1599.799	.056%	99.423%
80.0	10.280	1.110	1600.909	.054%	99.492%
81.0	9.780	1.059	1601.968	.051%	99.557%
82.0	9.288	1.009	1602.977	.049%	99.620%
83.0	8.803	0.958	1603.935	.046%	99.680%
84.0	8.325	0.908	1604.843	.044%	99.736%
85.0	7.875	0.860	1605.703	.042%	99.790%
86.0	7.404	0.810	1606.513	.039%	99.840%
87.0	7.045	0.772	1607.285	.037%	99.888%
88.0	6.715	0.736	1608.021	.036%	99.934%
89.0	6.525	0.715	1608.736	.035%	99.978%
90.0	6.462	0.354	1609.09	.017%	100.000%

Zonal flux distribution table

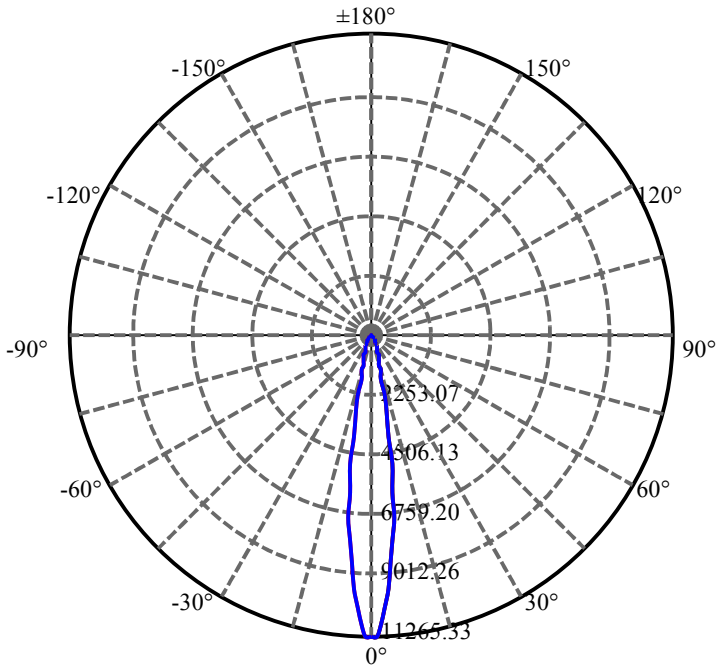
ZONAL LUMEN SUMMARY

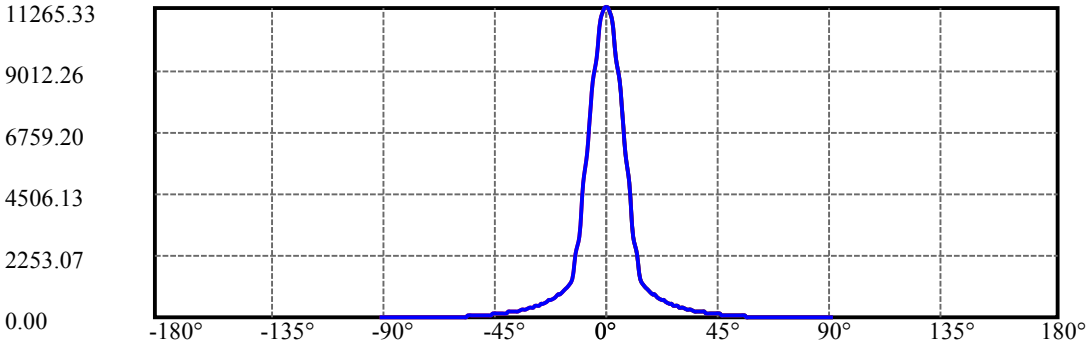
Zone	Lumens	%Lamp	%Fixt
0-30	1307.80	63.15%	81.28%
0-40	1454.43	70.23%	90.39%
0-60	1570.07	75.81%	97.57%
0-90	1608.74	77.68%	99.98%
0-120	1608.74	77.68%	99.98%
0-180	1609.09	77.70%	100.00%
60-90	40.93	1.98%	2.54%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.90	1287.27	62.16%	80.00%

ZONAL LUMEN SUMMARY

0-10	705.89
10-20	372.41
20-30	229.50
30-40	146.63
40-50	81.56
50-60	34.07
60-70	17.77
70-80	13.07
80-90	7.83
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):

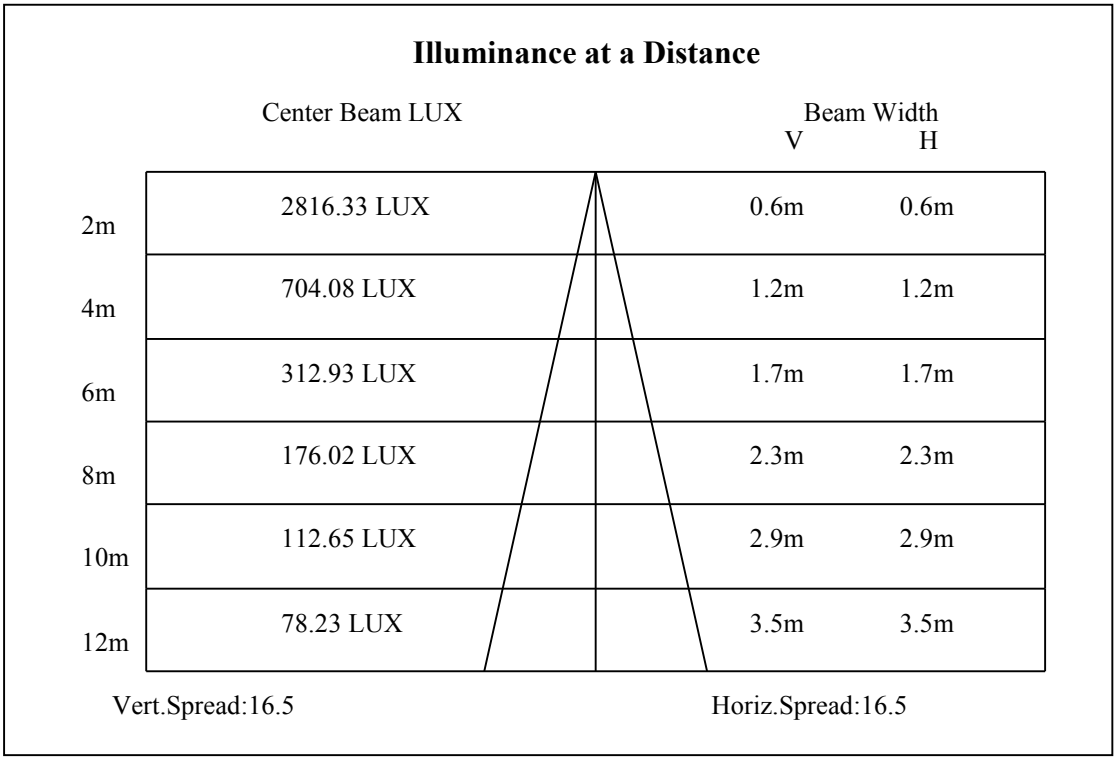
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:15.2 Right:15.2
:C90/270Left:15.2 Right:15.2

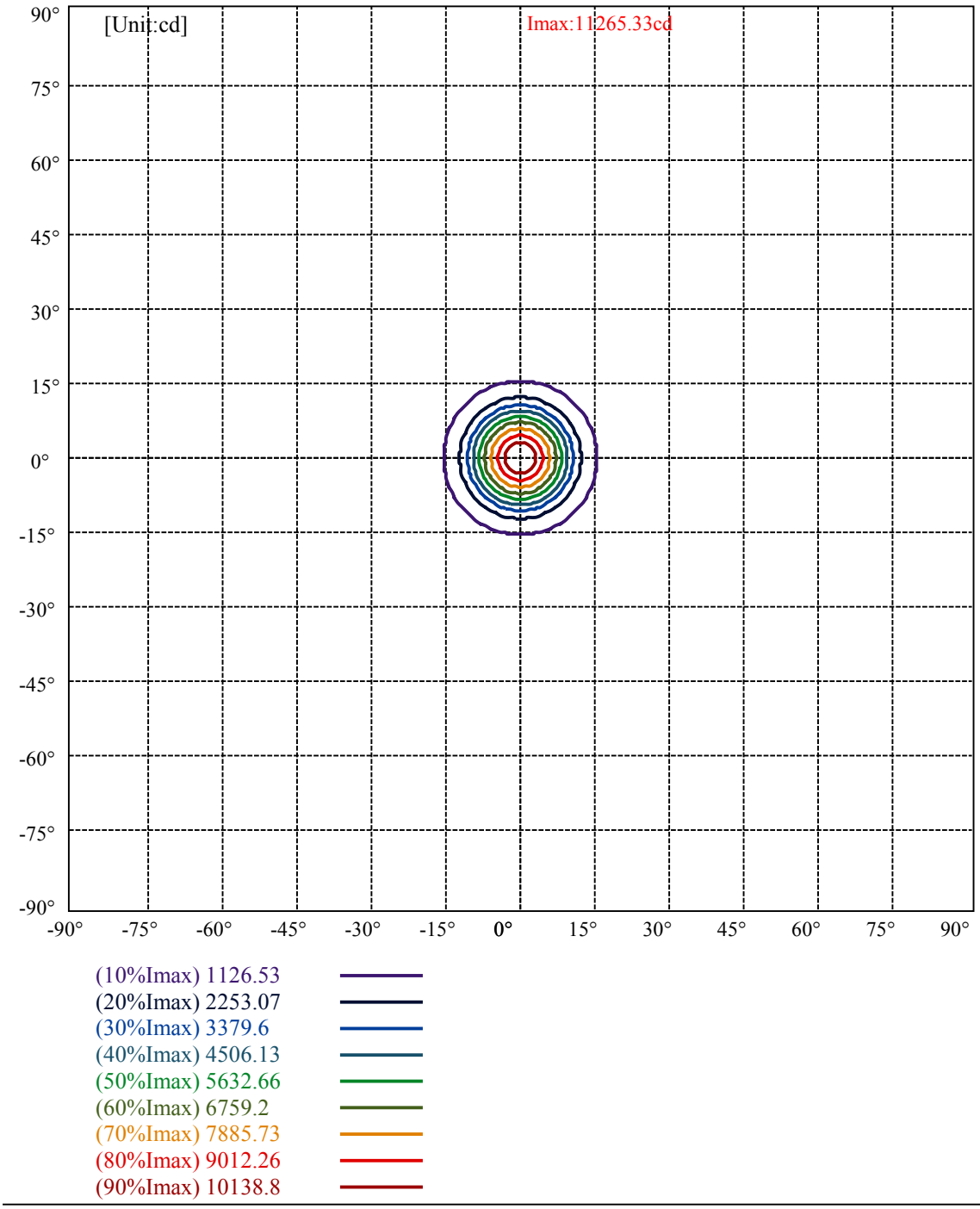
Beam Angle(50%Imax):C0/180Left:8.3 Right:8.3
:C90/270Left:8.3 Right:8.3

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/26 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

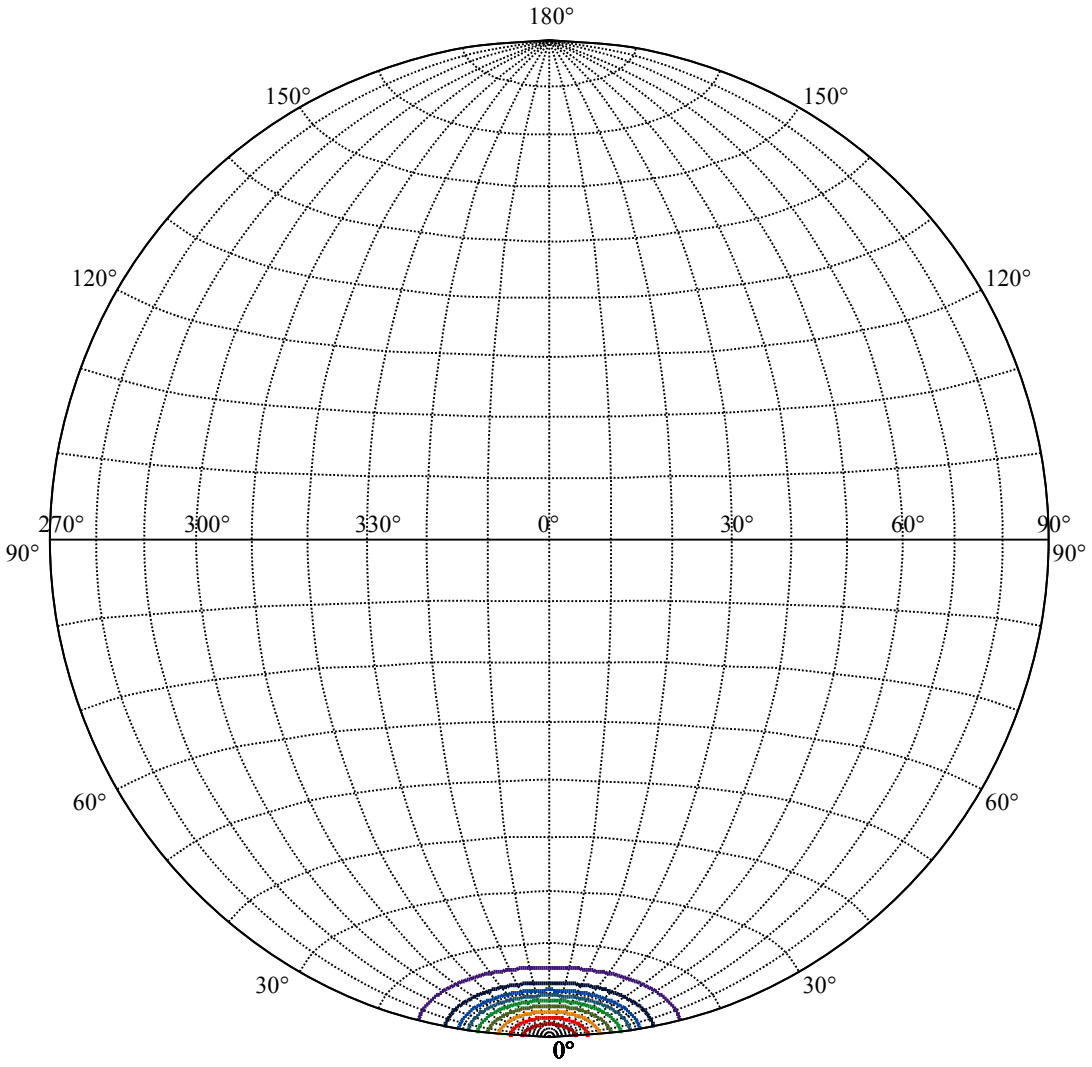


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/26
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:11265.33

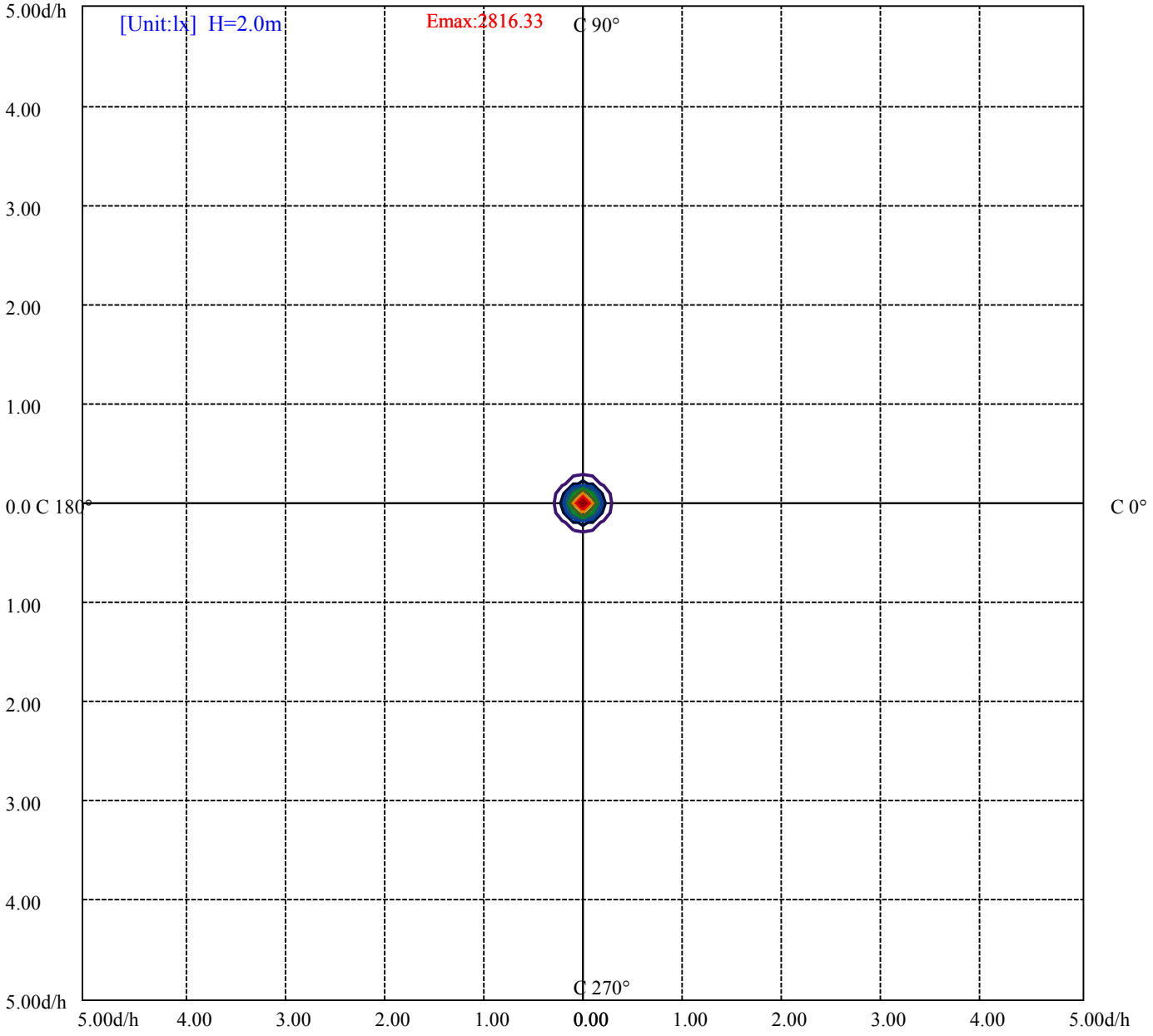
(10%Imax) 1126.53
(20%Imax) 2253.07
(30%Imax) 3379.6
(40%Imax) 4506.13
(50%Imax) 5632.66
(60%Imax) 6759.2
(70%Imax) 7885.73
(80%Imax) 9012.26
(90%Imax) 10138.8

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/26
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO illuminance diagram

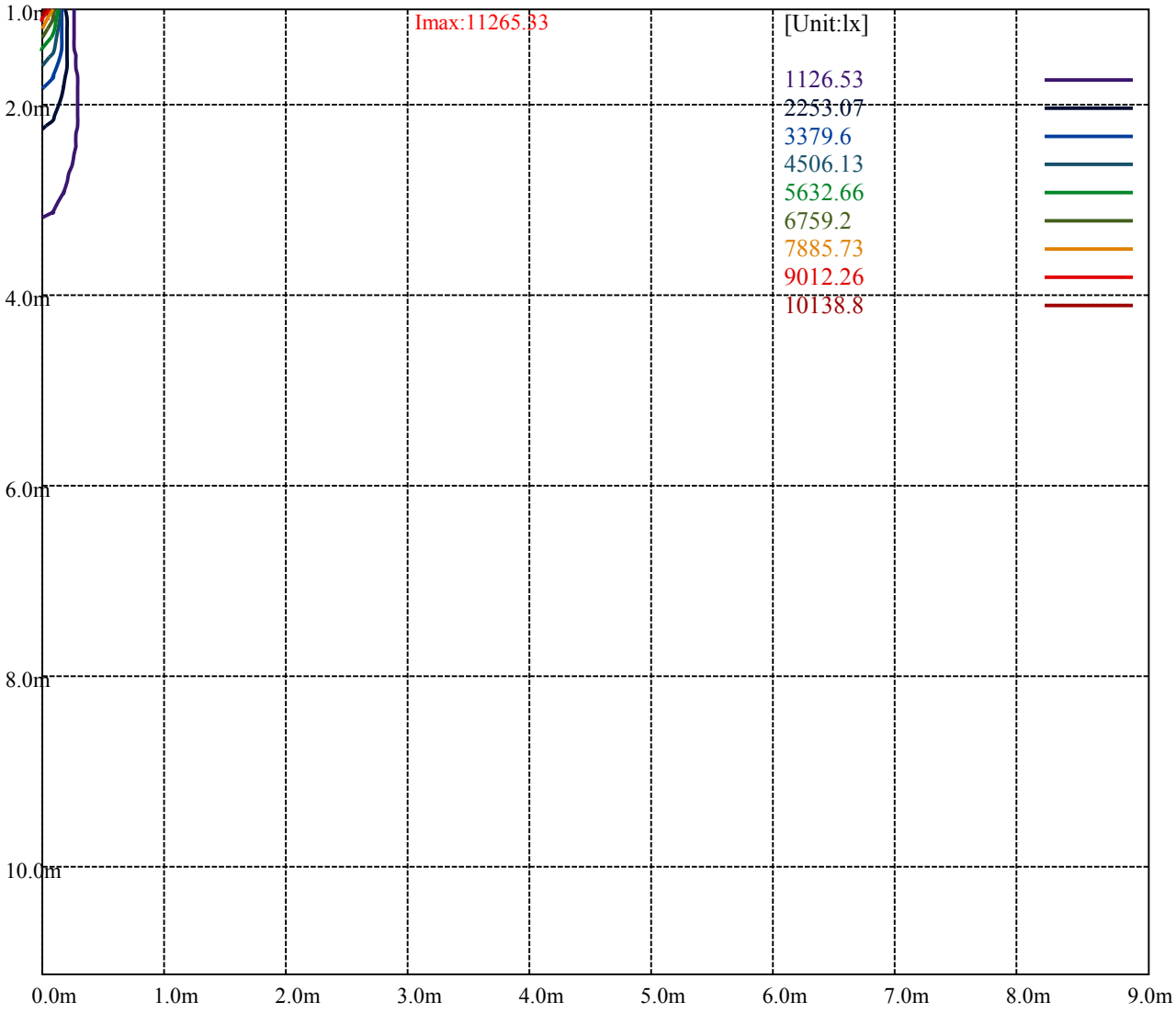


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/26
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/26
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

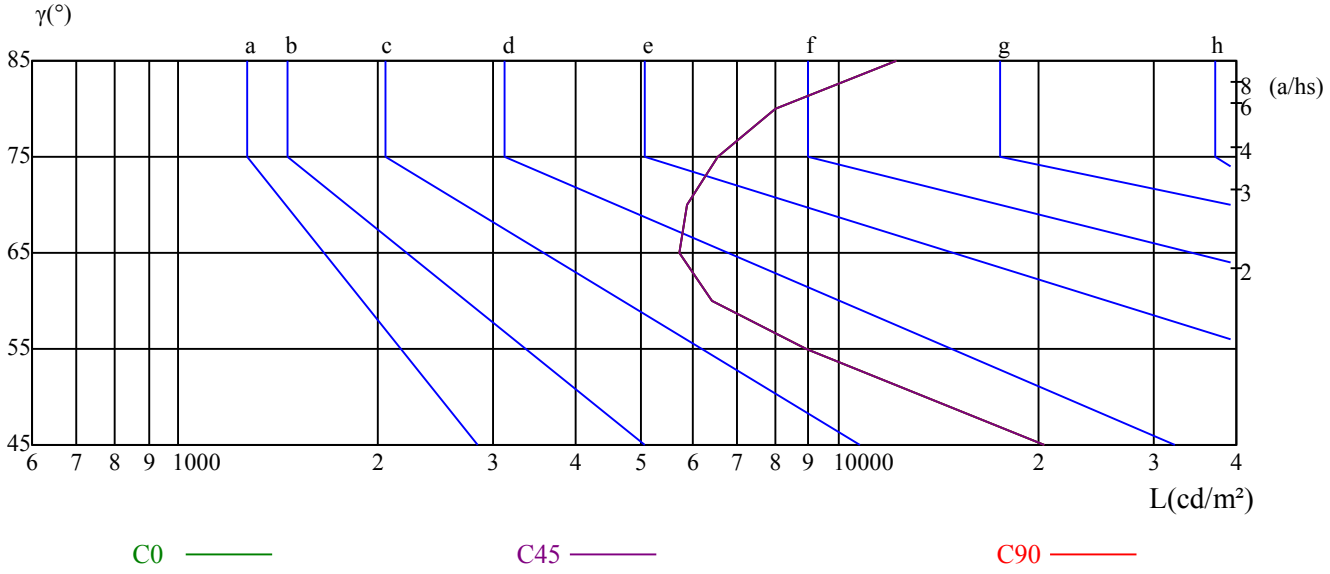
γ	45	50	55	60	65	70	75	80	85
C0	20468	13517	8914	6442	5732	5898	6557	8004	12217
C45	20468	13517	8914	6442	5732	5898	6557	8004	12217
C90	20468	13517	8914	6442	5732	5898	6557	8004	12217

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5732	5732	5732	6557	6557	6557	12217	12217	12217

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

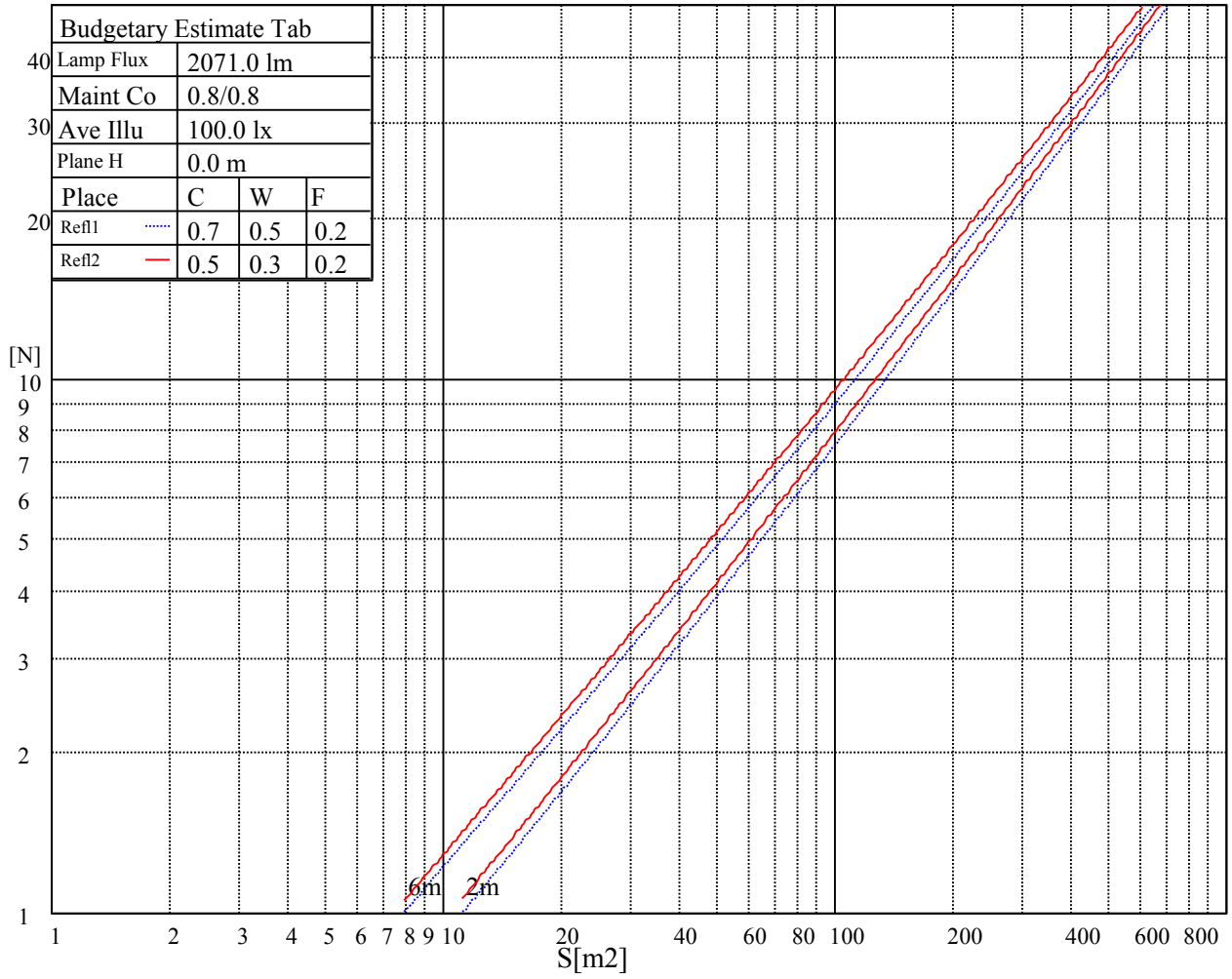
Luminance Limitting Curve



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	10.80	11.81	11.16	12.12	12.44	10.94	11.95	11.30	12.26	12.58
	3H	12.07	12.96	12.45	13.30	13.66	12.19	13.09	12.57	13.42	13.79
	4H	12.80	13.63	13.20	13.98	14.37	12.92	13.75	13.33	14.10	14.49
	6H	13.62	14.38	14.04	14.76	15.16	13.74	14.50	14.16	14.87	15.27
	8H	14.07	14.78	14.50	15.17	15.58	14.17	14.89	14.61	15.28	15.69
	12H	14.82	15.50	15.26	15.89	16.32	14.92	15.61	15.36	15.99	16.42
4H	2H	11.05	11.88	11.45	12.23	12.62	11.17	12.00	11.57	12.35	12.74
	3H	12.64	13.31	13.05	13.72	14.13	12.74	13.42	13.15	13.83	14.23
	4H	13.57	14.18	14.01	14.60	15.05	13.67	14.28	14.11	14.70	15.15
	6H	14.51	15.03	14.98	15.48	15.95	14.60	15.12	15.07	15.57	16.04
	8H	15.08	15.57	15.56	16.02	16.49	15.17	15.65	15.64	16.10	16.58
	12H	15.89	16.31	16.38	16.80	17.28	15.98	16.40	16.47	16.89	17.37
8H	4H	13.91	14.40	14.39	14.85	15.32	14.00	14.48	14.47	14.93	15.41
	6H	15.12	15.50	15.62	16.00	16.49	15.19	15.58	15.70	16.08	16.57
	8H	15.86	16.20	16.39	16.73	17.22	15.93	16.28	16.46	16.80	17.30
	12H	17.00	17.30	17.52	17.79	18.37	17.07	17.37	17.59	17.87	18.45
12H	4H	13.98	14.40	14.47	14.88	15.36	14.06	14.48	14.55	14.97	15.44
	6H	15.57	15.62	15.81	16.09	16.64	15.64	15.69	15.88	16.16	16.71
	8H	16.12	16.42	16.64	16.92	17.50	16.19	16.49	16.71	16.99	17.56

Variation with the observer position at spacings:		
S = 1.0H	1.4/-2.2	1.4/-2.2
S = 1.5H	2.6/-2.3	2.6/-2.3
S = 2.0H	4.0/-2.0	4.0/-2.0
Standard tables:	BK3	BK3
Uncorrected UGR	0.6	0.6

Budgetary Estimate Table

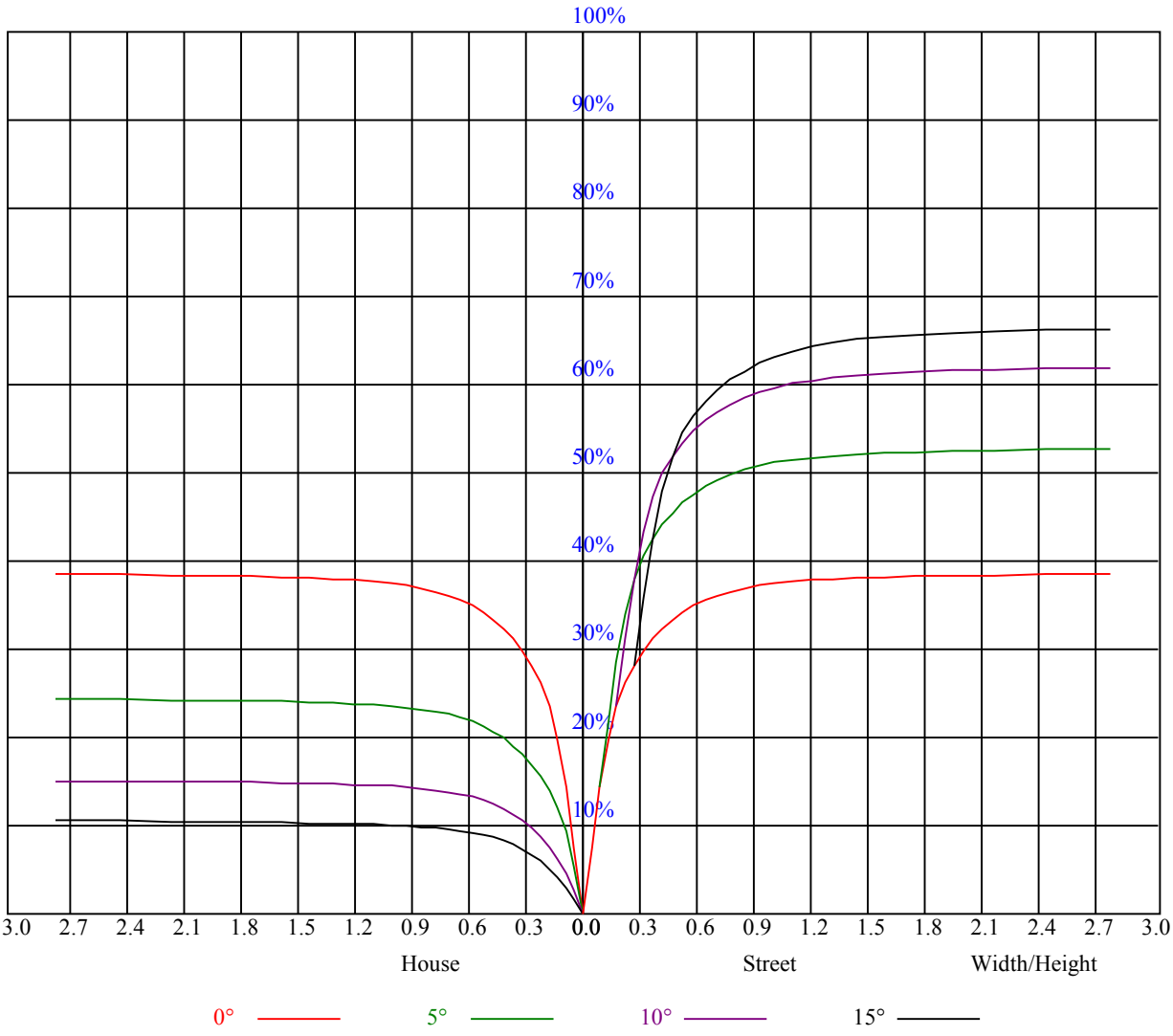


Equipment: GMS1980 Date: 2019/1/26 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.93	0.93	0.93	0.90	0.90	0.90	0.86	0.86	0.86	0.83	0.83	0.83	0.79	0.79	0.79	0.78
1	0.87	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.77	0.77	0.76	0.75	0.74
2	0.82	0.79	0.77	0.81	0.78	0.76	0.78	0.76	0.75	0.76	0.74	0.73	0.74	0.73	0.72	0.70
3	0.78	0.75	0.72	0.77	0.74	0.72	0.75	0.73	0.71	0.73	0.71	0.69	0.71	0.70	0.68	0.67
4	0.74	0.71	0.68	0.74	0.70	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.66	0.65
5	0.71	0.68	0.65	0.71	0.67	0.65	0.69	0.67	0.64	0.68	0.66	0.64	0.67	0.65	0.63	0.62
6	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
7	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
8	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.57	0.57
9	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
10	0.61	0.57	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.55	0.59	0.56	0.54	0.54

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/26	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	11199.38	11520.00	11430.00	10929.38	10299.38	9376.88	8386.88	7560.00	6766.88
45.0	11181.94	11452.50	11115.00	10563.75	9877.50	8893.13	8066.25	7245.00	6300.00
90.0	11210.63	11163.38	10586.81	9857.25	9227.25	8427.94	7674.75	6762.94	5708.25
135.0	11469.38	11199.38	10665.00	9950.63	9337.50	8595.00	7785.00	6958.13	6142.50
180.0	11199.38	10818.00	10175.06	9423.56	8621.44	7878.94	7085.25	5967.00	4962.94
225.0	11181.94	11130.19	10529.44	9717.19	8885.25	7930.13	7088.63	6157.69	5120.44
270.0	11210.63	11413.13	11036.25	10496.25	9759.38	8696.25	7824.38	6969.38	6153.75
315.0	11469.38	11226.94	11133.00	10536.75	9809.44	8884.13	8051.06	7107.75	6164.44
360.0	11199.38	11520.00	11430.00	10929.38	10299.38	9376.88	8386.88	7560.00	6766.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5754.38	4876.88	3954.38	2958.75	2443.50	1658.25	1314.00	1128.94	1023.75
45.0	5310.00	4325.63	3251.25	2930.63	1787.63	1438.31	1229.06	1099.69	1004.06
90.0	4681.13	3533.63	2556.00	1926.00	1527.75	1262.25	1117.58	1029.66	936.73
135.0	4747.50	3706.88	2880.00	1984.50	1512.00	1289.81	1140.19	1025.44	941.63
180.0	3918.94	2741.06	2035.13	1579.50	1319.06	1121.79	1032.75	948.09	868.05
225.0	4168.69	3121.31	2170.13	1709.44	1391.06	1111.84	1075.33	986.29	911.14
270.0	5096.25	4196.25	3301.88	2880.00	1772.44	1455.19	1197.00	1064.81	984.94
315.0	5283.00	4248.00	3220.31	2430.56	1833.75	1379.25	1106.83	1050.69	947.76
360.0	5754.38	4876.88	3954.38	2958.75	2443.50	1658.25	1314.00	1128.94	1023.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	929.25	860.06	794.25	736.88	689.06	635.63	582.19	537.75	496.13
45.0	919.13	853.31	781.88	728.44	675.56	612.00	564.19	520.88	482.06
90.0	861.13	806.06	748.07	693.62	644.79	591.75	549.23	505.63	470.08
135.0	865.13	809.44	750.94	696.94	648.56	595.69	547.31	507.94	471.94
180.0	804.32	752.68	698.57	644.23	596.48	547.59	507.43	466.88	431.27
225.0	833.85	779.51	720.23	663.19	613.07	565.48	516.60	473.46	439.59
270.0	890.44	828.00	775.13	712.69	665.44	617.06	558.56	515.25	475.88
315.0	866.59	805.22	747.17	693.68	647.78	594.90	549.39	502.31	460.01
360.0	929.25	860.06	794.25	736.88	689.06	635.63	582.19	537.75	496.13

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	448.88	416.25	388.13	358.88	331.88	309.38	285.75	261.56	244.35
45.0	438.75	407.81	379.69	350.44	323.44	302.63	284.06	257.96	243.00
90.0	433.74	403.71	368.55	343.29	319.84	292.95	273.49	255.38	236.93
135.0	432.56	402.75	374.63	344.25	316.69	295.88	286.31	254.36	238.05
180.0	402.47	376.20	345.32	322.26	300.38	276.41	259.59	244.41	228.99
225.0	404.83	376.65	348.98	322.99	301.89	280.63	261.45	245.81	231.08
270.0	431.44	400.50	372.38	344.81	318.38	297.00	284.06	252.96	236.53
315.0	425.53	394.65	360.56	335.31	311.34	282.09	262.18	244.69	225.06
360.0	448.88	416.25	388.13	358.88	331.88	309.38	285.75	261.56	244.35

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	228.66	212.85	198.17	186.24	173.93	163.58	152.04	139.44	127.80
45.0	226.46	212.34	198.00	185.34	174.09	162.96	149.18	136.52	124.48
90.0	219.43	204.13	191.03	176.63	165.60	154.58	140.23	126.28	112.78
135.0	222.81	209.48	195.92	183.66	172.52	160.99	147.21	133.14	120.38
180.0	214.82	203.51	191.70	181.01	169.65	155.19	142.43	127.52	113.51
225.0	214.99	203.46	192.99	180.34	170.83	158.79	144.39	130.16	117.79
270.0	219.54	204.24	190.01	177.02	167.18	157.67	144.45	133.03	121.78
315.0	210.83	198.06	183.43	172.74	162.73	151.99	142.48	129.49	117.45
360.0	228.66	212.85	198.17	186.24	173.93	163.58	152.04	139.44	127.80

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	115.26	103.44	93.94	86.40	76.11	69.64	64.35	57.49	51.64
45.0	110.14	99.73	90.34	81.11	73.46	67.33	60.86	54.68	49.39
90.0	101.70	92.08	81.45	74.36	68.06	60.92	55.41	49.95	44.78
135.0	107.16	95.51	86.57	78.92	70.37	64.29	58.50	52.20	46.13
180.0	102.38	92.64	82.52	75.54	68.96	61.09	55.24	49.44	43.03
225.0	104.68	94.16	84.21	75.94	69.30	62.10	55.74	50.29	45.11
270.0	107.94	97.31	87.75	78.58	70.99	64.91	58.67	53.55	47.98
315.0	107.10	97.26	85.95	78.24	71.38	63.79	58.39	53.55	48.15
360.0	115.26	103.44	93.94	86.40	76.11	69.64	64.35	57.49	51.64

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	47.31	41.68	37.46	34.59	31.16	28.63	26.10	23.96	22.16
45.0	43.82	39.60	35.61	32.18	29.53	27.17	24.53	22.73	21.09
90.0	39.26	35.61	32.46	29.42	26.83	24.69	22.67	20.93	19.69
135.0	41.29	36.84	33.13	30.26	27.45	25.26	23.06	21.21	19.91
180.0	38.87	35.33	31.56	29.19	26.61	24.08	22.56	20.87	19.74
225.0	39.54	35.83	32.68	29.59	26.83	24.75	22.73	20.93	19.69
270.0	42.81	38.70	34.93	31.73	29.19	26.94	24.41	22.67	21.15
315.0	43.03	38.93	35.04	32.01	29.08	26.55	24.53	22.56	20.87
360.0	47.31	41.68	37.46	34.59	31.16	28.63	26.10	23.96	22.16

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	20.70	19.41	18.73	18.11	17.33	16.82	16.26	15.64	15.02
45.0	19.63	18.90	18.23	17.49	16.82	16.31	15.69	15.13	14.63
90.0	18.79	18.11	17.44	16.76	16.20	15.69	14.96	14.51	14.01
135.0	19.13	18.28	17.66	17.04	16.31	15.81	15.24	14.74	14.12
180.0	19.07	18.34	17.49	16.93	16.31	15.69	15.13	14.63	14.12
225.0	18.84	18.11	17.44	16.76	16.20	15.58	14.96	14.46	13.95
270.0	19.74	18.96	18.28	17.61	16.93	16.37	15.75	15.19	14.57
315.0	19.63	18.90	18.06	17.49	16.88	16.20	15.64	15.08	14.51
360.0	20.70	19.41	18.73	18.11	17.33	16.82	16.26	15.64	15.02

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.57	14.06	13.61	13.22	12.77	12.43	11.93	11.42	10.97
45.0	14.06	13.67	13.22	12.71	12.32	11.98	11.42	11.03	10.46
90.0	13.44	13.05	12.66	12.21	11.81	11.42	10.91	10.46	9.90
135.0	13.73	13.22	12.83	12.32	11.93	11.53	10.97	10.52	10.01
180.0	13.61	13.11	12.66	12.26	11.81	11.25	10.86	10.35	9.79
225.0	13.44	13.05	12.66	12.26	11.87	11.48	11.03	10.52	10.01
270.0	14.06	13.61	13.22	12.77	12.38	11.98	11.53	11.03	10.58
315.0	13.95	13.56	13.05	12.66	12.32	11.93	11.48	11.08	10.52
360.0	14.57	14.06	13.61	13.22	12.77	12.43	11.93	11.42	10.97

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.46	9.84	9.39	8.89	8.38	7.93	7.48	7.09	6.75
45.0	9.96	9.51	9.06	8.55	8.10	7.54	7.20	6.75	6.53
90.0	9.45	9.00	8.49	8.04	7.59	7.14	6.81	6.53	6.41
135.0	9.51	9.00	8.55	8.10	7.65	7.14	6.81	6.53	6.41
180.0	9.28	8.89	8.33	7.88	7.48	7.03	6.69	6.47	6.47
225.0	9.56	9.06	8.61	8.10	7.71	7.26	6.92	6.58	6.41
270.0	10.01	9.45	9.00	8.49	8.04	7.54	7.20	6.86	6.58
315.0	10.01	9.56	9.00	8.55	8.04	7.65	7.26	6.92	6.64
360.0	10.46	9.84	9.39	8.89	8.38	7.93	7.48	7.09	6.75

Intensity data(cd)

C/γ(°)	90.0
0.0	6.53
45.0	6.47
90.0	6.41
135.0	6.47
180.0	6.47
225.0	6.41
270.0	6.47
315.0	6.47
360.0	6.53