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NATA

LumCAT: 2-1258-N
Luminaire: 92.70.074.00+92.70.059.00

Report No: NATA0100	Voltage(V): 37.0000
Test No: GC2019012602	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): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1576.66
Efficiency(%): 76.13%
Lumens(lm)/Power(W): 71.13
Central intensity(cd): 10215.420
Maximum intensity(cd): 10215.420
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.3
[C90/270]Total=17.3
Field angle(10%Imax): [C0/180]Total=33.3
[C90/270]Total=33.3
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.28 C90_270=0.28
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 76.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.392%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10215.422	2.444	2.444	.118%	.155%
1.0	10186.523	19.495	21.939	.941%	1.392%
2.0	10081.477	38.583	60.522	1.863%	3.839%
3.0	9850.289	56.533	117.055	2.730%	7.424%
4.0	9420.258	72.061	189.116	3.480%	11.995%
5.0	8842.359	84.512	273.627	4.081%	17.355%
6.0	7914.375	90.720	364.347	4.380%	23.109%
7.0	6881.836	91.971	456.318	4.441%	28.942%
8.0	5853.516	89.335	545.654	4.314%	34.608%
9.0	4707.492	80.756	626.41	3.899%	39.730%
10.0	3647.742	69.462	695.871	3.354%	44.136%
11.0	2899.336	60.667	756.538	2.929%	47.983%
12.0	2269.758	51.750	808.288	2.499%	51.266%
13.0	1783.898	44.006	852.294	2.125%	54.057%
14.0	1486.125	39.426	891.72	1.904%	56.557%
15.0	1238.576	35.154	926.873	1.697%	58.787%
16.0	1102.943	33.338	960.212	1.610%	60.902%
17.0	972.745	31.188	991.4	1.506%	62.880%
18.0	877.669	29.742	1021.141	1.436%	64.766%
19.0	800.114	28.566	1049.707	1.379%	66.578%
20.0	732.291	27.465	1077.172	1.326%	68.320%
21.0	669.973	26.329	1103.502	1.271%	69.990%
22.0	618.117	25.392	1128.894	1.226%	71.600%
23.0	572.766	24.542	1153.435	1.185%	73.157%
24.0	524.377	23.389	1176.824	1.129%	74.640%
25.0	484.917	22.473	1199.298	1.085%	76.066%
26.0	449.051	21.587	1220.884	1.042%	77.435%
27.0	415.174	20.669	1241.554	.998%	78.746%
28.0	378.281	19.475	1261.029	.940%	79.981%
29.0	349.418	18.577	1279.606	.897%	81.159%
30.0	321.652	17.636	1297.242	.852%	82.278%
31.0	295.109	16.668	1313.909	.805%	83.335%
32.0	274.598	15.957	1329.867	.771%	84.347%
33.0	254.651	15.209	1345.076	.734%	85.312%
34.0	230.878	14.158	1359.234	.684%	86.210%
35.0	212.428	13.361	1372.595	.645%	87.057%
36.0	198.176	12.774	1385.369	.617%	87.867%
37.0	184.556	12.180	1397.549	.588%	88.640%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	172.484	11.645	1409.194	.562%	89.378%
39.0	160.741	11.093	1420.287	.536%	90.082%
40.0	148.964	10.500	1430.787	.507%	90.748%
41.0	137.313	9.879	1440.666	.477%	91.374%
42.0	126.352	9.271	1449.938	.448%	91.962%
43.0	115.003	8.601	1458.538	.415%	92.508%
44.0	105.455	8.033	1466.572	.388%	93.017%
45.0	96.975	7.520	1474.091	.363%	93.494%
46.0	87.405	6.895	1480.986	.333%	93.932%
47.0	79.678	6.390	1487.376	.309%	94.337%
48.0	72.907	5.941	1493.318	.287%	94.714%
49.0	66.213	5.480	1498.798	.265%	95.061%
50.0	59.963	5.037	1503.835	.243%	95.381%
51.0	55.125	4.698	1508.533	.227%	95.679%
52.0	50.449	4.360	1512.892	.211%	95.955%
53.0	45.942	4.024	1516.916	.194%	96.211%
54.0	42.152	3.740	1520.656	.181%	96.448%
55.0	38.503	3.459	1524.114	.167%	96.667%
56.0	35.135	3.194	1527.309	.154%	96.870%
57.0	31.950	2.938	1530.247	.142%	97.056%
58.0	29.327	2.727	1532.974	.132%	97.229%
59.0	26.986	2.537	1535.511	.122%	97.390%
60.0	24.848	2.360	1537.871	.114%	97.540%
61.0	22.802	2.187	1540.058	.106%	97.678%
62.0	21.094	2.042	1542.1	.099%	97.808%
63.0	19.702	1.925	1544.025	.093%	97.930%
64.0	18.408	1.814	1545.839	.088%	98.045%
65.0	17.550	1.744	1547.584	.084%	98.156%
66.0	16.931	1.696	1549.28	.082%	98.263%
67.0	16.305	1.646	1550.926	.079%	98.368%
68.0	15.652	1.591	1552.517	.077%	98.469%
69.0	15.166	1.553	1554.07	.075%	98.567%
70.0	14.653	1.510	1555.58	.073%	98.663%
71.0	14.112	1.463	1557.043	.071%	98.756%
72.0	13.683	1.427	1558.47	.069%	98.846%
73.0	13.233	1.388	1559.858	.067%	98.934%
74.0	12.818	1.351	1561.209	.065%	99.020%
75.0	12.375	1.311	1562.52	.063%	99.103%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.960	1.273	1563.792	.061%	99.184%
77.0	11.552	1.234	1565.027	.060%	99.262%
78.0	11.145	1.195	1566.222	.058%	99.338%
79.0	10.645	1.146	1567.368	.055%	99.410%
80.0	10.188	1.100	1568.468	.053%	99.480%
81.0	9.773	1.059	1569.527	.051%	99.547%
82.0	9.309	1.011	1570.538	.049%	99.612%
83.0	8.810	0.959	1571.497	.046%	99.672%
84.0	8.353	0.911	1572.408	.044%	99.730%
85.0	7.917	0.865	1573.273	.042%	99.785%
86.0	7.467	0.817	1574.09	.039%	99.837%
87.0	7.059	0.773	1574.863	.037%	99.886%
88.0	6.715	0.736	1575.599	.036%	99.932%
89.0	6.497	0.712	1576.311	.034%	99.978%
90.0	6.420	0.352	1576.663	.017%	100.000%

Zonal flux distribution table

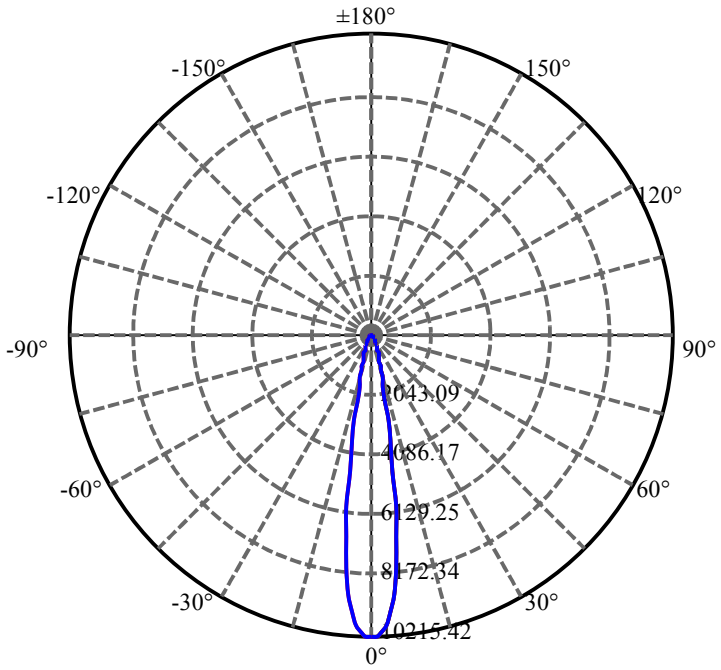
ZONAL LUMEN SUMMARY

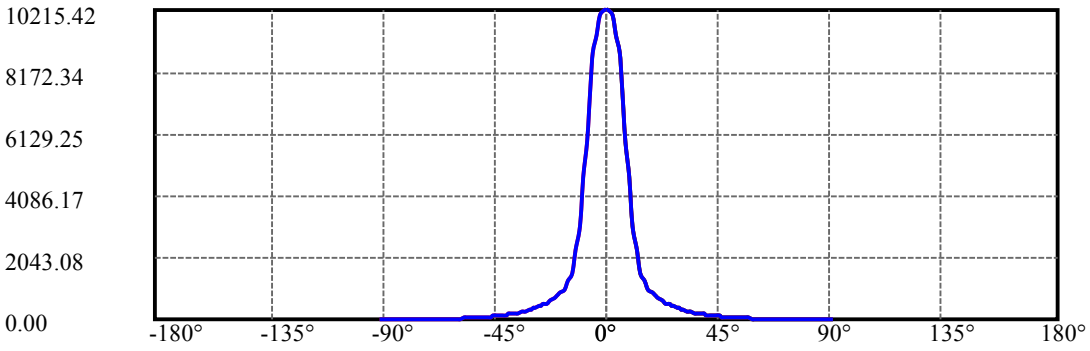
Zone	Lumens	%Lamp	%Fixt
0-30	1297.24	62.64%	82.28%
0-40	1430.79	69.09%	90.75%
0-60	1537.87	74.26%	97.54%
0-90	1576.31	76.11%	99.98%
0-120	1576.31	76.11%	99.98%
0-180	1576.66	76.13%	100.00%
60-90	40.80	1.97%	2.59%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.02	1261.33	60.90%	80.00%

ZONAL LUMEN SUMMARY

0-10	695.87
10-20	381.30
20-30	220.07
30-40	133.55
40-50	73.05
50-60	34.04
60-70	17.71
70-80	12.89
80-90	7.84
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):

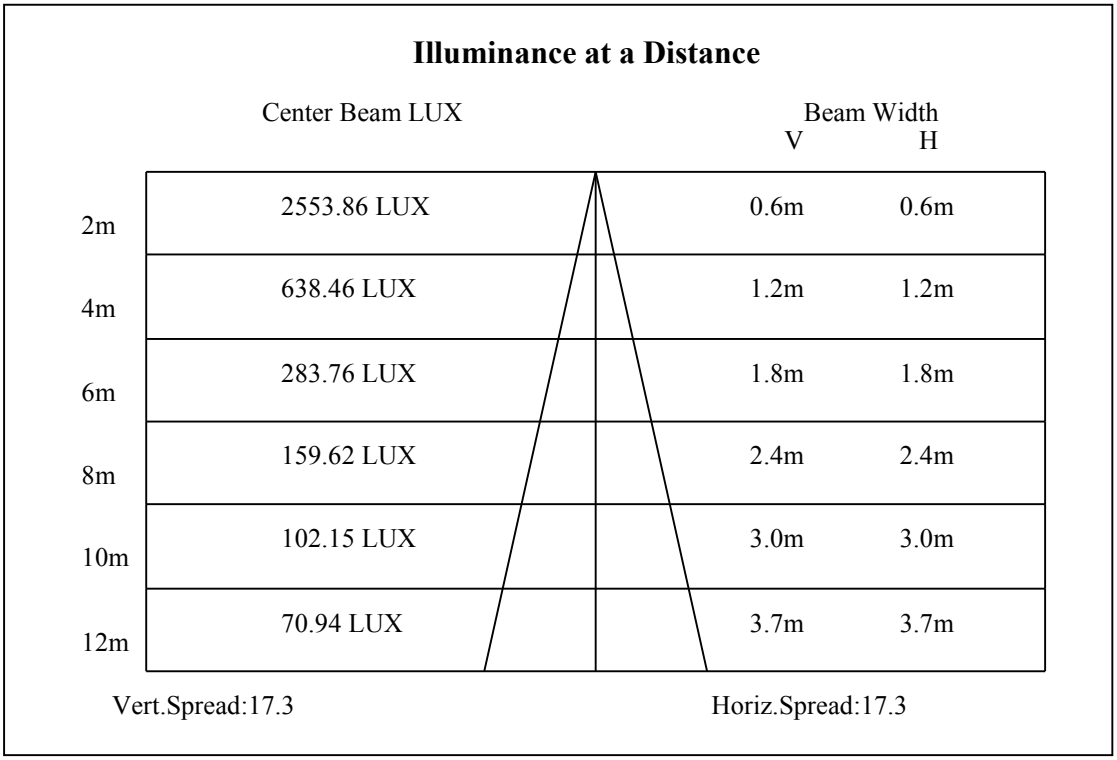
C0/C180:

C90/C270:

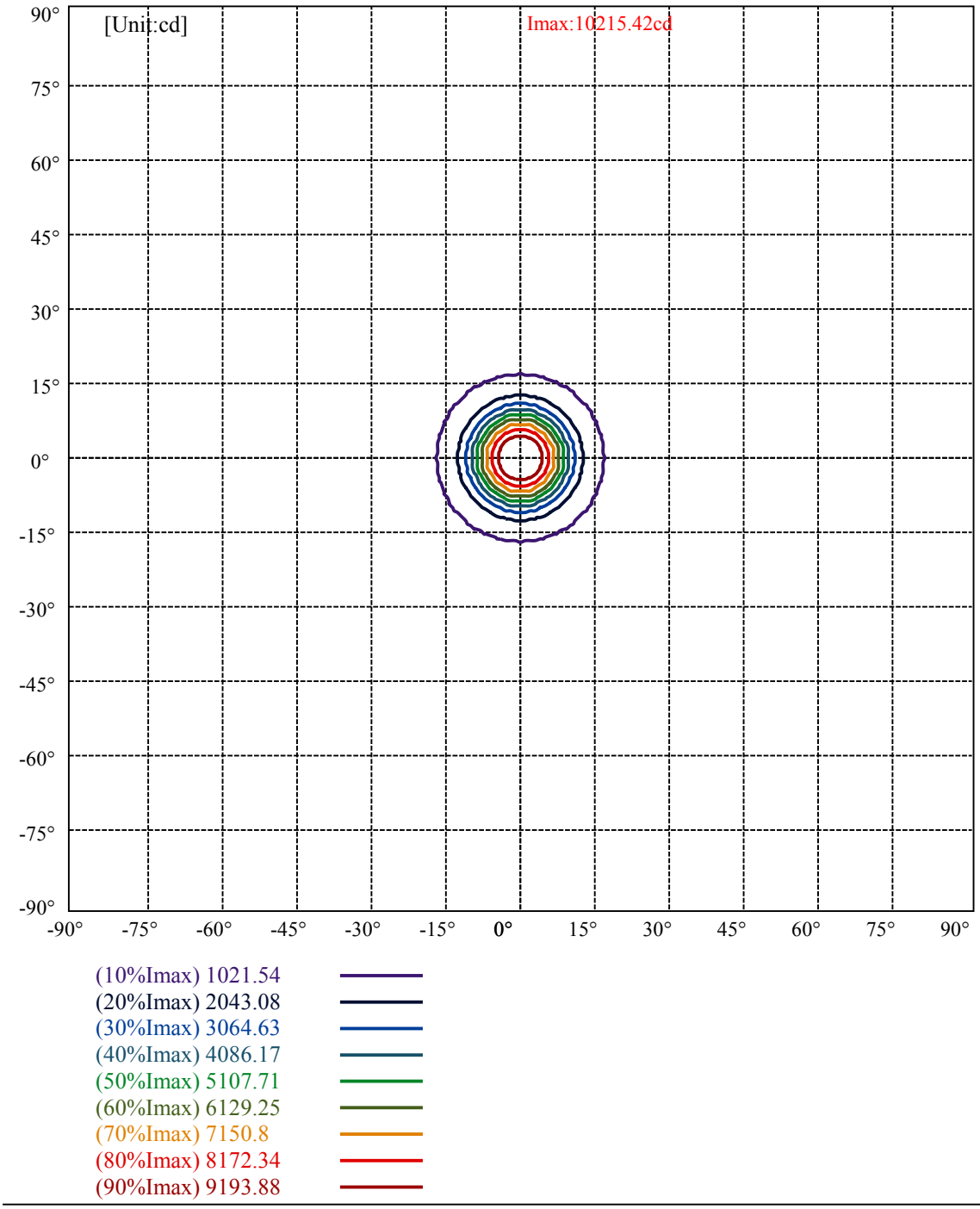
Field angle(10%Imax):C0/180Left:16.6 Right:16.6
:C90/270Left:16.6 Right:16.6

Beam Angle(50%Imax):C0/180Left:8.7 Right:8.7
:C90/270Left:8.7 Right:8.7

Lux distance Curve



ISO-Intensity(V-H)

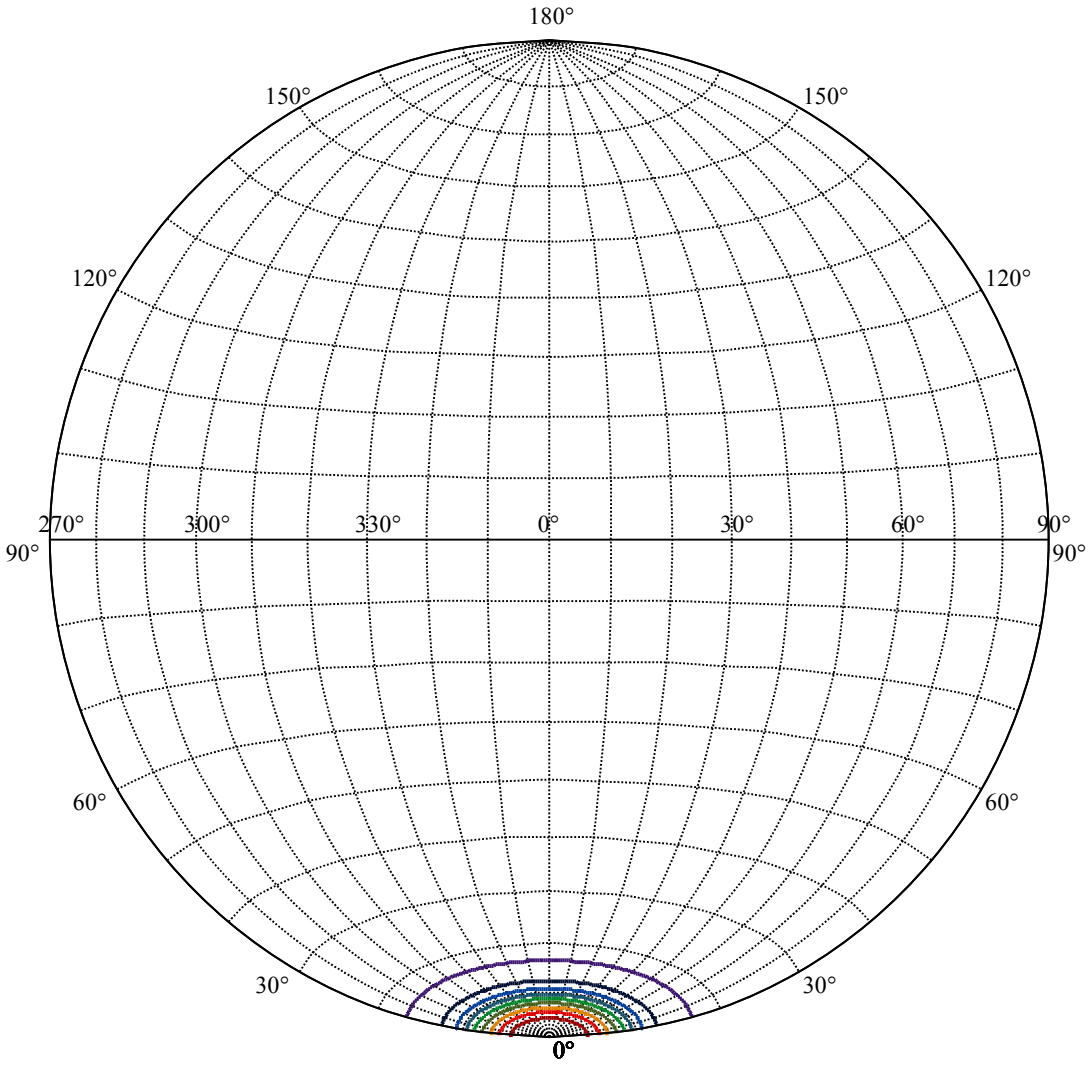


Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:10215.42

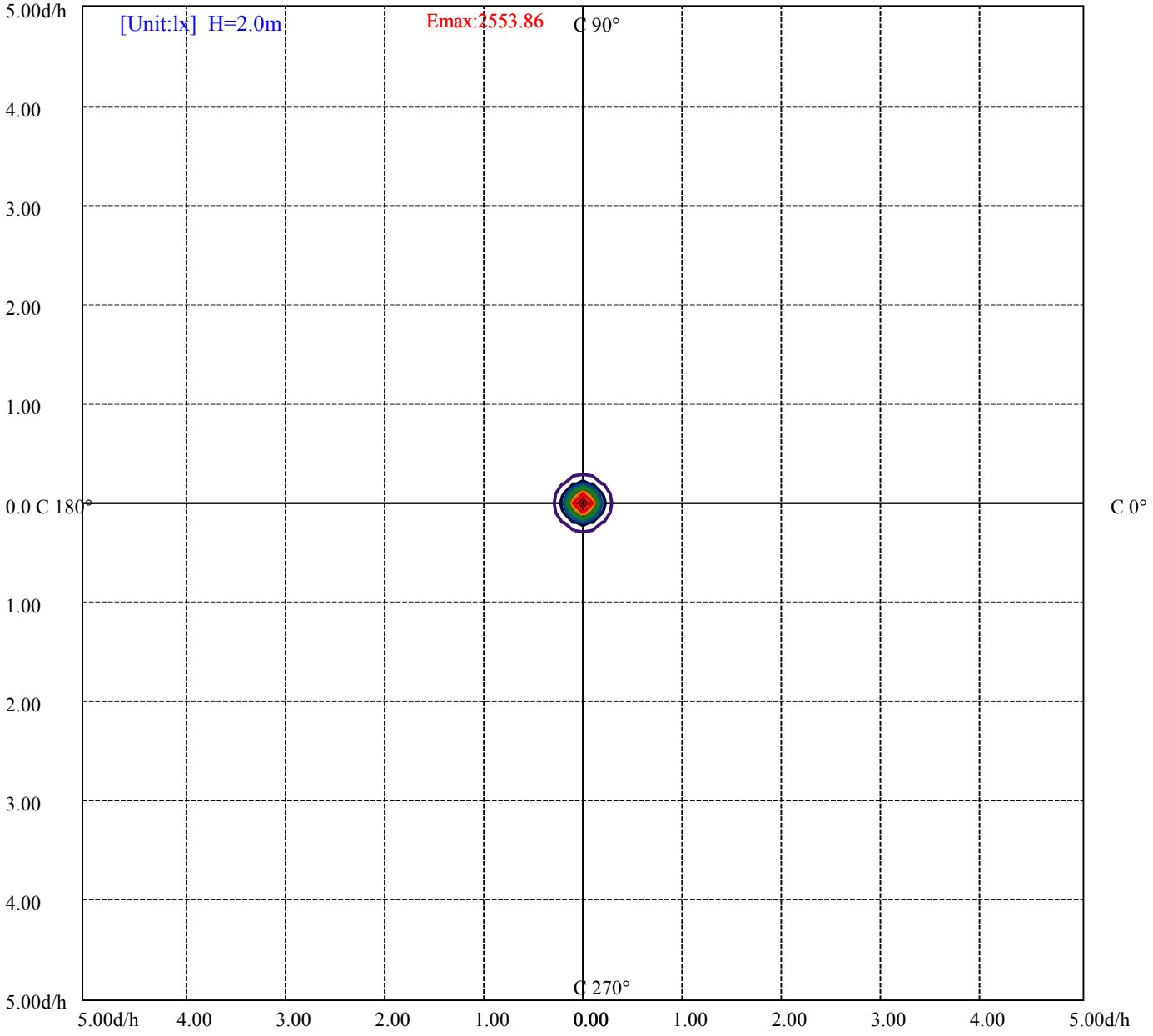
(10%Imax) 1021.54
(20%Imax) 2043.08
(30%Imax) 3064.63
(40%Imax) 4086.17
(50%Imax) 5107.71
(60%Imax) 6129.25
(70%Imax) 7150.8
(80%Imax) 8172.34
(90%Imax) 9193.88

Equipment: GMS1980
Temperature(°C): 10.0

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

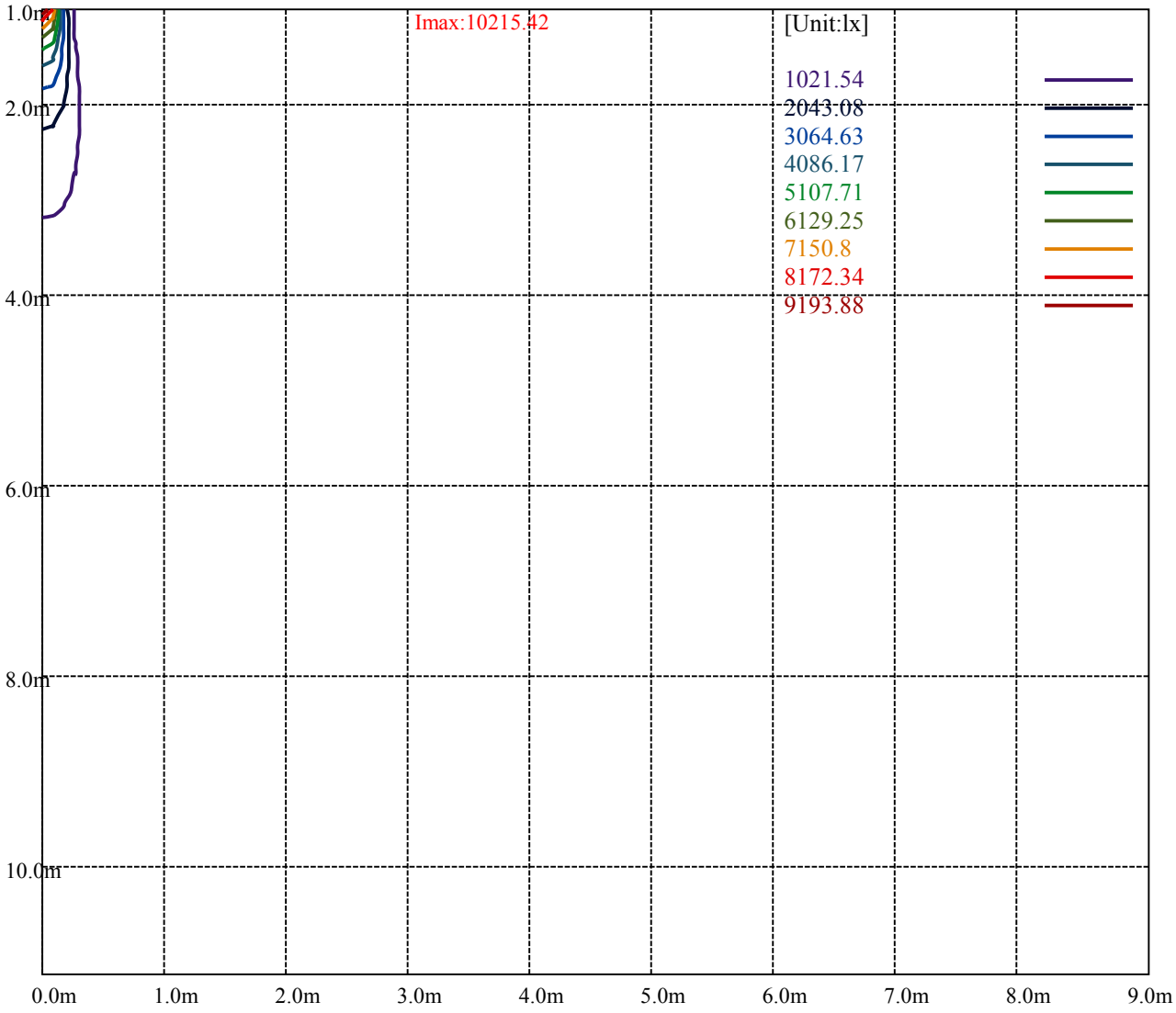
Operator: NT07
Distance(m): 7.50

ISO illuminance diagram



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

NATA 2-1258-N

Luminance Limitting Curve(no luminous side)

Luminance Table

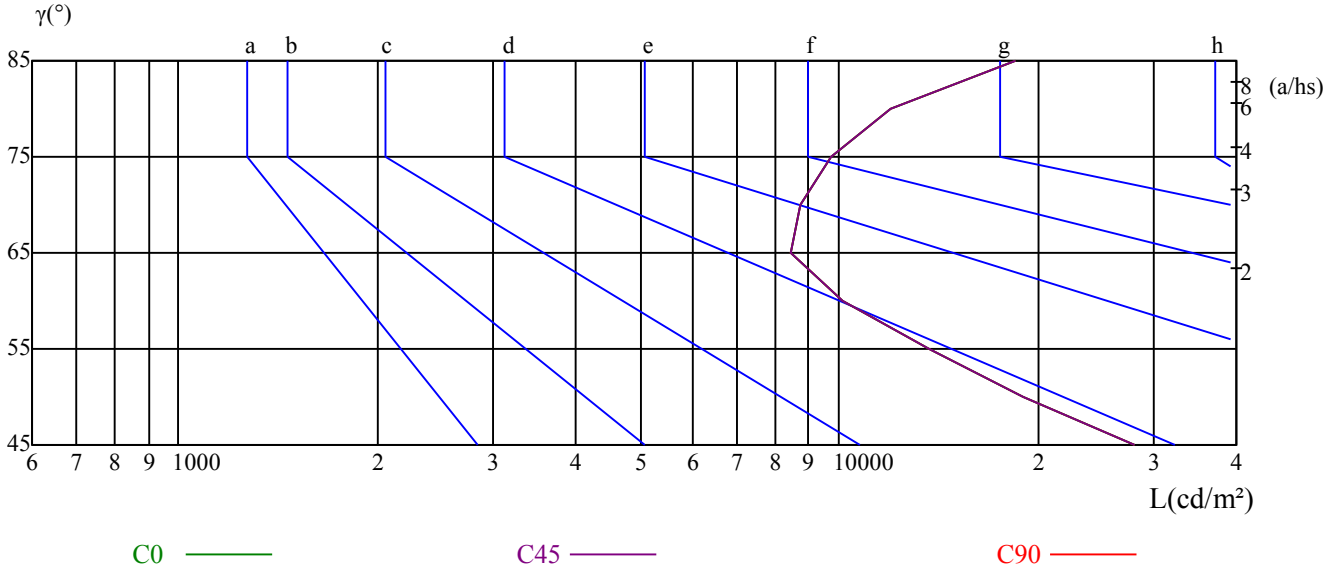
γ	45	50	55	60	65	70	75	80	85
C0	27988	19038	13700	10142	8475	8743	9758	11974	18539
C45	27988	19038	13700	10142	8475	8743	9758	11974	18539
C90	27988	19038	13700	10142	8475	8743	9758	11974	18539

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8475	8475	8475	9758	9758	9758	18539	18539	18539

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): 10.0

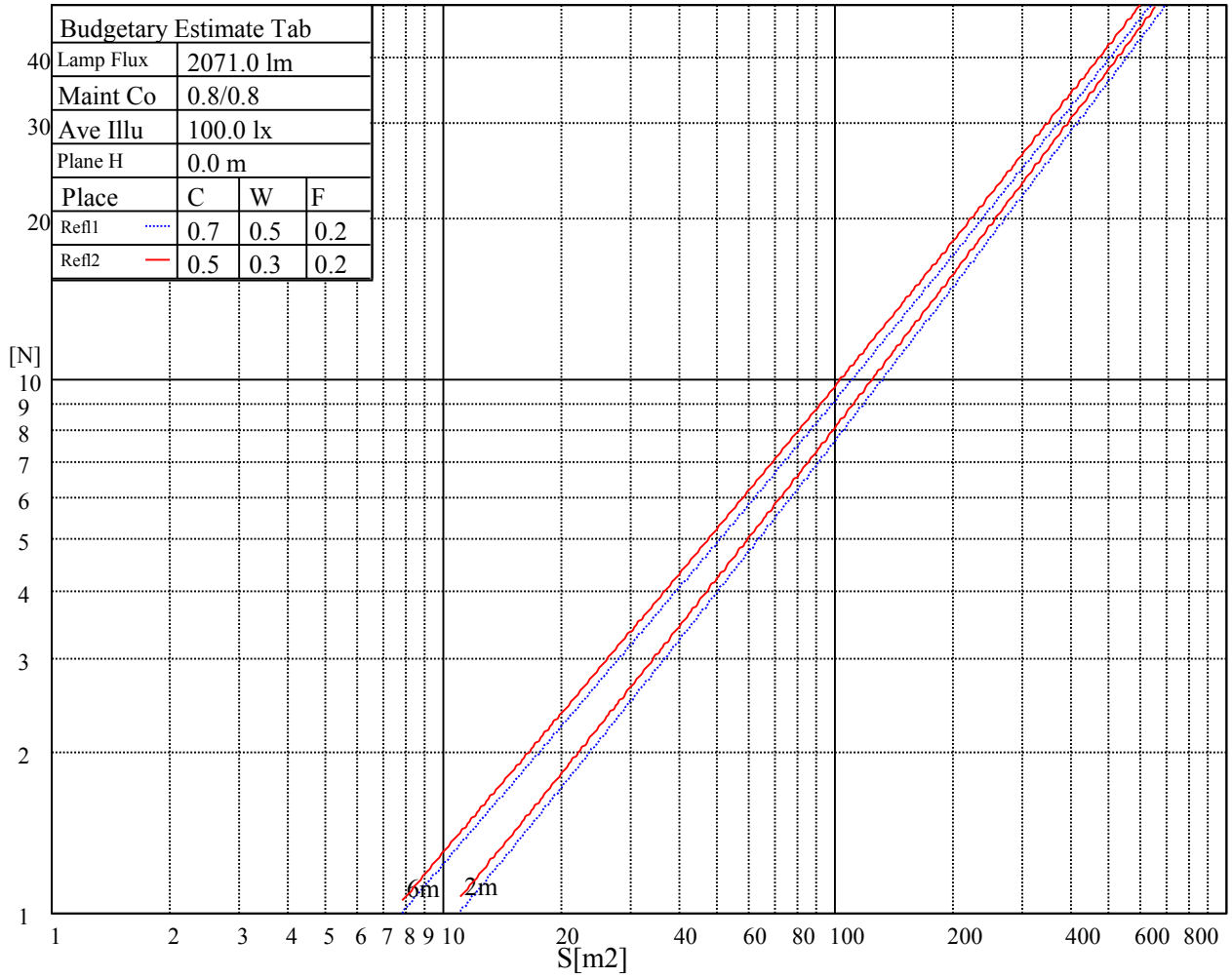
Date: 2019/1/26
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

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	12.63	13.64	12.99	13.95	14.26	12.66	13.67	13.03	13.98	14.30
	3H	13.78	14.67	14.16	15.00	15.37	13.81	14.70	14.19	15.03	15.40
	4H	14.47	15.30	14.88	15.65	16.04	14.49	15.31	14.90	15.67	16.06
	6H	15.27	16.02	15.69	16.40	16.79	15.28	16.04	15.70	16.41	16.81
	8H	15.70	16.41	16.13	16.80	17.21	15.72	16.43	16.16	16.82	17.23
	12H	16.45	17.12	16.88	17.51	17.94	16.48	17.15	16.91	17.54	17.97
4H	2H	12.83	13.65	13.23	14.00	14.39	12.85	13.68	13.26	14.03	14.42
	3H	14.30	14.97	14.71	15.38	15.78	14.32	14.99	14.73	15.40	15.81
	4H	15.19	15.80	15.63	16.22	16.67	15.21	15.81	15.65	16.23	16.68
	6H	16.11	16.62	16.58	17.07	17.55	16.12	16.64	16.59	17.09	17.56
	8H	16.67	17.15	17.15	17.61	18.08	16.69	17.18	17.17	17.63	18.10
	12H	17.49	17.90	17.98	18.39	18.87	17.52	17.94	18.01	18.42	18.90
8H	4H	15.52	16.00	16.00	16.45	16.93	15.53	16.01	16.01	16.46	16.94
	6H	16.70	17.08	17.21	17.58	18.07	16.71	17.10	17.22	17.60	18.08
	8H	17.44	17.78	17.97	18.30	18.80	17.46	17.80	17.99	18.32	18.82
	12H	18.58	18.87	19.10	19.37	19.95	18.61	18.91	19.13	19.40	19.98
12H	4H	15.58	15.99	16.07	16.48	16.96	15.59	16.01	16.08	16.49	16.97
	6H	17.14	17.19	17.38	17.66	18.21	17.15	17.20	17.40	17.68	18.23
	8H	17.70	17.99	18.22	18.49	19.07	17.72	18.01	18.24	18.51	19.09

Variation with the observer position at spacings:		
S = 1.0H	1.5/-1.8	1.5/-1.8
S = 1.5H	2.5/-2.1	2.5/-2.1
S = 2.0H	3.8/-1.9	3.8/-1.9
Standard tables:	BK4	BK4
Uncorrected UGR	2.2	2.2

Budgetary Estimate Table

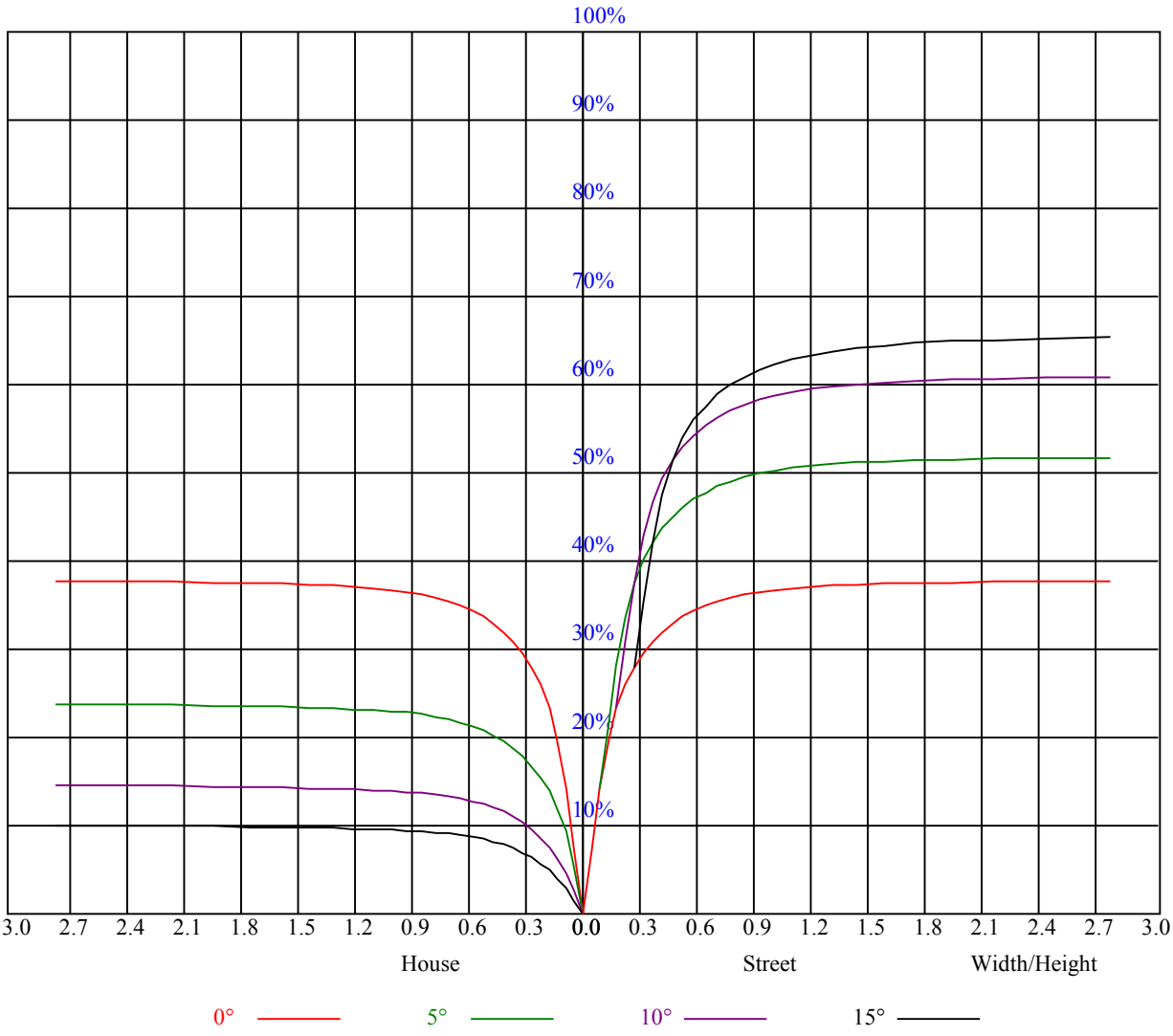


Equipment: GMS1980 Date: 2019/1/26 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.81	0.81	0.81	0.78	0.78	0.78	0.76
1	0.85	0.83	0.82	0.84	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.74	0.72
2	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.71	0.70	0.69
3	0.77	0.73	0.71	0.76	0.73	0.70	0.74	0.71	0.69	0.72	0.70	0.68	0.70	0.69	0.67	0.66
4	0.73	0.70	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.68	0.66	0.65	0.64
5	0.70	0.67	0.64	0.70	0.66	0.64	0.68	0.65	0.63	0.67	0.65	0.63	0.66	0.64	0.62	0.61
6	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.65	0.62	0.61	0.64	0.62	0.60	0.59
7	0.65	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.63	0.61	0.59	0.62	0.60	0.58	0.57
8	0.63	0.60	0.57	0.63	0.60	0.57	0.62	0.59	0.57	0.61	0.59	0.57	0.61	0.58	0.57	0.56
9	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.54
10	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.58	0.56	0.54	0.58	0.56	0.54	0.53

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	10190.25	10221.75	10211.63	10064.81	9831.38	9440.44	8683.88	7878.94	6928.88
45.0	10225.13	10230.19	10125.00	9983.25	9678.38	9179.44	8305.88	7407.00	6379.88
90.0	10228.50	10164.38	9974.25	9718.88	9185.06	8514.56	7538.06	6379.88	5295.38
135.0	10217.81	10200.94	10056.38	9775.69	9356.06	8739.56	7711.31	6721.31	5643.56
180.0	10190.25	10097.44	9933.19	9564.75	8865.00	8187.75	7135.31	5810.06	4870.69
225.0	10225.13	10162.69	10072.13	9771.75	9234.00	8543.81	7561.13	6422.06	5343.19
270.0	10228.50	10206.00	10161.56	10000.13	9650.81	9122.06	8201.25	7286.63	6250.50
315.0	10217.81	10208.81	10117.69	9923.06	9561.38	9011.25	8178.19	7148.81	6116.06
360.0	10190.25	10221.75	10211.63	10064.81	9831.38	9440.44	8683.88	7878.94	6928.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5645.81	4630.50	3717.56	2871.56	2228.63	1815.75	1490.63	1281.94	1109.81
45.0	5185.13	4059.00	3216.38	2469.94	1938.38	1618.88	1370.81	1208.81	1062.00
90.0	4257.56	3159.56	2484.00	1980.00	1554.19	1333.13	1119.94	1034.33	930.09
135.0	4358.81	3461.06	2727.00	2109.94	1684.13	1428.75	1229.63	1094.63	969.19
180.0	3886.31	2801.81	2298.94	1863.00	1519.88	1284.75	1110.83	1005.47	884.42
225.0	4330.13	3248.44	2567.81	2059.88	1649.25	1368.56	1108.97	1014.08	911.53
270.0	4932.56	3961.13	3125.81	2386.13	1852.31	1513.13	1245.38	1080.56	949.50
315.0	5063.63	3860.44	3057.19	2417.63	1844.44	1526.06	1232.44	1103.74	965.42
360.0	5645.81	4630.50	3717.56	2871.56	2228.63	1815.75	1490.63	1281.94	1109.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	977.63	884.81	800.44	729.00	673.31	623.25	567.56	527.63	489.38
45.0	948.94	862.31	781.31	708.19	653.63	606.38	552.94	513.00	475.88
90.0	855.00	783.11	727.09	669.04	616.11	573.24	526.78	483.64	448.09
135.0	873.56	798.19	729.00	667.13	616.50	573.19	523.69	484.88	450.00
180.0	806.79	741.26	676.46	619.88	574.54	528.69	486.28	451.41	414.17
225.0	829.13	744.24	692.44	633.71	575.16	537.58	493.99	450.06	421.65
270.0	856.69	789.19	725.06	667.13	618.75	573.19	523.13	484.88	448.31
315.0	873.62	797.79	726.53	665.72	616.95	566.61	520.65	483.86	444.94
360.0	977.63	884.81	800.44	729.00	673.31	623.25	567.56	527.63	489.38

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	449.44	411.75	380.25	347.06	317.81	294.19	289.13	249.47	229.67
45.0	443.25	403.88	374.63	346.50	313.88	290.81	285.75	246.32	228.04
90.0	414.79	376.14	347.63	321.41	297.23	270.28	250.26	232.59	213.30
135.0	413.44	379.13	349.31	318.94	291.38	285.19	246.71	226.97	209.25
180.0	382.89	348.92	318.32	293.79	271.29	245.76	227.76	211.33	193.28
225.0	390.83	352.01	329.68	305.04	279.51	256.61	237.99	219.09	202.28
270.0	414.56	376.31	348.19	319.50	293.06	285.19	250.71	230.40	212.74
315.0	412.20	378.11	347.34	320.96	296.72	268.76	248.91	230.85	210.88
360.0	449.44	411.75	380.25	347.06	317.81	294.19	289.13	249.47	229.67

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	211.95	197.49	182.81	169.71	159.30	149.23	137.14	125.21	115.71
45.0	215.61	198.06	185.74	173.31	159.02	146.81	135.45	122.57	112.78
90.0	199.46	187.20	174.94	163.63	151.48	137.81	127.41	115.88	105.24
135.0	194.34	181.52	170.55	159.02	146.31	134.83	123.13	112.50	103.39
180.0	180.34	169.09	157.61	146.64	134.94	123.53	114.41	104.63	95.34
225.0	188.89	175.56	164.42	152.72	139.39	128.64	118.91	107.94	99.06
270.0	198.23	184.11	173.03	161.83	151.59	140.23	127.86	116.04	107.04
315.0	196.59	183.43	170.78	159.08	149.68	137.42	126.51	115.26	105.08
360.0	211.95	197.49	182.81	169.71	159.30	149.23	137.14	125.21	115.71

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	105.86	96.58	88.65	80.21	73.29	66.26	60.13	55.24	50.34
45.0	103.50	92.76	84.83	77.57	69.53	63.68	58.44	53.16	48.38
90.0	96.36	87.19	78.81	72.11	65.93	59.34	54.56	50.18	45.23
135.0	95.01	85.22	78.08	71.44	64.74	59.01	54.34	49.56	45.23
180.0	87.81	79.99	72.62	66.66	61.37	55.46	51.13	46.97	42.75
225.0	91.01	81.56	74.64	68.40	62.72	56.48	52.03	47.98	43.82
270.0	99.56	88.37	80.78	74.59	65.93	60.24	55.86	50.34	46.01
315.0	96.69	87.58	79.03	72.28	66.21	59.23	54.51	50.18	45.79
360.0	105.86	96.58	88.65	80.21	73.29	66.26	60.13	55.24	50.34

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	45.90	42.30	38.93	34.99	32.12	29.70	26.89	24.81	22.95
45.0	44.55	40.56	37.18	33.69	30.77	28.41	25.99	23.79	21.99
90.0	41.63	38.14	34.54	31.44	29.03	26.55	24.53	22.44	20.64
135.0	41.57	37.63	34.48	31.39	28.69	26.49	24.24	22.22	20.64
180.0	38.81	35.55	32.29	29.48	27.23	24.92	23.12	21.21	19.63
225.0	40.05	36.73	33.30	30.26	27.96	25.59	23.68	21.83	20.14
270.0	42.92	38.70	35.55	32.74	29.70	27.51	25.54	23.29	21.66
315.0	41.79	38.42	34.82	31.61	29.14	26.72	24.81	22.84	21.09
360.0	45.90	42.30	38.93	34.99	32.12	29.70	26.89	24.81	22.95

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.32	19.52	18.34	17.61	16.88	16.20	15.69	15.13	14.57
45.0	20.42	18.79	17.94	17.27	16.59	15.92	15.41	14.85	14.29
90.0	19.24	18.17	17.38	16.76	16.26	15.58	15.08	14.57	14.06
135.0	19.41	18.06	17.38	16.88	16.14	15.58	15.13	14.57	14.06
180.0	18.45	17.66	16.93	16.37	15.86	15.19	14.74	14.29	13.78
225.0	18.90	18.00	17.16	16.59	15.98	15.36	14.85	14.40	13.84
270.0	20.14	18.62	17.78	17.10	16.43	15.81	15.30	14.79	14.23
315.0	19.74	18.45	17.49	16.88	16.31	15.58	15.13	14.63	14.06
360.0	21.32	19.52	18.34	17.61	16.88	16.20	15.69	15.13	14.57

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	14.06	13.61	13.22	12.83	12.43	12.04	11.70	11.19	10.80
45.0	13.89	13.44	13.05	12.60	12.09	11.76	11.36	10.80	10.35
90.0	13.61	13.22	12.77	12.32	11.93	11.48	11.03	10.58	10.07
135.0	13.73	13.22	12.83	12.38	11.87	11.53	11.03	10.52	10.07
180.0	13.28	12.88	12.38	11.93	11.59	11.08	10.69	10.18	9.73
225.0	13.39	12.94	12.54	12.15	11.76	11.31	10.91	10.41	9.96
270.0	13.89	13.33	12.99	12.54	12.09	11.76	11.36	10.86	10.35
315.0	13.61	13.22	12.77	12.26	11.93	11.48	11.08	10.63	10.18
360.0	14.06	13.61	13.22	12.83	12.43	12.04	11.70	11.19	10.80

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.35	9.84	9.39	8.83	8.38	7.93	7.59	6.98	6.69
45.0	9.96	9.45	9.00	8.55	8.10	7.71	7.14	6.81	6.58
90.0	9.62	9.17	8.66	8.21	7.76	7.26	6.86	6.64	6.36
135.0	9.68	9.23	8.66	8.27	7.88	7.31	6.92	6.64	6.41
180.0	9.28	8.94	8.44	7.99	7.54	7.09	6.69	6.47	6.41
225.0	9.51	9.06	8.55	8.10	7.71	7.31	6.86	6.58	6.41
270.0	10.01	9.45	8.94	8.44	7.99	7.54	7.14	6.81	6.53
315.0	9.79	9.34	8.83	8.44	7.99	7.59	7.26	6.81	6.58
360.0	10.35	9.84	9.39	8.83	8.38	7.93	7.59	6.98	6.69

Intensity data(cd)

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