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

NATA

LumCAT: 1562-E
Luminaire: 92.70.046.00
Report No: NATA0100
Test No: GC2019010217
LampCAT: CREE CXA1512
Lamp flux(lm): 1552.0
Number of Lamps: 1
Length(mm): 45
Phm Type: C

Voltage(V): 35.5000
Current(A): 0.3000
Power (W): 10.6500
PF: 0.0000
Ballast type: DC
Width(mm): 45
Height(mm): 0

Photometric Results

Lumens(lm): 1294.63
Efficiency(%): 83.42%
Lumens(lm)/Power(W): 121.69
Central intensity(cd): 5920.313
Maximum intensity(cd): 5920.313
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=24.5
[C90/270]Total=24.5
Field angle(10%Imax): [C0/180]Total=47.4
[C90/270]Total=47.4
Maximum s/h(1/2): C0_180=0.41 C90_270=0.41
Maximum s/h(1/4): C0_180=0.43 C90_270=0.43
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 83.50%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.295%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5920.313	1.416	1.416	.091%	.109%
1.0	5881.711	11.257	12.673	.725%	.979%
2.0	5769.352	22.080	34.753	1.423%	2.684%
3.0	5591.531	32.091	66.844	2.068%	5.163%
4.0	5377.781	41.138	107.982	2.651%	8.341%
5.0	5138.578	49.112	157.094	3.164%	12.134%
6.0	4853.320	55.632	212.726	3.585%	16.431%
7.0	4557.797	60.912	273.638	3.925%	21.136%
8.0	4268.250	65.141	338.779	4.197%	26.168%
9.0	3941.508	67.616	406.395	4.357%	31.391%
10.0	3623.836	69.007	475.401	4.446%	36.721%
11.0	3324.727	69.568	544.969	4.482%	42.095%
12.0	3030.047	69.084	614.053	4.451%	47.431%
13.0	2730.445	67.356	681.409	4.340%	52.633%
14.0	2454.258	65.110	746.519	4.195%	57.663%
15.0	2192.555	62.230	808.748	4.010%	62.469%
16.0	1934.578	58.476	867.224	3.768%	66.986%
17.0	1690.242	54.192	921.416	3.492%	71.172%
18.0	1445.393	48.980	970.396	3.156%	74.956%
19.0	1257.476	44.895	1015.291	2.893%	78.423%
20.0	1080.548	40.527	1055.818	2.611%	81.554%
21.0	956.742	37.599	1093.417	2.423%	84.458%
22.0	814.739	33.469	1126.886	2.157%	87.043%
23.0	685.821	29.386	1156.272	1.893%	89.313%
24.0	553.437	24.685	1180.957	1.591%	91.220%
25.0	424.624	19.679	1200.637	1.268%	92.740%
26.0	328.570	15.795	1216.432	1.018%	93.960%
27.0	234.253	11.662	1228.094	.751%	94.861%
28.0	152.135	7.832	1235.926	.505%	95.466%
29.0	91.294	4.854	1240.78	.313%	95.841%
30.0	59.562	3.266	1244.046	.210%	96.093%
31.0	40.915	2.311	1246.356	.149%	96.271%
32.0	32.077	1.864	1248.221	.120%	96.415%
33.0	26.353	1.574	1249.794	.101%	96.537%
34.0	22.423	1.375	1251.169	.089%	96.643%
35.0	20.250	1.274	1252.443	.082%	96.741%
36.0	18.619	1.200	1253.643	.077%	96.834%
37.0	17.241	1.138	1254.781	.073%	96.922%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	16.088	1.086	1255.867	.070%	97.006%
39.0	15.061	1.039	1256.907	.067%	97.086%
40.0	14.161	0.998	1257.905	.064%	97.163%
41.0	13.416	0.965	1258.87	.062%	97.238%
42.0	12.755	0.936	1259.806	.060%	97.310%
43.0	12.080	0.903	1260.709	.058%	97.380%
44.0	11.559	0.881	1261.59	.057%	97.448%
45.0	11.102	0.861	1262.451	.055%	97.514%
46.0	10.603	0.836	1263.287	.054%	97.579%
47.0	10.238	0.821	1264.108	.053%	97.642%
48.0	9.914	0.808	1264.916	.052%	97.705%
49.0	9.584	0.793	1265.709	.051%	97.766%
50.0	9.281	0.780	1266.489	.050%	97.826%
51.0	9.049	0.771	1267.26	.050%	97.886%
52.0	8.803	0.761	1268.021	.049%	97.945%
53.0	8.571	0.751	1268.772	.048%	98.003%
54.0	8.409	0.746	1269.518	.048%	98.060%
55.0	8.241	0.740	1270.258	.048%	98.117%
56.0	8.100	0.736	1270.994	.047%	98.174%
57.0	7.952	0.731	1271.726	.047%	98.231%
58.0	7.819	0.727	1272.453	.047%	98.287%
59.0	7.720	0.726	1273.178	.047%	98.343%
60.0	7.622	0.724	1273.902	.047%	98.399%
61.0	7.523	0.722	1274.624	.046%	98.455%
62.0	7.432	0.720	1275.343	.046%	98.510%
63.0	7.348	0.718	1276.061	.046%	98.566%
64.0	7.298	0.719	1276.781	.046%	98.621%
65.0	7.221	0.718	1277.498	.046%	98.677%
66.0	7.151	0.716	1278.215	.046%	98.732%
67.0	7.102	0.717	1278.932	.046%	98.787%
68.0	7.045	0.716	1279.648	.046%	98.843%
69.0	6.996	0.716	1280.364	.046%	98.898%
70.0	6.961	0.717	1281.082	.046%	98.954%
71.0	6.912	0.717	1281.798	.046%	99.009%
72.0	6.870	0.716	1282.515	.046%	99.064%
73.0	6.813	0.715	1283.229	.046%	99.119%
74.0	6.771	0.714	1283.943	.046%	99.175%
75.0	6.750	0.715	1284.658	.046%	99.230%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	6.694	0.712	1285.37	.046%	99.285%
77.0	6.666	0.712	1286.082	.046%	99.340%
78.0	6.602	0.708	1286.791	.046%	99.395%
79.0	6.574	0.708	1287.498	.046%	99.449%
80.0	6.560	0.708	1288.207	.046%	99.504%
81.0	6.546	0.709	1288.916	.046%	99.559%
82.0	6.518	0.708	1289.624	.046%	99.613%
83.0	6.427	0.699	1290.323	.045%	99.667%
84.0	6.391	0.697	1291.02	.045%	99.721%
85.0	6.377	0.697	1291.717	.045%	99.775%
86.0	6.377	0.698	1292.414	.045%	99.829%
87.0	5.885	0.644	1293.059	.042%	99.879%
88.0	5.766	0.632	1293.691	.041%	99.927%
89.0	5.716	0.627	1294.318	.040%	99.976%
90.0	5.688	0.312	1294.629	.020%	100.000%

Zonal flux distribution table

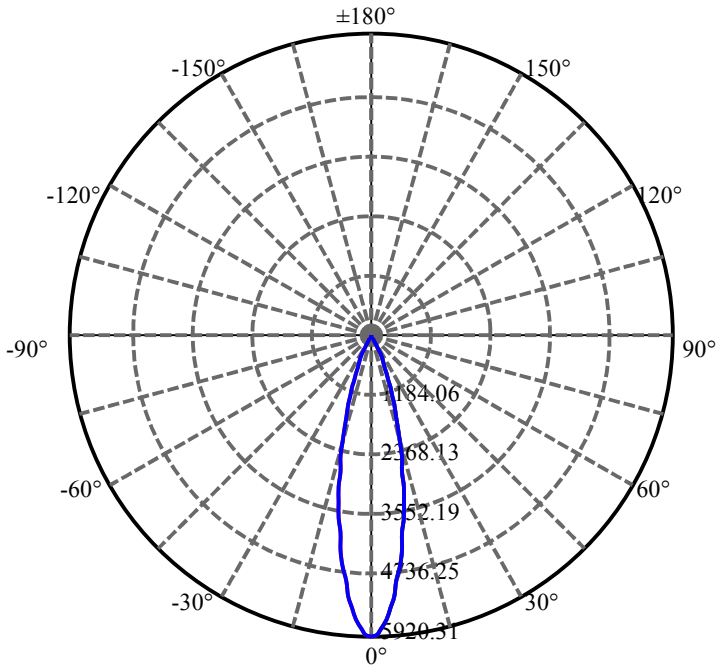
ZONAL LUMEN SUMMARY

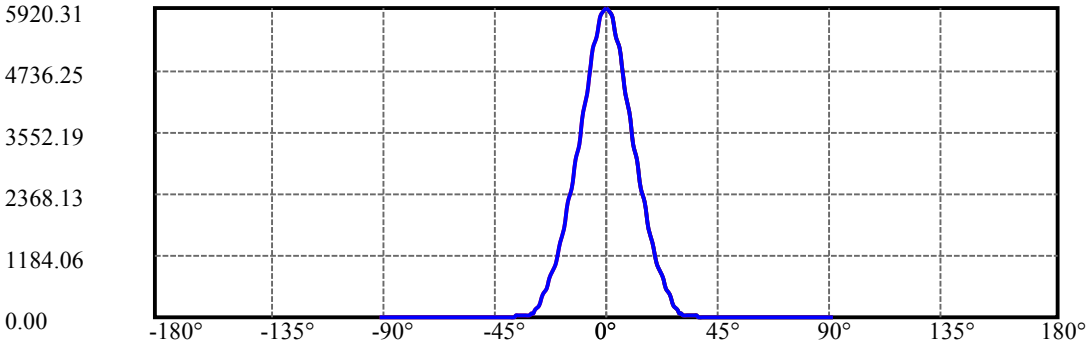
Zone	Lumens	%Lamp	%Fixt
0-30	1244.05	80.16%	96.09%
0-40	1257.90	81.05%	97.16%
0-60	1273.90	82.08%	98.40%
0-90	1294.32	83.40%	99.98%
0-120	1294.32	83.40%	99.98%
0-180	1294.63	83.42%	100.00%
60-90	21.14	1.36%	1.63%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-19.50	1035.70	66.73%	80.00%

ZONAL LUMEN SUMMARY

0-10	475.40
10-20	580.42
20-30	188.23
30-40	13.86
40-50	8.58
50-60	7.41
60-70	7.18
70-80	7.13
80-90	6.11
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:23.7 Right:23.7
:C90/270Left:23.7 Right:23.7

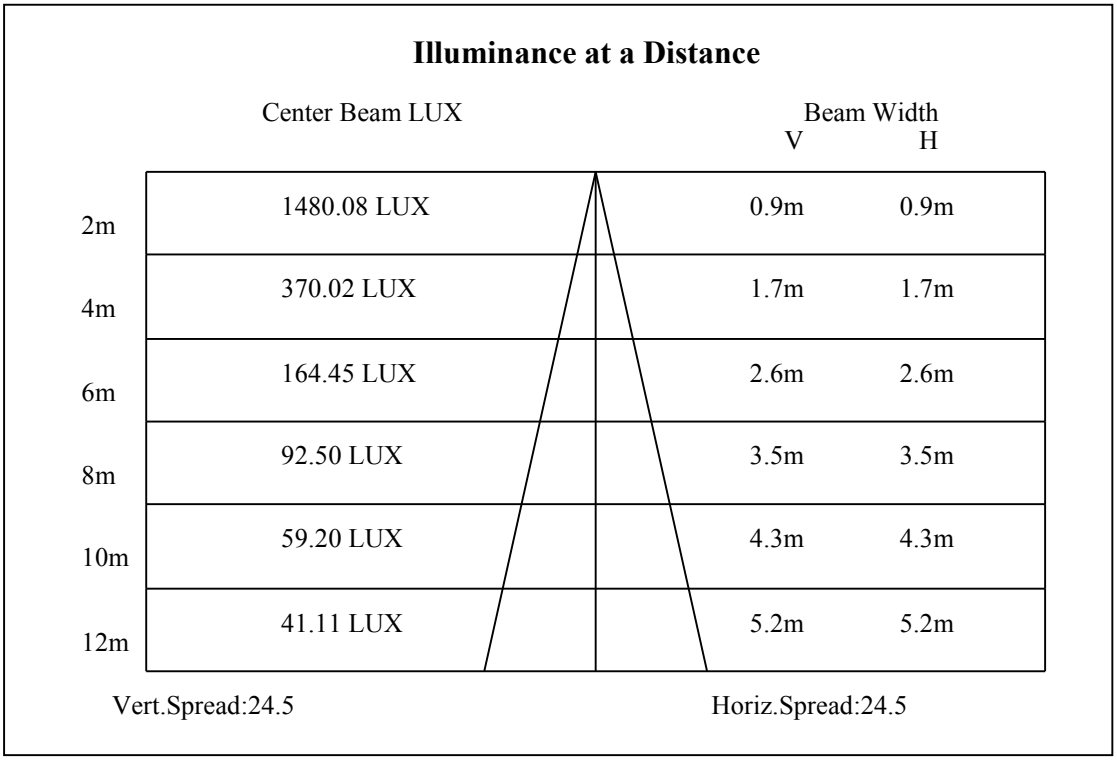
Beam Angle(50%Imax):C0/180Left:12.2 Right:12.2
:C90/270Left:12.2 Right:12.2

Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/2
Humidity(%): 65.0%

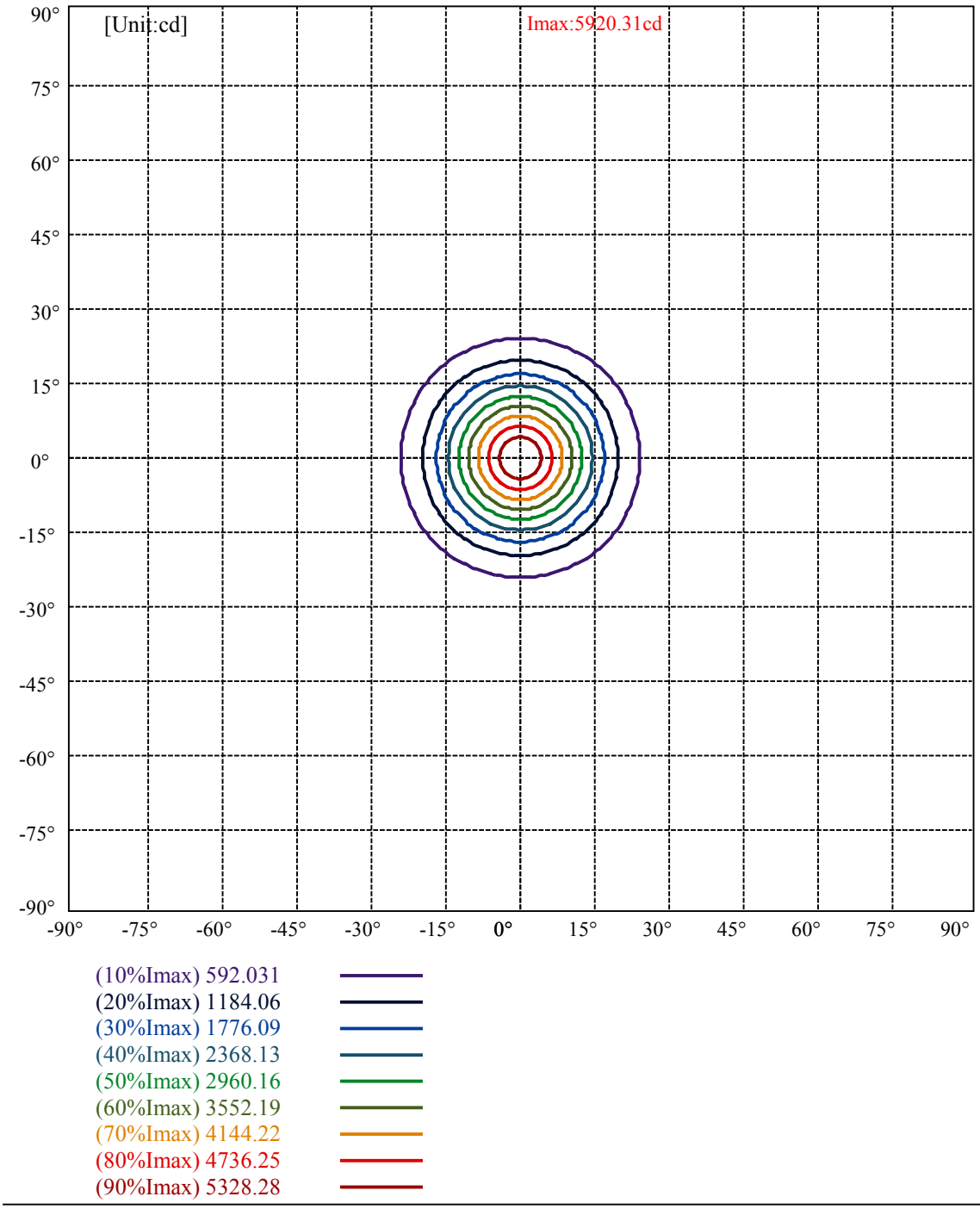
Operator: NT07
Distance(m): 7.50

Lux distance Curve



Equipment: GMS1980 Date: 2019/1/2 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO-Intensity(V-H)

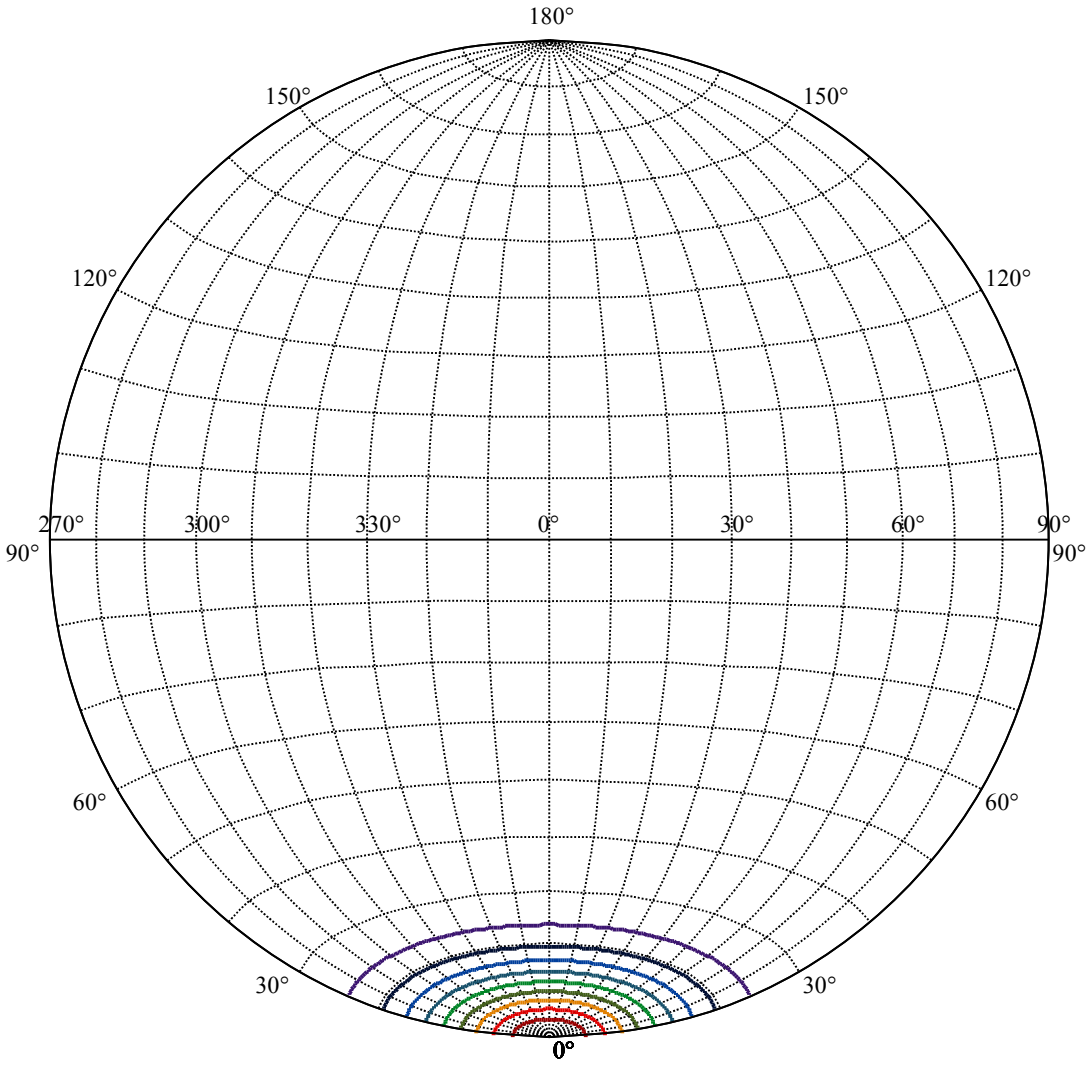


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/2
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



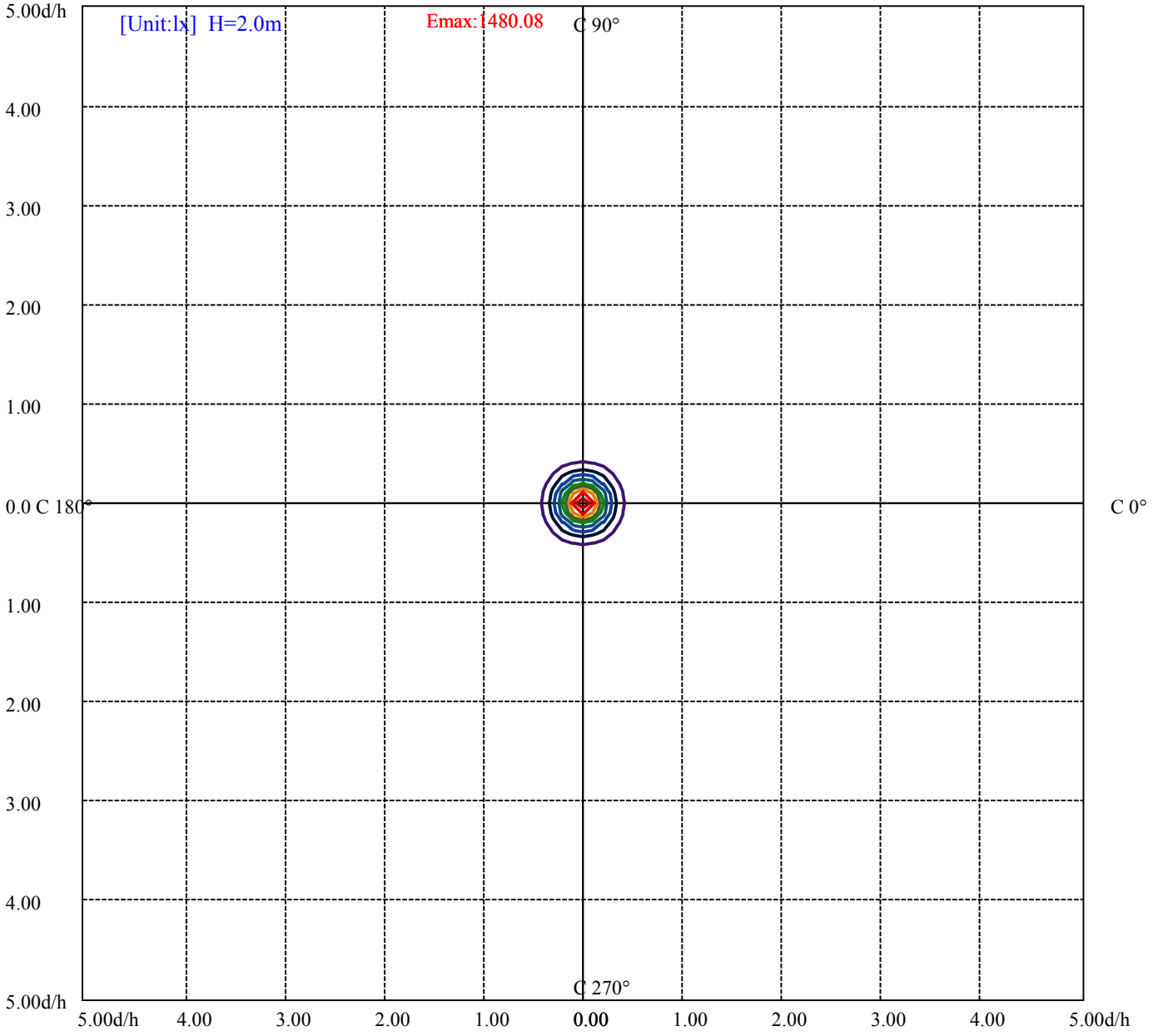
House [Unit:cd] Road

Imax:5920.31

(10%Imax) 592.031
(20%Imax) 1184.06
(30%Imax) 1776.09
(40%Imax) 2368.13
(50%Imax) 2960.16
(60%Imax) 3552.19
(70%Imax) 4144.22
(80%Imax) 4736.25
(90%Imax) 5328.28

Equipment: GMS1980 Date: 2019/1/2 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram

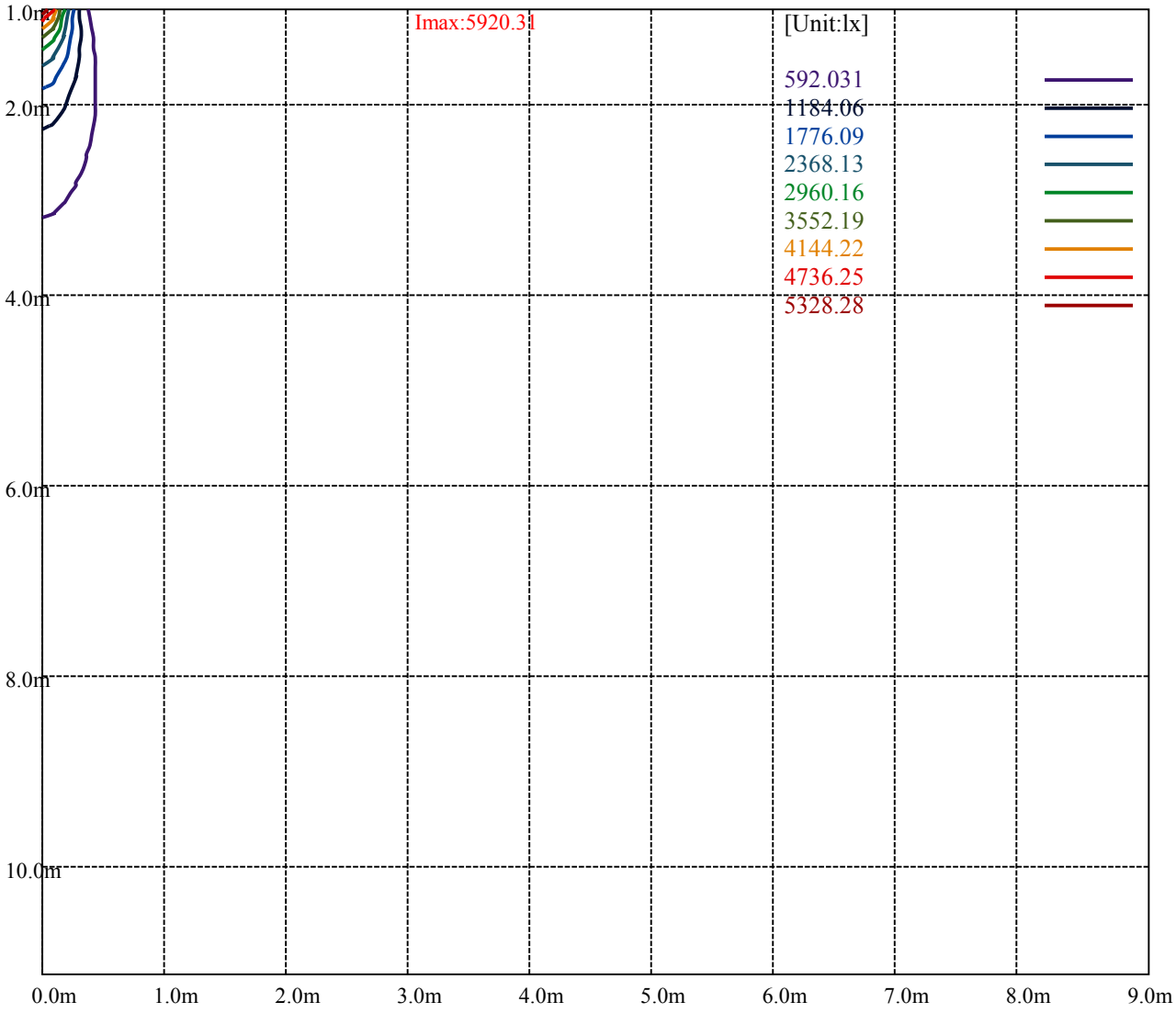


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/2
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/2
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

NATA 1562-E

Luminance Limitting Curve(no luminous side)

Luminance Table

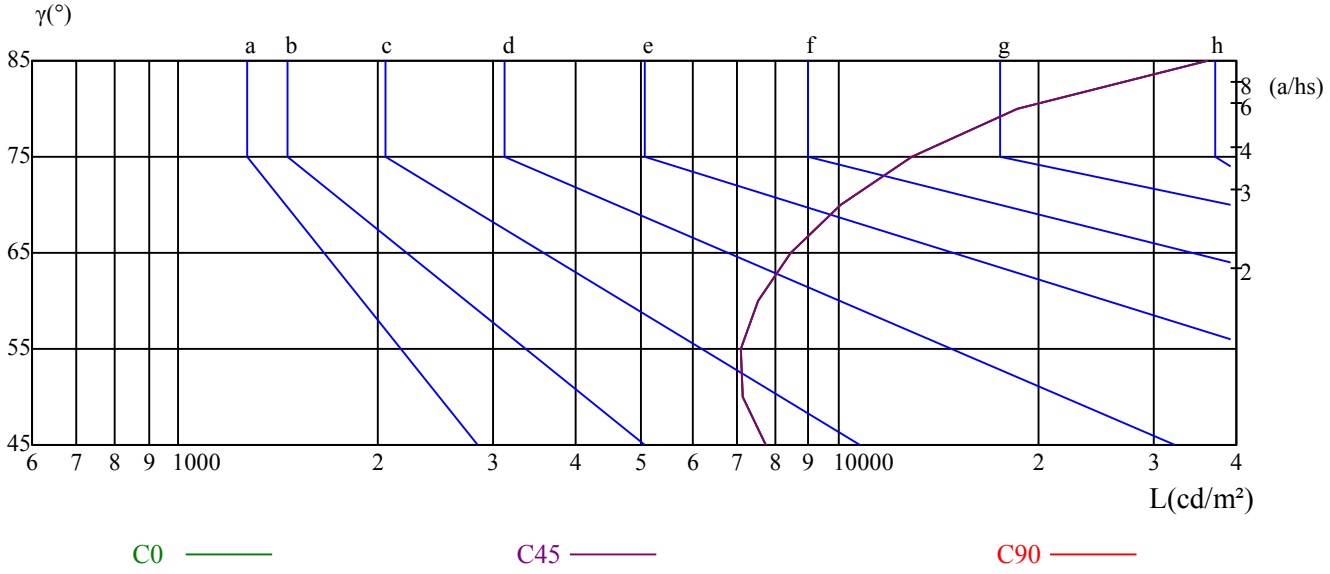
γ	45	50	55	60	65	70	75	80	85
C0	7754	7130	7095	7528	8438	10051	12879	18656	36134
C45	7754	7130	7095	7528	8438	10051	12879	18656	36134
C90	7754	7130	7095	7528	8438	10051	12879	18656	36134

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
8438	8438	8438	12879	12879	12879	36134	36134	36134

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: 2019/1/2
Humidity(%): 65.0%

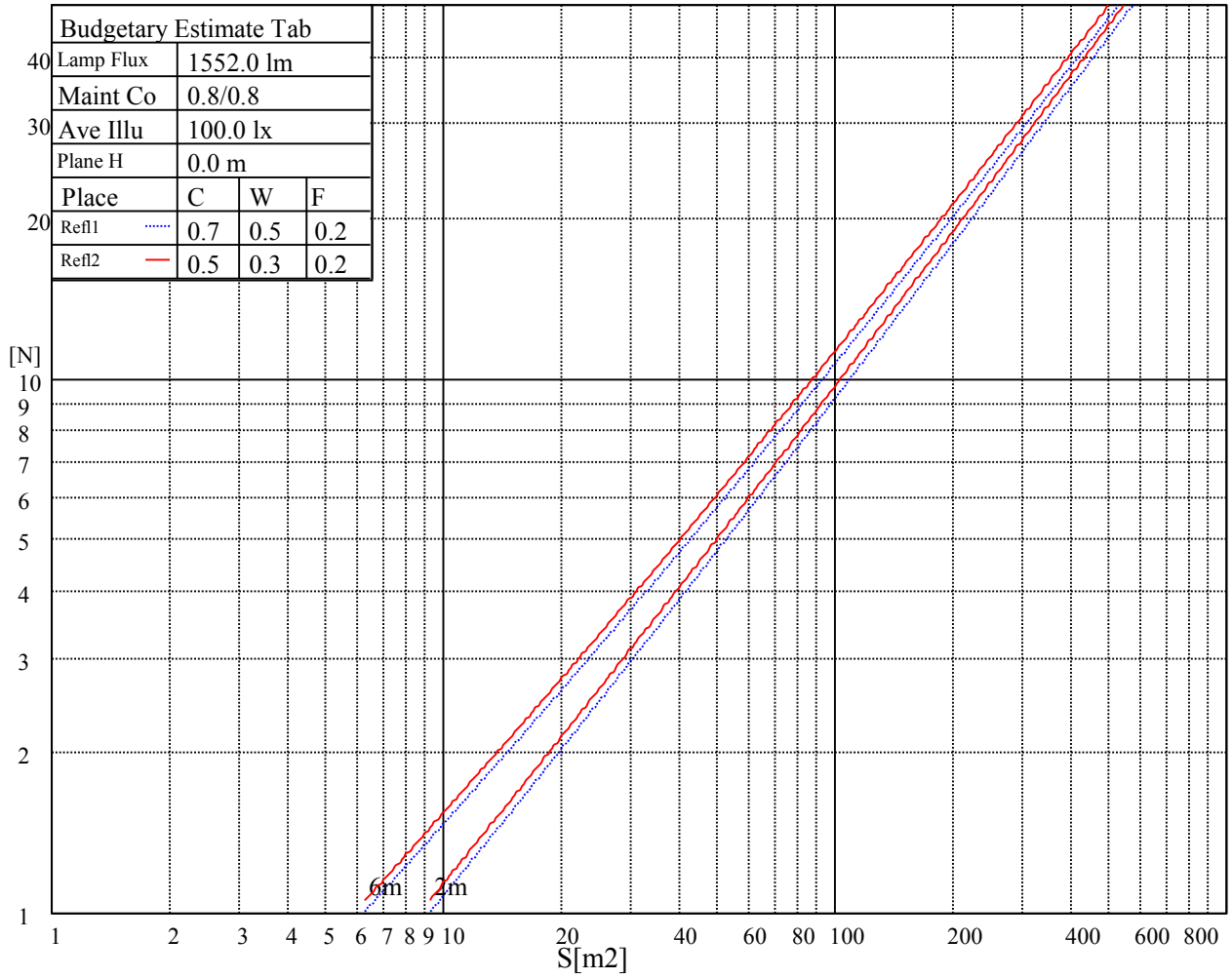
Operator: NT07
Distance(m): 7.50

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	7.75	8.67	8.12	8.98	9.30	7.60	8.52	7.96	8.83	9.14
	3H	10.77	11.59	11.16	11.92	12.29	10.57	11.38	10.95	11.72	12.09
	4H	12.42	13.18	12.83	13.53	13.92	12.22	12.98	12.63	13.33	13.72
	6H	14.34	15.03	14.76	15.40	15.80	14.08	14.77	14.50	15.15	15.54
	8H	15.39	16.04	15.83	16.43	16.84	15.11	15.76	15.55	16.15	16.56
	12H	17.08	17.70	17.52	18.08	18.52	16.81	17.43	17.25	17.81	18.24
4H	2H	8.54	9.30	8.95	9.65	10.04	8.43	9.18	8.84	9.54	9.93
	3H	11.83	12.45	12.25	12.86	13.27	11.68	12.30	12.10	12.71	13.11
	4H	13.66	14.22	14.10	14.64	15.09	13.51	14.06	13.95	14.49	14.94
	6H	15.66	16.13	16.13	16.58	17.06	15.46	15.93	15.93	16.38	16.86
	8H	16.84	17.28	17.32	17.73	18.21	16.61	17.05	17.09	17.50	17.98
	12H	18.47	18.85	18.96	19.34	19.82	18.24	18.61	18.73	19.10	19.58
8H	4H	14.32	14.76	14.80	15.22	15.69	14.20	14.64	14.68	15.09	15.57
	6H	16.61	16.95	17.12	17.46	17.94	16.44	16.78	16.95	17.29	17.77
	8H	17.97	18.28	18.51	18.80	19.30	17.78	18.08	18.31	18.61	19.11
	12H	19.75	20.01	20.27	20.51	21.09	19.55	19.81	20.07	20.31	20.89
12H	4H	14.50	14.88	14.99	15.37	15.85	14.40	14.78	14.89	15.27	15.75
	6H	17.10	17.20	17.43	17.67	18.22	16.95	17.05	17.28	17.52	18.07
	8H	18.39	18.65	18.91	19.15	19.73	18.21	18.47	18.74	18.97	19.56

Variation with the observer position at spacings:		
S = 1.0H	0.3/-1.2	0.3/-1.2
S = 1.5H	0.3/-1.2	0.3/-1.2
S = 2.0H	0.1/-1.0	0.1/-1.0
Standard tables:	BKBF	BKBF
Uncorrected UGR	0.7	0.7

Budgetary Estimate Table

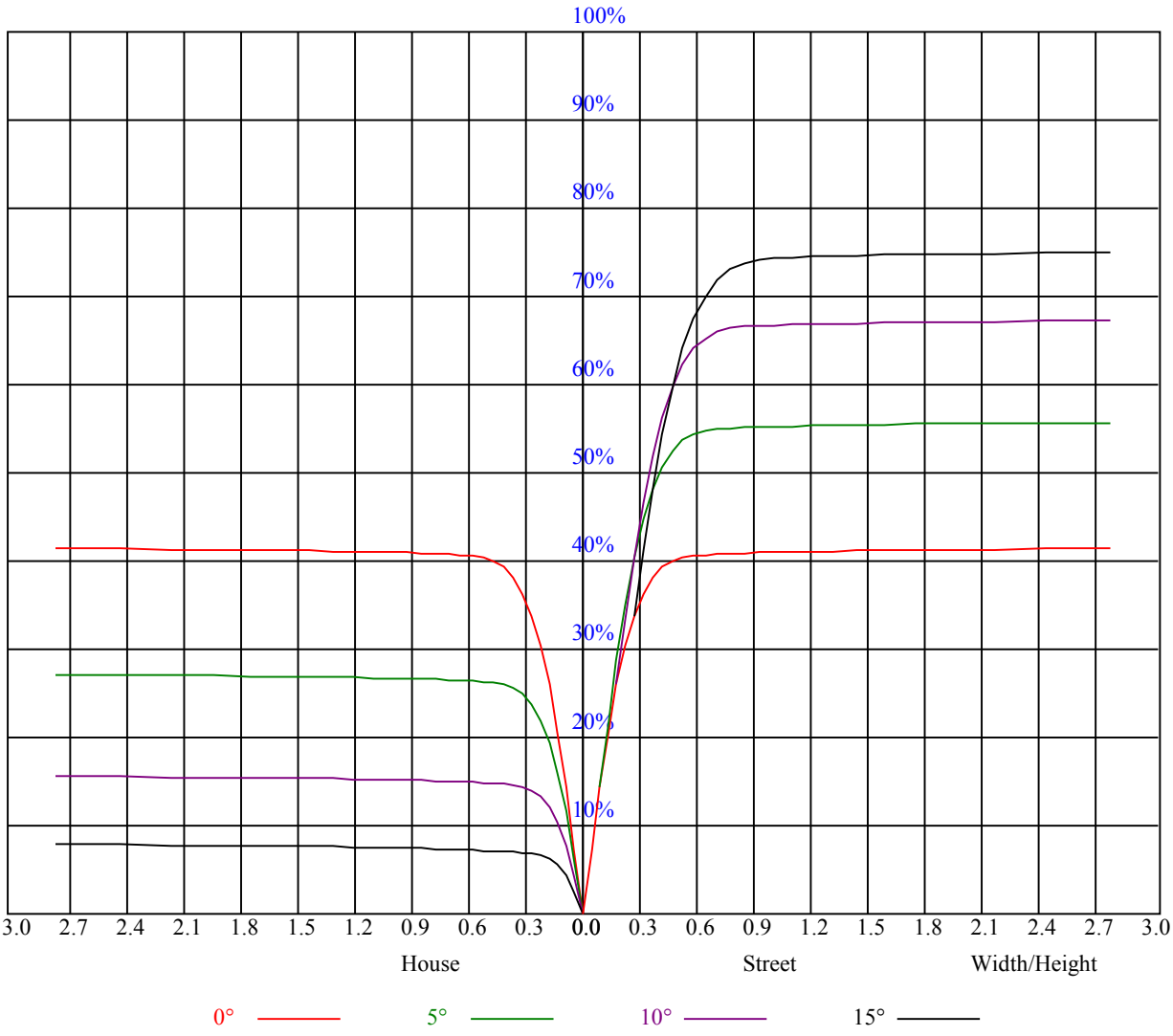


Equipment: GMS1980 Date: 2019/1/2 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2019/1/2	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	5942.81	5824.69	5627.81	5385.94	5154.19	4904.44	4593.38	4268.25	3990.38
45.0	5936.63	5855.06	5726.25	5549.63	5337.00	5046.19	4789.69	4545.00	4188.38
90.0	5934.94	5901.75	5797.69	5630.63	5439.38	5220.00	4920.19	4647.94	4357.69
135.0	5870.81	5973.19	5955.19	5884.31	5708.25	5523.75	5313.38	5011.31	4753.13
180.0	5934.94	5970.94	5922.56	5779.69	5606.44	5406.19	5148.00	4857.75	4588.88
225.0	5936.63	5915.81	5825.81	5635.13	5437.69	5195.81	4911.19	4599.00	4320.56
270.0	5934.94	5873.63	5740.31	5563.13	5310.56	5056.88	4752.56	4429.69	4136.63
315.0	5870.81	5738.63	5559.19	5303.81	5028.75	4755.38	4398.19	4103.44	3810.38
360.0	5942.81	5824.69	5627.81	5385.94	5154.19	4904.44	4593.38	4268.25	3990.38

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3626.44	3342.38	3064.50	2804.63	2483.44	2242.69	2007.00	1722.94	1515.38
45.0	3861.00	3600.00	3219.19	2940.19	2665.69	2337.75	2085.19	1868.06	1587.38
90.0	3972.94	3675.38	3364.88	2998.69	2710.13	2441.25	2146.50	1894.50	1635.19
135.0	4475.81	4110.75	3812.06	3508.88	3141.00	2863.13	2580.19	2256.19	2008.13
180.0	4304.25	3939.19	3651.75	3368.81	3052.69	2748.38	2478.38	2189.81	1908.00
225.0	3999.38	3671.44	3378.38	3065.06	2793.38	2505.38	2228.63	1991.81	1768.50
270.0	3810.38	3483.56	3202.88	2929.50	2612.25	2367.56	2135.25	1879.31	1647.56
315.0	3481.88	3168.00	2904.19	2624.63	2385.00	2127.94	1879.31	1674.00	1451.81
360.0	3626.44	3342.38	3064.50	2804.63	2483.44	2242.69	2007.00	1722.94	1515.38

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1321.31	1137.38	990.56	866.25	720.56	593.44	462.38	340.31	291.94
45.0	1379.81	1198.69	1027.13	903.94	774.56	630.56	498.38	393.75	294.75
90.0	1362.38	1119.04	1043.04	891.45	750.94	629.44	499.78	379.07	286.31
135.0	1749.38	1499.63	1280.25	1118.81	964.69	833.63	690.19	554.06	439.31
180.0	1668.94	1422.00	1108.58	1056.77	913.89	792.73	669.54	520.14	411.98
225.0	1509.75	1323.56	1117.80	1007.89	883.86	755.10	613.24	479.70	371.03
270.0	1451.25	1256.06	1099.69	975.38	827.44	697.50	559.13	425.81	319.50
315.0	1120.33	1103.46	977.34	833.46	681.98	554.18	434.87	304.14	213.75
360.0	1321.31	1137.38	990.56	866.25	720.56	593.44	462.38	340.31	291.94

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	150.69	87.13	56.87	42.75	31.50	26.66	23.40	21.21	19.58
45.0	184.11	116.44	65.87	44.44	34.26	26.61	22.39	20.08	18.34
90.0	205.43	123.81	76.16	48.77	36.90	28.35	23.34	20.48	18.84
135.0	323.44	289.69	144.39	87.75	48.21	37.86	30.43	23.79	21.15
180.0	313.43	204.24	132.47	78.98	47.98	36.73	29.14	23.63	21.49
225.0	261.68	179.83	108.39	65.93	48.43	36.84	28.35	24.13	21.49
270.0	294.75	135.28	89.27	63.56	46.41	35.89	29.64	24.64	21.49
315.0	140.51	80.66	56.93	44.33	33.64	27.68	24.13	21.43	19.63
360.0	150.69	87.13	56.87	42.75	31.50	26.66	23.40	21.21	19.58

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	18.34	17.10	15.92	14.96	14.12	13.39	12.71	12.04	11.48
45.0	17.16	16.09	14.91	14.06	13.39	12.66	12.04	11.53	11.03
90.0	17.38	16.14	15.19	14.34	13.50	12.88	12.32	11.70	11.25
135.0	19.63	18.11	16.65	15.69	14.57	13.73	12.99	12.26	11.70
180.0	19.69	18.17	17.04	15.86	14.79	13.95	13.28	12.43	11.87
225.0	19.18	17.78	16.59	15.30	14.46	13.67	12.99	12.32	11.76
270.0	19.52	17.83	16.65	15.58	14.63	13.89	13.16	12.54	12.04
315.0	18.06	16.71	15.75	14.68	13.84	13.16	12.54	11.81	11.36
360.0	18.34	17.10	15.92	14.96	14.12	13.39	12.71	12.04	11.48

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	11.08	10.52	10.18	9.84	9.45	9.17	8.94	8.72	8.49
45.0	10.58	10.18	9.90	9.62	9.28	9.00	8.83	8.61	8.44
90.0	10.86	10.41	10.07	9.79	9.51	9.17	9.00	8.72	8.55
135.0	11.19	10.63	10.24	9.90	9.51	9.23	8.94	8.72	8.44
180.0	11.36	10.74	10.41	10.01	9.68	9.34	9.06	8.78	8.55
225.0	11.25	10.80	10.35	10.01	9.73	9.39	9.11	8.89	8.61
270.0	11.59	11.08	10.69	10.35	10.07	9.73	9.51	9.23	8.94
315.0	10.91	10.46	10.07	9.79	9.45	9.23	9.00	8.78	8.55
360.0	11.08	10.52	10.18	9.84	9.45	9.17	8.94	8.72	8.49

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.33	8.16	8.10	7.88	7.76	7.65	7.59	7.48	7.43
45.0	8.27	8.10	7.93	7.88	7.71	7.65	7.54	7.48	7.37
90.0	8.38	8.21	8.10	7.93	7.82	7.71	7.65	7.54	7.43
135.0	8.27	8.04	7.93	7.82	7.71	7.54	7.43	7.31	7.20
180.0	8.33	8.16	7.99	7.82	7.65	7.59	7.48	7.31	7.26
225.0	8.44	8.33	8.16	7.93	7.82	7.71	7.59	7.54	7.48
270.0	8.83	8.66	8.49	8.38	8.21	8.10	7.99	7.93	7.82
315.0	8.44	8.27	8.10	7.99	7.88	7.82	7.71	7.59	7.48
360.0	8.33	8.16	8.10	7.88	7.76	7.65	7.59	7.48	7.43

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.31	7.26	7.20	7.14	7.09	7.03	6.98	6.92	6.86
45.0	7.26	7.20	7.14	7.09	7.03	6.98	6.92	6.86	6.81
90.0	7.37	7.31	7.20	7.20	7.09	7.03	6.98	6.98	6.92
135.0	7.14	7.09	7.03	6.92	6.86	6.81	6.75	6.75	6.64
180.0	7.14	7.09	7.03	6.92	6.92	6.86	6.81	6.75	6.75
225.0	7.37	7.31	7.20	7.14	7.14	7.09	7.09	7.03	6.98
270.0	7.76	7.71	7.65	7.54	7.48	7.43	7.37	7.37	7.31
315.0	7.43	7.43	7.31	7.26	7.20	7.14	7.09	7.03	7.03
360.0	7.31	7.26	7.20	7.14	7.09	7.03	6.98	6.92	6.86

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.86	6.81	6.75	6.75	6.69	6.64	6.64	6.58	6.53
45.0	6.81	6.75	6.69	6.64	6.64	6.53	6.47	6.47	6.47
90.0	6.81	6.75	6.75	6.69	6.69	6.69	6.53	6.47	6.47
135.0	6.64	6.58	6.58	6.53	6.47	6.41	6.41	6.41	6.36
180.0	6.64	6.64	6.58	6.64	6.53	6.53	6.53	6.47	6.47
225.0	6.92	6.86	6.86	6.86	6.81	6.75	6.75	6.69	6.75
270.0	7.31	7.20	7.14	7.14	7.09	7.09	7.09	7.26	7.37
315.0	6.98	6.92	6.81	6.75	6.64	6.69	6.41	6.24	6.08
360.0	6.86	6.81	6.75	6.75	6.69	6.64	6.64	6.58	6.53

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.47	6.41	6.36	6.36	6.24	6.13	5.68	5.68	5.68
45.0	6.41	6.36	6.36	6.30	6.24	6.24	5.79	5.74	5.74
90.0	6.41	6.36	6.36	6.36	6.36	6.41	5.74	5.74	5.68
135.0	6.30	6.30	6.30	6.36	6.36	6.47	6.64	5.74	5.74
180.0	6.41	6.47	6.47	6.41	6.53	6.58	5.74	5.68	5.68
225.0	6.98	7.14	6.86	6.64	6.64	6.75	5.79	5.79	5.74
270.0	7.37	7.20	6.92	6.92	6.86	6.69	5.96	6.02	5.79
315.0	6.02	5.91	5.79	5.79	5.79	5.74	5.74	5.74	5.68
360.0	6.47	6.41	6.36	6.36	6.24	6.13	5.68	5.68	5.68

Intensity data(cd)

C/γ(°)	90.0
0.0	5.63
45.0	5.74
90.0	5.63
135.0	5.68
180.0	5.68
225.0	5.74
270.0	5.74
315.0	5.68
360.0	5.63