NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 3-1742-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): 1597.20
Efficiency(%): 77.12%
Lumens(lm)/Power(W): 72.01
Central intensity(cd): 6205.360
Maximum intensity(cd): 6205.360
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=23.7
[C90/270]Total=23.7
Field angle(10%Imax): [C0/180]Total=46.8
[C90/270]Total=46.8
Maximum s/h(1/2): C0_180=0.40 C90_270=0.40
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 77.19%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.259%

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	6205.359	1.485	1.485	.072%	.093%
1.0	6174.492	11.817	13.302	.571%	.833%
2.0	6073.172	23.243	36.544	1.122%	2.288%
3.0	5918.625	33.968	70.513	1.640%	4.415%
4.0	5728.781	43.823	114.335	2.116%	7.158%
5.0	5482.758	52.402	166.737	2.530%	10.439%
6.0	5206.078	59.676	226.413	2.881%	14.176%
7.0	4905.773	65.562	291.975	3.166%	18.280%
8.0	4569.258	69.735	361.71	3.367%	22.646%
9.0	4202.859	72.099	433.809	3.481%	27.161%
10.0	3816.000	72.666	506.475	3.509%	31.710%
11.0	3413.602	71.427	577.902	3.449%	36.182%
12.0	3044.813	69.421	647.323	3.352%	40.529%
13.0	2642.484	65.186	712.509	3.148%	44.610%
14.0	2283.398	60.577	773.086	2.925%	48.402%
15.0	1986.820	56.391	829.477	2.723%	51.933%
16.0	1704.445	51.520	880.996	2.488%	55.159%
17.0	1406.714	45.102	926.098	2.178%	57.982%
18.0	1190.292	40.336	966.433	1.948%	60.508%
19.0	1039.029	37.096	1003.529	1.791%	62.830%
20.0	890.993	33.418	1036.947	1.614%	64.923%
21.0	789.616	31.031	1067.978	1.498%	66.866%
22.0	712.195	29.257	1097.235	1.413%	68.697%
23.0	643.050	27.553	1124.788	1.330%	70.422%
24.0	584.170	26.056	1150.844	1.258%	72.054%
25.0	534.059	24.751	1175.595	1.195%	73.603%
26.0	488.243	23.471	1199.065	1.133%	75.073%
27.0	450.949	22.451	1221.516	1.084%	76.478%
28.0	413.522	21.289	1242.805	1.028%	77.811%
29.0	381.284	20.271	1263.076	.979%	79.081%
30.0	354.966	19.463	1282.539	.940%	80.299%
31.0	327.713	18.509	1301.048	.894%	81.458%
32.0	301.591	17.526	1318.574	.846%	82.555%
33.0	285.398	17.046	1335.619	.823%	83.622%
34.0	262.512	16.098	1351.717	.777%	84.630%
35.0	243.752	15.332	1367.049	.740%	85.590%
36.0	224.395	14.464	1381.513	.698%	86.496%
37.0	209.454	13.823	1395.336	.667%	87.361%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	195.848	13.223	1408.558	.638%	88.189%
39.0	181.603	12.533	1421.091	.605%	88.974%
40.0	170.051	11.987	1433.078	.579%	89.724%
41.0	159.173	11.452	1444.529	.553%	90.441%
42.0	146.384	10.741	1455.27	.519%	91.114%
43.0	134.227	10.039	1465.309	.485%	91.742%
44.0	123.483	9.407	1474.716	.454%	92.331%
45.0	112.380	8.714	1483.43	.421%	92.877%
46.0	101.672	8.020	1491.45	.387%	93.379%
47.0	92.538	7.422	1498.872	.358%	93.844%
48.0	83.791	6.828	1505.7	.330%	94.271%
49.0	75.909	6.282	1511.983	.303%	94.664%
50.0	68.407	5.747	1517.729	.277%	95.024%
51.0	61.840	5.270	1522.999	.254%	95.354%
52.0	56.130	4.850	1527.85	.234%	95.658%
53.0	51.040	4.470	1532.32	.216%	95.938%
54.0	45.738	4.058	1536.378	.196%	96.192%
55.0	41.484	3.726	1540.104	.180%	96.425%
56.0	37.807	3.437	1543.541	.166%	96.640%
57.0	34.144	3.140	1546.681	.152%	96.837%
58.0	31.226	2.904	1549.585	.140%	97.019%
59.0	28.877	2.714	1552.3	.131%	97.189%
60.0	26.367	2.504	1554.804	.121%	97.345%
61.0	24.349	2.335	1557.139	.113%	97.492%
62.0	22.873	2.215	1559.354	.107%	97.630%
63.0	21.663	2.117	1561.47	.102%	97.763%
64.0	20.742	2.044	1563.515	.099%	97.891%
65.0	19.976	1.985	1565.5	.096%	98.015%
66.0	19.209	1.924	1567.425	.093%	98.136%
67.0	18.520	1.870	1569.294	.090%	98.253%
68.0	17.859	1.816	1571.11	.088%	98.366%
69.0	17.184	1.759	1572.869	.085%	98.476%
70.0	16.601	1.711	1574.58	.083%	98.584%
71.0	16.003	1.659	1576.239	.080%	98.687%
72.0	15.349	1.601	1577.84	.077%	98.788%
73.0	14.801	1.552	1579.392	.075%	98.885%
74.0	14.252	1.502	1580.895	.073%	98.979%
75.0	13.648	1.446	1582.34	.070%	99.069%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.092	1.393	1583.733	.067%	99.157%
77.0	12.558	1.342	1585.075	.065%	99.241%
78.0	11.974	1.284	1586.359	.062%	99.321%
79.0	11.355	1.222	1587.582	.059%	99.398%
80.0	10.800	1.166	1588.748	.056%	99.471%
81.0	10.252	1.110	1589.859	.054%	99.540%
82.0	9.717	1.055	1590.914	.051%	99.606%
83.0	9.162	0.997	1591.911	.048%	99.669%
84.0	8.627	0.941	1592.852	.045%	99.728%
85.0	8.121	0.887	1593.739	.043%	99.783%
86.0	7.615	0.833	1594.572	.040%	99.835%
87.0	7.207	0.789	1595.361	.038%	99.885%
88.0	6.848	0.751	1596.112	.036%	99.932%
89.0	6.659	0.730	1596.842	.035%	99.977%
90.0	6.581	0.361	1597.203	.017%	100.000%

Zonal flux distribution table

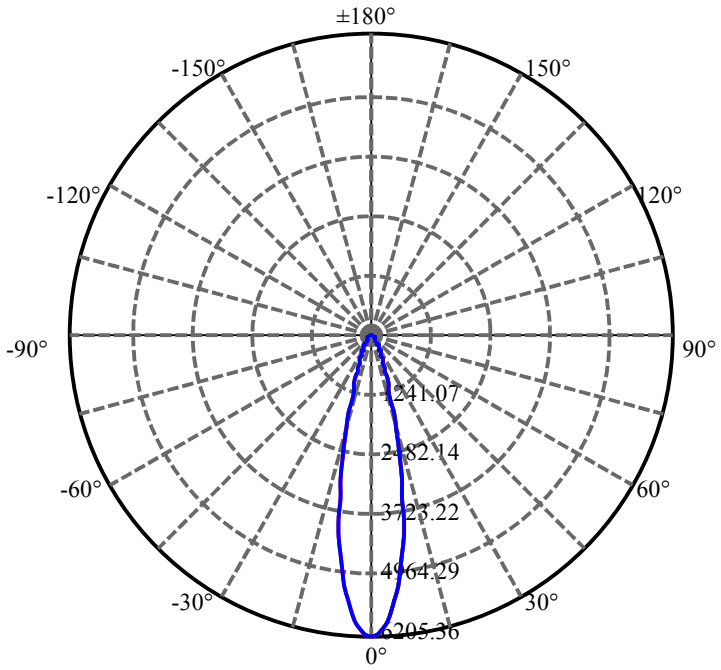
ZONAL LUMEN SUMMARY

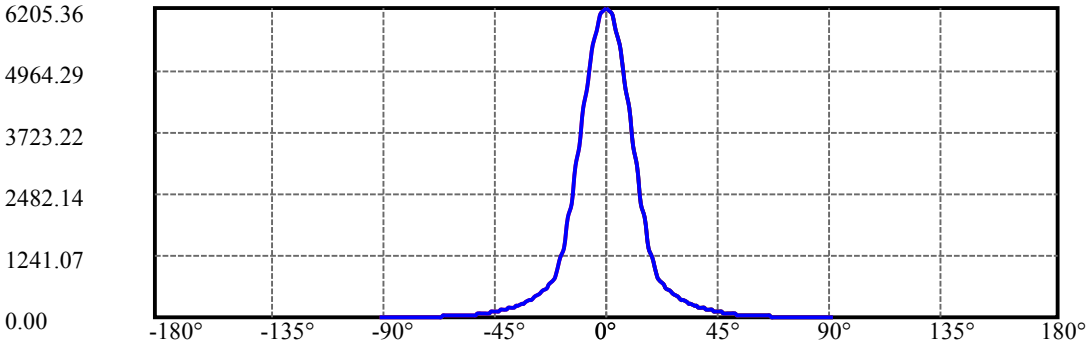
Zone	Lumens	%Lamp	%Fixt
0-30	1282.54	61.93%	80.30%
0-40	1433.08	69.20%	89.72%
0-60	1554.80	75.08%	97.35%
0-90	1596.84	77.10%	99.98%
0-120	1596.84	77.10%	99.98%
0-180	1597.20	77.12%	100.00%
60-90	44.54	2.15%	2.79%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.75	1277.76	61.70%	80.00%

ZONAL LUMEN SUMMARY

0-10	506.47
10-20	530.47
20-30	245.59
30-40	150.54
40-50	84.65
50-60	37.07
60-70	19.78
70-80	14.17
80-90	8.09
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):

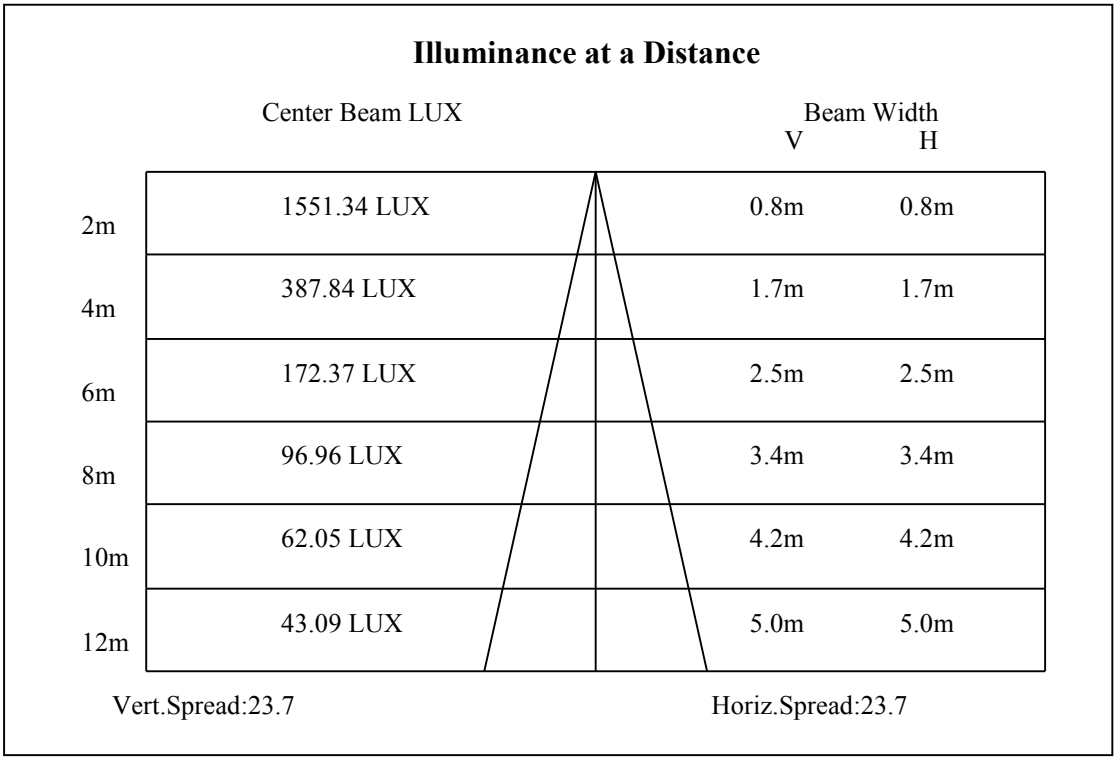
C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:23.4 Right:23.4
:C90/270Left:23.4 Right:23.4

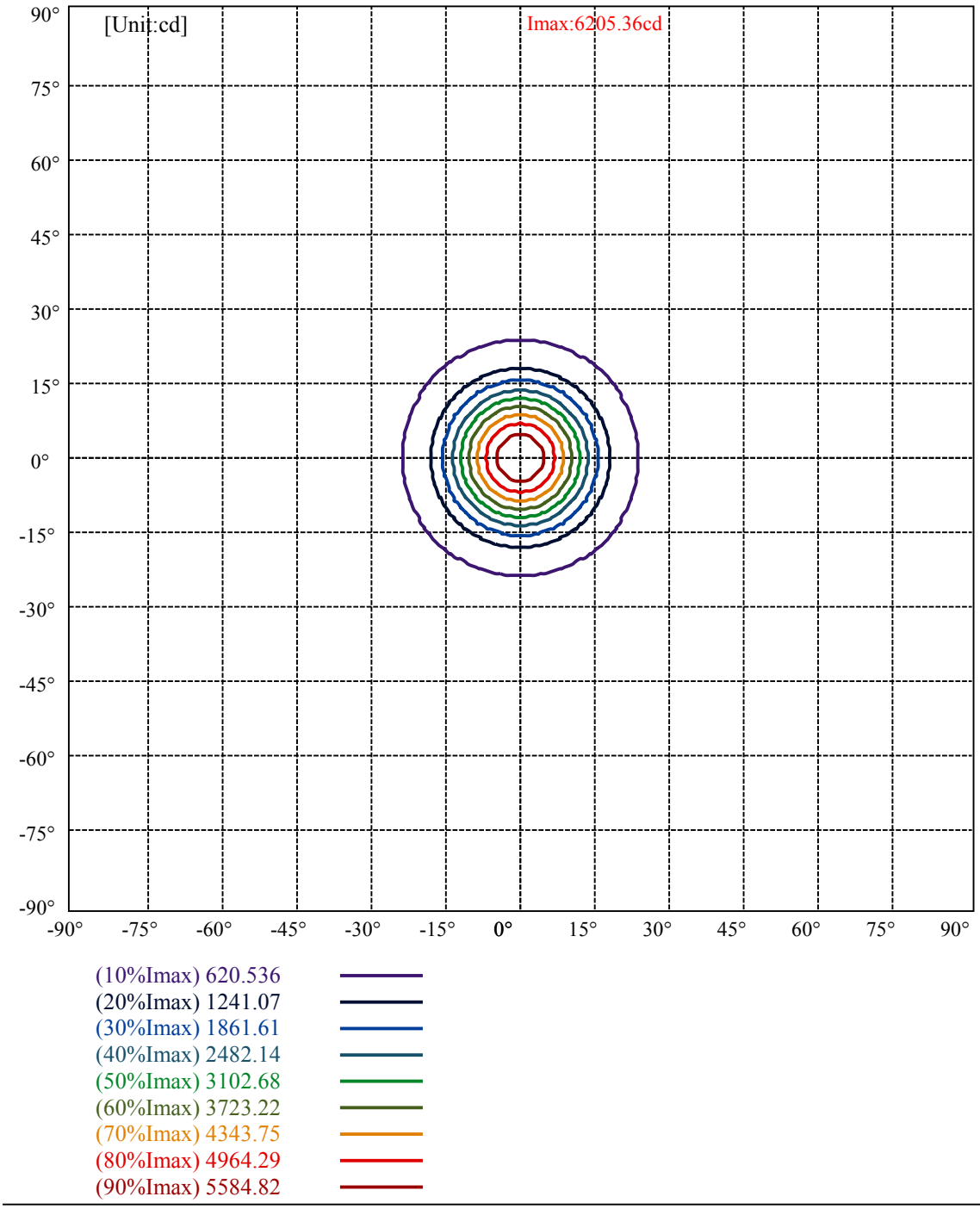
Beam Angle(50%Imax):C0/180Left:11.8 Right:11.8
:C90/270Left:11.8 Right:11.8

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)

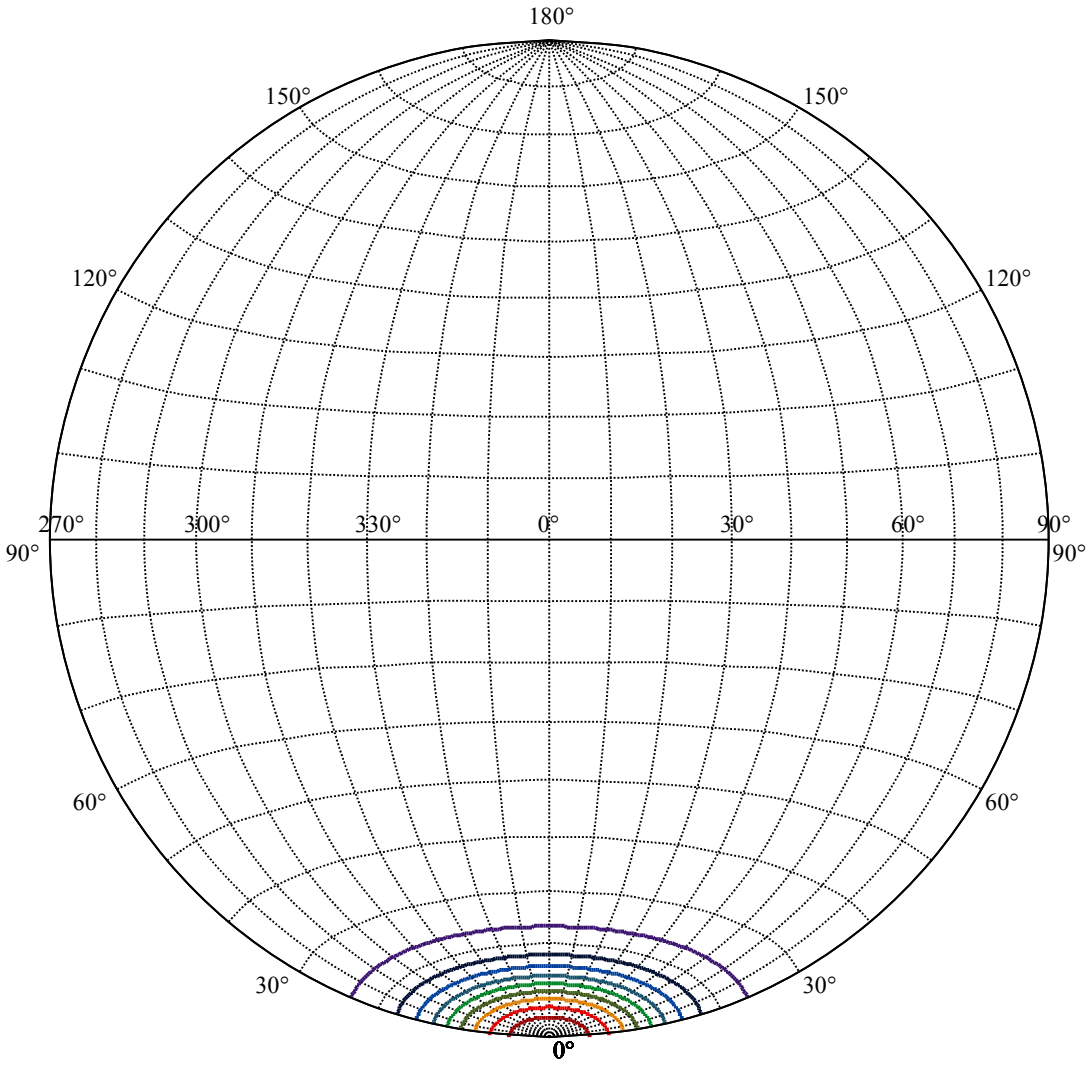


Equipment: GMS1980
Temperature(°C): 10.0

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

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



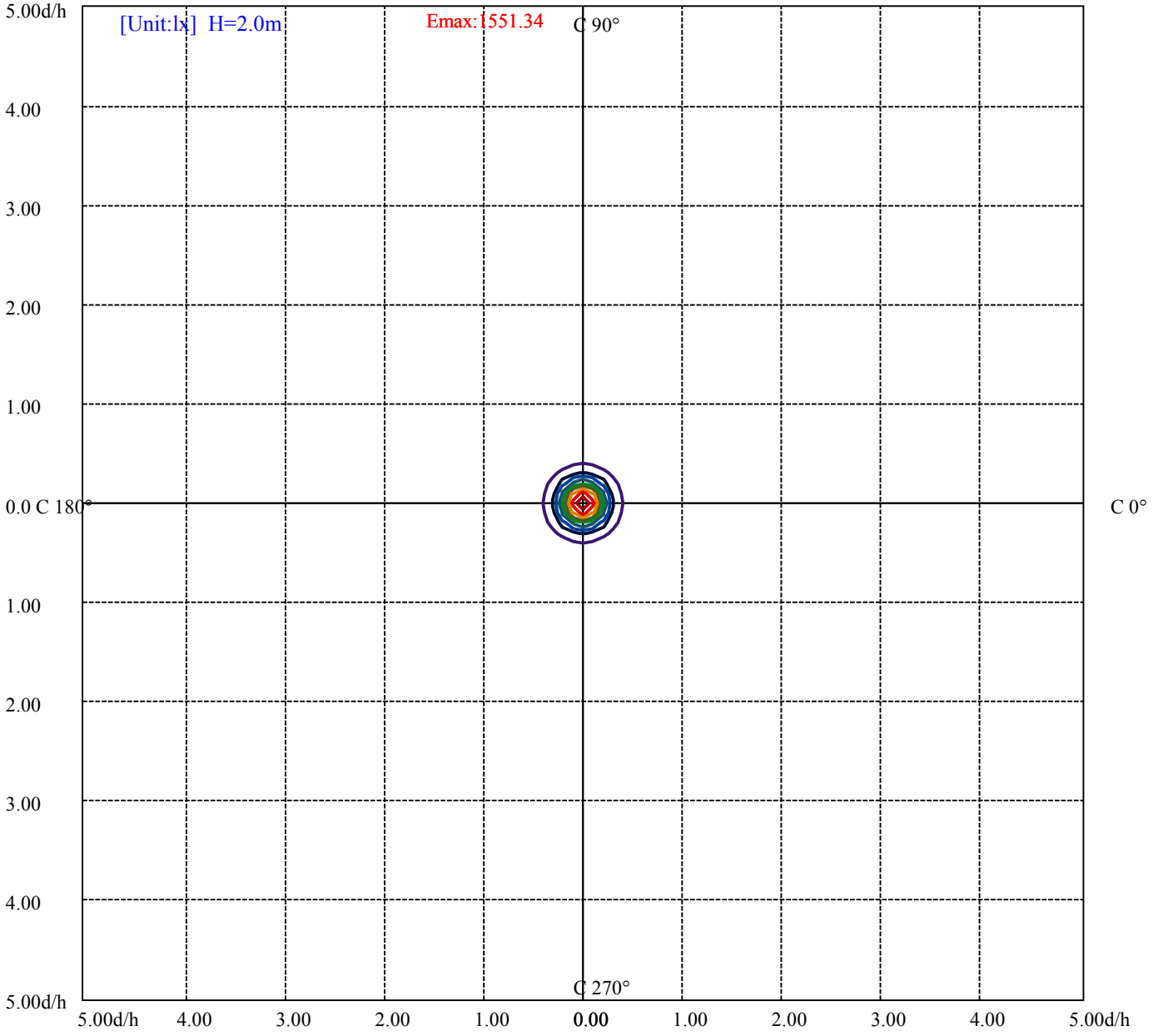
House [Unit:cd] Road

Imax:6205.36

(10%Imax) 620.536
(20%Imax) 1241.07
(30%Imax) 1861.61
(40%Imax) 2482.14
(50%Imax) 3102.68
(60%Imax) 3723.22
(70%Imax) 4343.75
(80%Imax) 4964.29
(90%Imax) 5584.82

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

ISO illuminance diagram

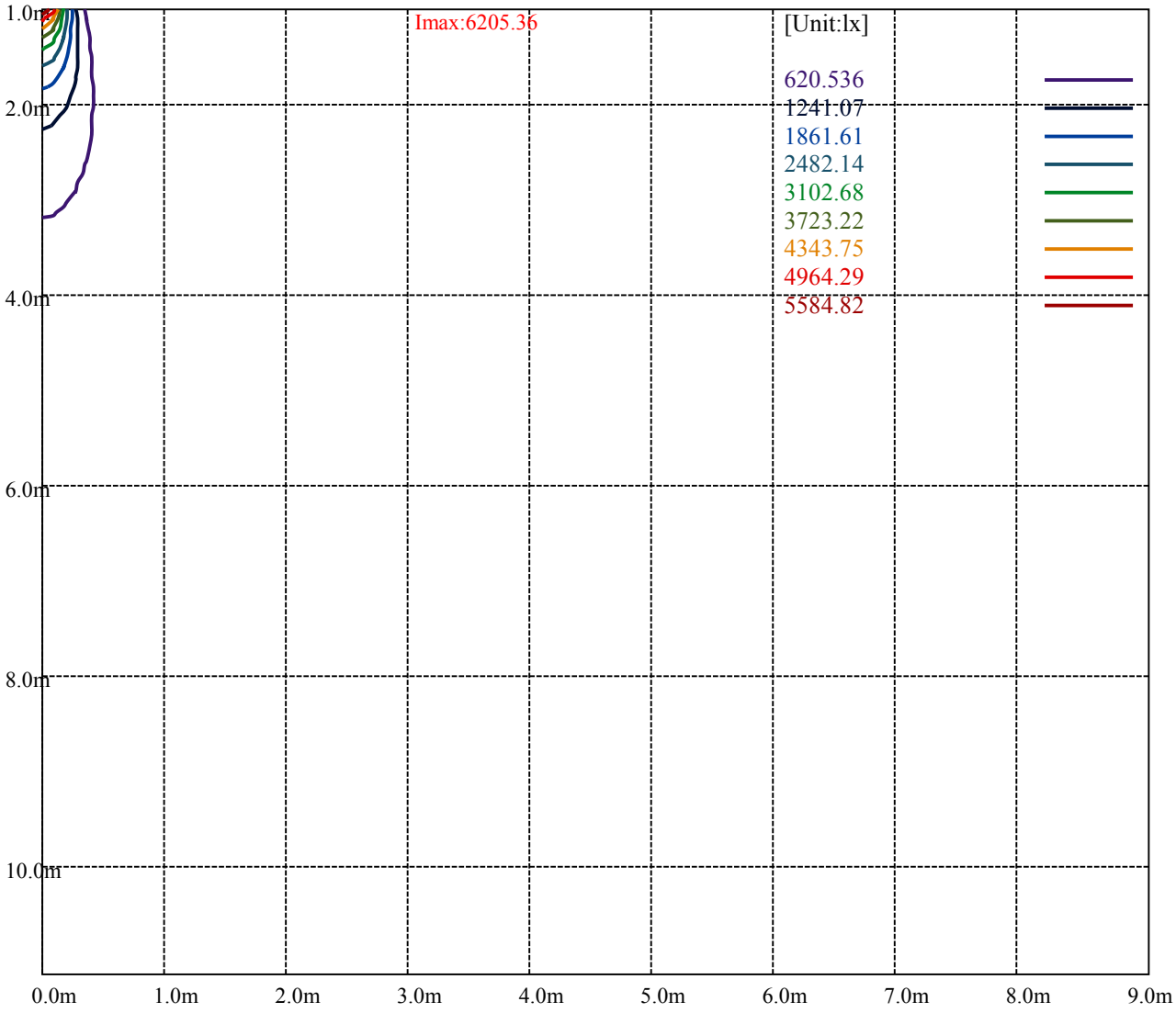


Equipment: GMS1980
Temperature(°C): 10.0

Date: 2019/1/26
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

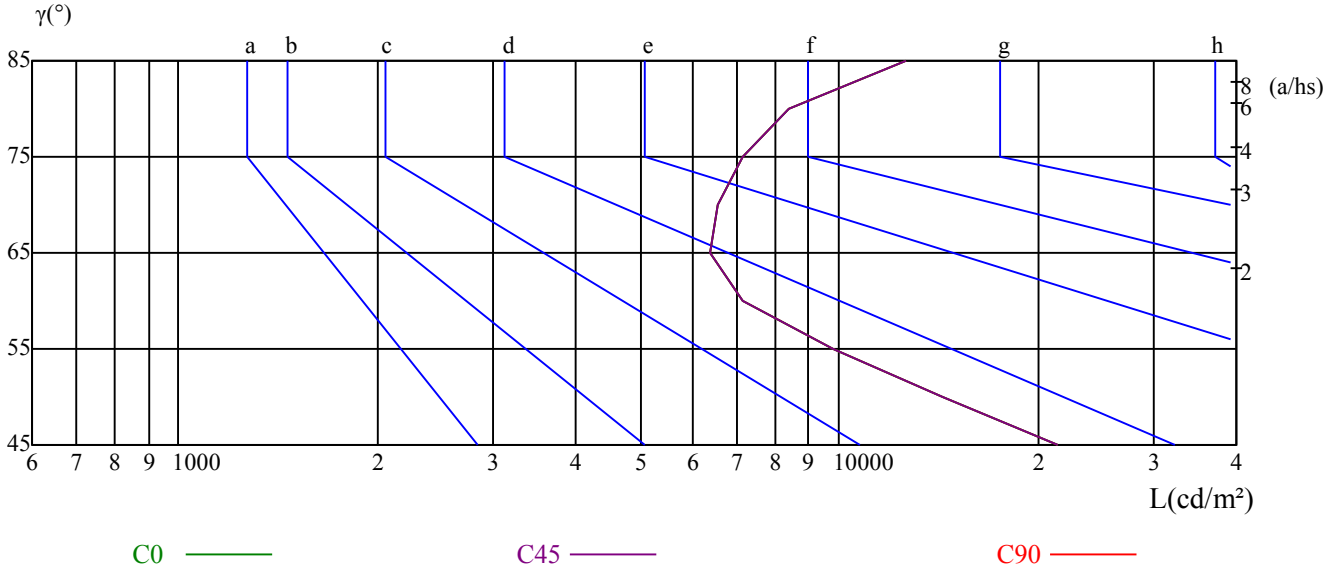
γ	45	50	55	60	65	70	75	80	85
C0	21489	14389	9779	7130	6391	6563	7130	8409	12599
C45	21489	14389	9779	7130	6391	6563	7130	8409	12599
C90	21489	14389	9779	7130	6391	6563	7130	8409	12599

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
6391	6391	6391	7130	7130	7130	12599	12599	12599

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

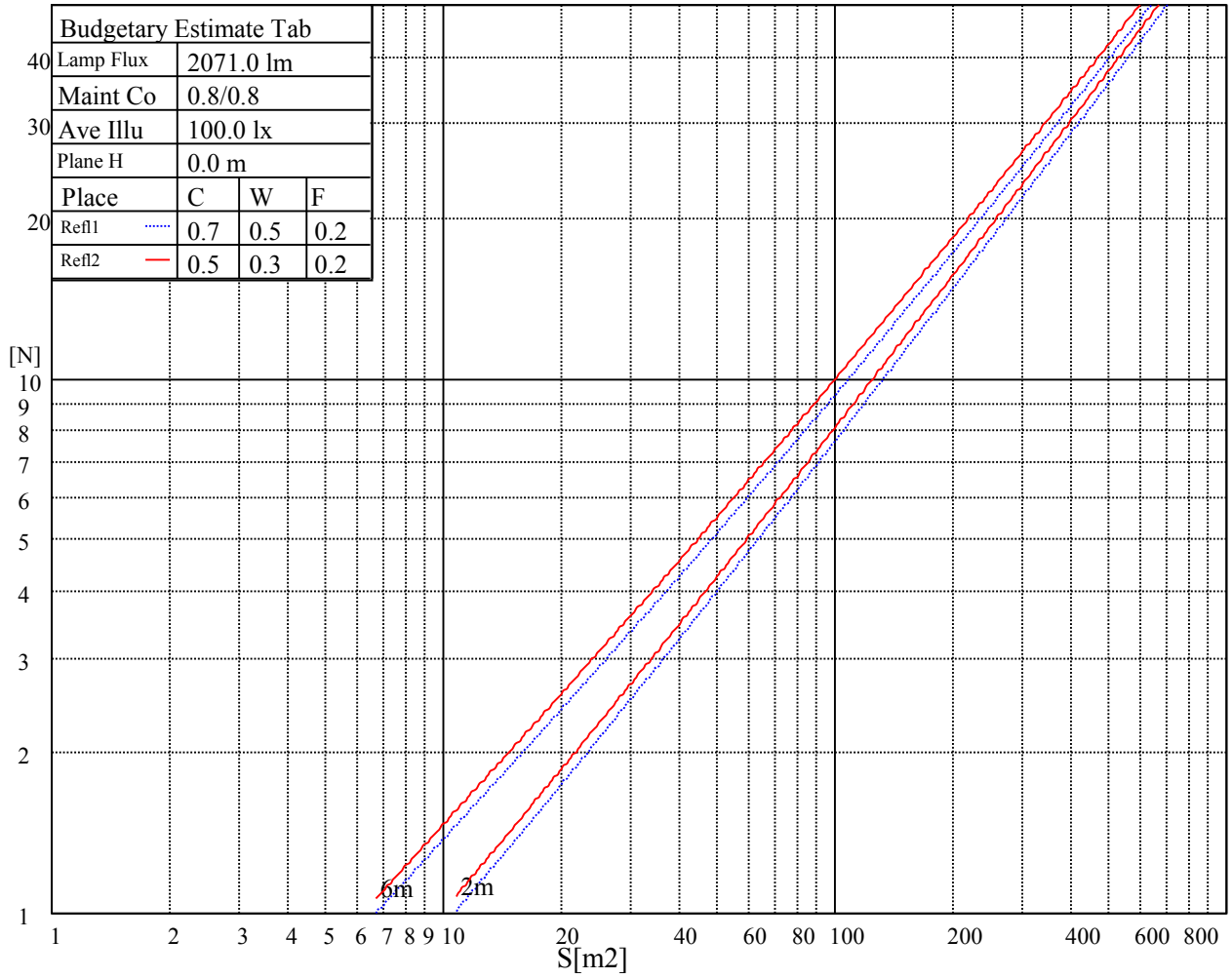
Luminance Limitting Curve



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	11.57	12.60	11.94	12.91	13.23	11.56	12.59	11.93	12.90	13.21
	3H	12.84	13.75	13.22	14.08	14.45	12.86	13.77	13.25	14.10	14.47
	4H	13.55	14.39	13.95	14.74	15.13	13.58	14.43	13.99	14.78	15.17
	6H	14.31	15.08	14.72	15.45	15.85	14.35	15.12	14.77	15.50	15.89
	8H	14.70	15.43	15.14	15.82	16.23	14.75	15.48	15.19	15.87	16.28
	12H	15.39	16.09	15.83	16.47	16.90	15.43	16.13	15.87	16.51	16.94
4H	2H	11.83	12.67	12.24	13.02	13.41	11.82	12.66	12.23	13.01	13.40
	3H	13.42	14.10	13.83	14.51	14.92	13.44	14.12	13.85	14.53	14.94
	4H	14.31	14.93	14.75	15.35	15.80	14.35	14.96	14.79	15.39	15.84
	6H	15.17	15.70	15.64	16.15	16.62	15.22	15.74	15.69	16.19	16.67
	8H	15.70	16.19	16.17	16.64	17.11	15.74	16.23	16.22	16.68	17.16
	12H	16.44	16.87	16.94	17.36	17.84	16.48	16.91	16.97	17.40	17.87
8H	4H	14.64	15.13	15.11	15.58	16.06	14.67	15.16	15.15	15.61	16.09
	6H	15.75	16.14	16.26	16.65	17.13	15.79	16.18	16.30	16.68	17.17
	8H	16.44	16.79	16.97	17.31	17.81	16.47	16.82	17.01	17.35	17.84
	12H	17.53	17.83	18.05	18.33	18.91	17.56	17.86	18.08	18.36	18.94
12H	4H	14.69	15.12	15.18	15.61	16.08	14.72	15.15	15.21	15.64	16.11
	6H	16.20	16.24	16.43	16.71	17.26	16.24	16.28	16.46	16.75	17.30
	8H	16.68	16.99	17.20	17.48	18.06	16.71	17.02	17.24	17.52	18.10
Variation with the observer position at spacings:											
S = 1.0H		1.4/-2.0					1.4/-2.0				
S = 1.5H		2.5/-2.2					2.5/-2.2				
S = 2.0H		3.9/-1.9					3.9/-1.9				
Standard tables:		BK3					BK3				
Uncorrected UGR		1.0					1.0				

Budgetary Estimate Table

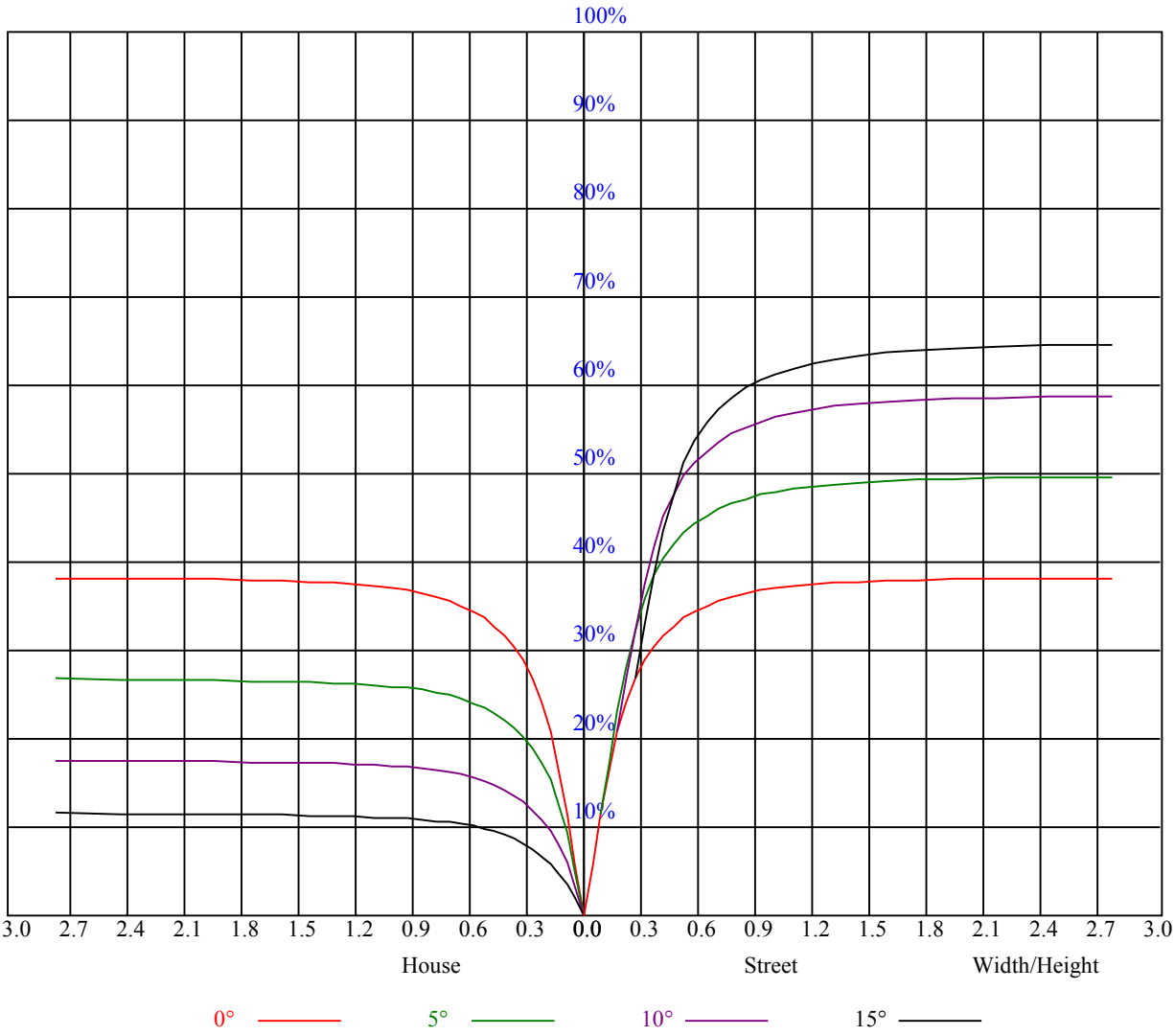


Equipment: GMS1980 Date: 2019/1/26 Operator: NT07
Temperature(°C): 10.0 Humidity(%): 65.0% Distance(m): 7.50

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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
1	0.86	0.84	0.82	0.84	0.83	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.76	0.75	0.74	0.73
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	0.76	0.73	0.70	0.75	0.72	0.70	0.73	0.71	0.69	0.72	0.69	0.68	0.70	0.68	0.67	0.65
4	0.73	0.69	0.66	0.72	0.68	0.66	0.70	0.67	0.65	0.69	0.66	0.64	0.67	0.65	0.63	0.62
5	0.69	0.65	0.63	0.69	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
6	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.63	0.60	0.58	0.57
7	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.61	0.58	0.56	0.61	0.58	0.56	0.55
8	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.52	0.57	0.54	0.52	0.57	0.54	0.52	0.51
10	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.51	0.56	0.53	0.51	0.55	0.52	0.51	0.50

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	6215.06	6162.75	6045.19	5873.06	5674.50	5445.00	5163.75	4845.38	4542.75
45.0	6208.88	6153.19	6009.75	5834.81	5619.94	5349.38	5036.06	4736.25	4362.19
90.0	6202.13	6150.38	6027.19	5831.44	5618.81	5335.88	5016.38	4711.50	4320.56
135.0	6195.38	6215.63	6155.44	6046.88	5885.44	5626.13	5381.44	5099.63	4755.94
180.0	6215.06	6205.50	6135.19	5984.44	5776.31	5565.38	5281.88	4960.69	4644.56
225.0	6208.88	6197.06	6113.25	5969.25	5798.25	5555.25	5285.81	4980.94	4680.56
270.0	6202.13	6189.19	6099.75	5983.31	5820.75	5592.94	5331.94	5077.13	4757.06
315.0	6195.38	6122.25	5999.63	5825.81	5636.25	5392.13	5151.38	4834.69	4490.44
360.0	6215.06	6162.75	6045.19	5873.06	5674.50	5445.00	5163.75	4845.38	4542.75

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4129.88	3783.94	3423.38	3056.63	2620.69	2301.75	2002.50	1698.19	1428.75
45.0	3952.13	3584.81	3165.75	2793.38	2412.00	2066.63	1791.00	1540.13	1267.31
90.0	3951.56	3521.25	3089.25	2722.50	2335.50	1987.88	1715.63	1475.44	1120.84
135.0	4369.50	3999.38	3564.00	3168.56	2729.25	2327.06	2002.50	1689.19	1407.38
180.0	4295.81	3837.94	3462.75	3087.00	2634.19	2296.69	1990.13	1683.56	1411.88
225.0	4358.81	3966.19	3557.25	3191.63	2797.31	2432.81	2132.44	1845.56	1536.19
270.0	4411.69	4071.94	3684.38	3335.06	2946.38	2578.50	2272.50	1982.81	1656.00
315.0	4153.50	3762.56	3362.06	3003.75	2664.56	2275.88	1987.88	1720.69	1425.38
360.0	4129.88	3783.94	3423.38	3056.63	2620.69	2301.75	2002.50	1698.19	1428.75

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1225.13	1038.38	894.38	800.44	717.19	657.00	596.25	544.50	502.31
45.0	1091.81	947.25	813.94	736.31	669.94	612.56	549.56	503.44	464.06
90.0	1037.36	901.46	788.12	702.68	638.83	577.69	523.86	480.66	438.98
135.0	1200.94	1027.69	864.56	772.31	698.63	623.81	570.38	522.00	475.31
180.0	1109.59	1010.25	882.17	774.56	692.72	632.42	572.51	520.03	479.42
225.0	1321.31	1110.49	961.26	837.17	752.74	668.25	611.04	560.08	504.17
270.0	1428.19	1227.38	1020.94	897.19	805.50	721.13	652.50	597.94	545.06
315.0	1108.01	1049.34	902.59	796.28	722.03	651.54	597.26	543.83	496.63
360.0	1225.13	1038.38	894.38	800.44	717.19	657.00	596.25	544.50	502.31

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	468.00	423.00	394.31	371.25	337.50	314.44	295.88	284.06	251.61
45.0	425.81	392.06	361.69	336.38	311.06	291.38	284.63	251.66	237.32
90.0	406.35	373.95	344.42	320.29	298.29	273.38	254.98	237.88	218.25
135.0	434.81	402.75	370.13	343.13	314.44	288.56	285.75	245.48	228.32
180.0	443.53	403.54	374.57	347.96	320.46	293.85	272.36	251.04	232.14
225.0	469.13	429.41	391.73	367.43	342.11	310.22	291.49	271.74	246.66
270.0	501.19	458.44	421.88	392.63	363.38	335.25	312.75	291.38	286.31
315.0	458.78	425.03	391.56	360.68	334.46	305.66	285.36	266.85	249.41
360.0	468.00	423.00	394.31	371.25	337.50	314.44	295.88	284.06	251.61

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	236.03	220.05	206.49	192.49	179.89	169.71	156.15	143.27	131.91
45.0	219.66	206.61	195.13	181.80	171.79	160.76	145.29	134.33	123.64
90.0	203.68	190.91	178.14	166.73	156.99	144.96	134.38	122.96	111.99
135.0	212.57	198.28	184.39	171.96	161.66	151.37	138.43	128.08	118.13
180.0	216.62	200.36	187.31	173.59	160.88	150.36	139.39	125.94	116.04
225.0	231.98	216.34	200.14	185.06	173.19	161.04	150.19	137.08	124.99
270.0	245.25	228.43	213.81	194.06	181.35	171.28	156.71	144.45	134.61
315.0	229.39	214.65	201.38	187.14	174.66	163.91	150.53	137.70	126.56
360.0	236.03	220.05	206.49	192.49	179.89	169.71	156.15	143.27	131.91

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	120.94	107.94	98.27	89.33	80.04	71.72	65.08	58.50	52.71
45.0	112.16	101.42	92.53	83.25	75.71	68.06	61.14	55.52	49.67
90.0	102.66	92.98	84.15	76.95	70.26	62.66	57.15	52.14	47.42
135.0	106.48	97.82	89.61	81.23	73.52	67.33	60.86	55.63	50.18
180.0	106.54	95.63	87.41	79.93	71.38	65.08	59.34	52.93	48.83
225.0	114.58	103.56	93.26	85.05	77.57	68.85	62.72	57.21	52.37
270.0	121.16	109.69	101.19	90.06	81.84	74.42	66.15	60.30	55.18
315.0	114.53	104.34	93.88	84.54	76.95	69.13	62.27	56.81	51.98
360.0	120.94	107.94	98.27	89.33	80.04	71.72	65.08	58.50	52.71

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	47.87	42.98	39.15	35.44	32.18	29.59	27.06	24.86	23.29
45.0	44.49	40.39	36.79	32.96	30.32	28.01	25.48	23.79	22.50
90.0	42.13	38.42	35.10	31.61	29.14	26.94	24.81	23.01	21.83
135.0	45.23	41.23	37.24	33.81	31.11	28.97	26.16	24.36	22.89
180.0	43.99	39.26	36.34	33.02	29.93	28.01	26.04	23.79	22.56
225.0	46.69	42.53	38.36	34.76	31.89	29.42	26.89	24.75	23.01
270.0	49.22	44.89	40.95	36.68	33.58	30.88	27.84	25.71	23.96
315.0	46.29	42.19	38.53	34.88	31.67	29.19	26.66	24.53	22.95
360.0	47.87	42.98	39.15	35.44	32.18	29.59	27.06	24.86	23.29

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.28	21.21	20.48	19.74	19.01	18.28	17.61	16.93	16.26
45.0	21.49	20.59	19.86	19.07	18.34	17.78	17.10	16.54	15.86
90.0	20.87	20.08	19.29	18.56	18.00	17.33	16.71	16.14	15.58
135.0	21.49	20.64	19.97	19.13	18.39	17.89	17.16	16.65	16.03
180.0	21.54	20.70	19.86	19.18	18.45	17.78	17.21	16.59	16.09
225.0	21.66	20.64	19.91	19.18	18.51	17.78	17.16	16.59	16.03
270.0	22.22	21.09	20.31	19.52	18.84	18.11	17.38	16.82	16.14
315.0	21.77	20.98	20.14	19.29	18.62	17.94	17.16	16.54	16.03
360.0	22.28	21.21	20.48	19.74	19.01	18.28	17.61	16.93	16.26

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.69	15.02	14.46	13.84	13.28	12.71	12.21	11.48	10.91
45.0	15.30	14.79	14.18	13.56	12.94	12.49	11.81	11.19	10.69
90.0	14.91	14.40	13.89	13.33	12.71	12.21	11.64	11.03	10.52
135.0	15.41	14.96	14.40	13.78	13.33	12.77	12.09	11.53	11.03
180.0	15.41	14.79	14.29	13.73	13.11	12.54	12.04	11.31	10.80
225.0	15.36	14.79	14.29	13.67	13.16	12.60	12.04	11.48	10.91
270.0	15.47	14.91	14.34	13.73	13.22	12.71	12.09	11.53	10.97
315.0	15.24	14.74	14.18	13.56	12.99	12.43	11.87	11.31	10.58
360.0	15.69	15.02	14.46	13.84	13.28	12.71	12.21	11.48	10.91

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.41	9.79	9.23	8.66	8.10	7.59	7.20	6.86	6.64
45.0	10.07	9.62	9.06	8.49	7.99	7.43	7.03	6.69	6.58
90.0	9.96	9.51	8.94	8.38	7.93	7.43	7.03	6.69	6.58
135.0	10.35	9.84	9.28	8.83	8.33	7.76	7.31	6.92	6.69
180.0	10.29	9.68	9.11	8.66	8.10	7.65	7.14	6.86	6.64
225.0	10.35	9.84	9.28	8.72	8.27	7.76	7.37	6.98	6.69
270.0	10.46	9.90	9.39	8.78	8.27	7.76	7.43	6.98	6.81
315.0	10.13	9.56	9.00	8.49	7.99	7.54	7.14	6.81	6.64
360.0	10.41	9.79	9.23	8.66	8.10	7.59	7.20	6.86	6.64

Intensity data(cd)

C/γ(°)	90.0
0.0	6.58
45.0	6.58
90.0	6.58
135.0	6.58
180.0	6.58
225.0	6.58
270.0	6.58
315.0	6.58
360.0	6.58