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

Client:
LumCAT: 1-0938-N
Luminaire: 92.70.246.00

Report No: 200728-B003	Voltage(V): 34.7700
Test No: 200728-C003	Current(A): 0.2860
LampCAT: CITIZENCLU028	Power (W): 9.9440
Lamp flux(lm): 1206.9	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 908.10, Efficiency(%): 75.25% , Luminous Efficacy(lm/W): 91.32
Central intensity(cd): 1963.969, Maximum intensity(cd): 1963.969
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=41.0
[C90/270]Total=41.0
Field angle(10%Imax): [C0/180]Total=60.2
[C90/270]Total=60.2
Maximum s/h(1/2): C0_180=0.67 C90_270=0.67
Maximum s/h(1/4): C0_180=0.64 C90_270=0.64
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 75.25%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.006%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1963.969	0.000	0	.000%	.000%
1.0	1961.859	1.878	1.878	.156%	.207%
2.0	1953.773	5.620	7.499	.466%	.826%
3.0	1940.414	9.314	16.812	.772%	1.851%
4.0	1924.523	12.937	29.749	1.072%	3.276%
5.0	1900.477	16.455	46.204	1.363%	5.088%
6.0	1871.297	19.822	66.026	1.642%	7.271%
7.0	1839.164	23.031	89.057	1.908%	9.807%
8.0	1803.797	26.072	115.129	2.160%	12.678%
9.0	1761.188	28.892	144.021	2.394%	15.860%
10.0	1714.359	31.452	175.473	2.606%	19.323%
11.0	1666.406	33.781	209.254	2.799%	23.043%
12.0	1614.023	35.860	245.114	2.971%	26.992%
13.0	1553.555	37.591	282.705	3.115%	31.131%
14.0	1492.523	38.990	321.695	3.231%	35.425%
15.0	1429.664	40.117	361.812	3.324%	39.843%
16.0	1359.422	40.868	402.68	3.386%	44.343%
17.0	1269.675	40.942	443.622	3.392%	48.851%
18.0	1198.329	40.692	484.314	3.372%	53.332%
19.0	1110.326	40.166	524.48	3.328%	57.755%
20.0	1026.823	39.116	563.595	3.241%	62.063%
21.0	936.921	37.708	601.303	3.124%	66.215%
22.0	857.229	36.054	637.357	2.987%	70.186%
23.0	769.739	34.138	671.496	2.829%	73.945%
24.0	680.611	31.710	703.205	2.627%	77.437%
25.0	595.266	29.011	732.216	2.404%	80.631%
26.0	508.992	26.066	758.282	2.160%	83.502%
27.0	424.856	22.847	781.129	1.893%	86.018%
28.0	341.142	19.393	800.523	1.607%	88.153%
29.0	278.374	16.208	816.731	1.343%	89.938%
30.0	203.203	13.002	829.733	1.077%	91.370%
31.0	155.348	9.978	839.711	.827%	92.469%
32.0	103.261	7.409	847.12	.614%	93.285%
33.0	73.702	5.213	852.334	.432%	93.859%
34.0	53.719	3.856	856.19	.320%	94.283%
35.0	40.191	2.916	859.106	.242%	94.604%
36.0	32.309	2.308	861.415	.191%	94.859%
37.0	27.513	1.951	863.366	.162%	95.073%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	24.223	1.727	865.092	.143%	95.264%
39.0	21.902	1.574	866.667	.130%	95.437%
40.0	20.377	1.475	868.141	.122%	95.599%
41.0	19.146	1.407	869.549	.117%	95.754%
42.0	18.098	1.353	870.902	.112%	95.903%
43.0	17.184	1.307	872.209	.108%	96.047%
44.0	16.404	1.268	873.477	.105%	96.187%
45.0	15.694	1.234	874.71	.102%	96.323%
46.0	15.026	1.201	875.912	.100%	96.455%
47.0	14.407	1.171	877.082	.097%	96.584%
48.0	13.880	1.143	878.226	.095%	96.710%
49.0	13.352	1.118	879.344	.093%	96.833%
50.0	12.825	1.091	880.435	.090%	96.953%
51.0	12.382	1.066	881.502	.088%	97.071%
52.0	11.925	1.043	882.545	.086%	97.186%
53.0	11.475	1.018	883.563	.084%	97.298%
54.0	11.067	0.994	884.556	.082%	97.407%
55.0	10.652	0.970	885.526	.080%	97.514%
56.0	10.259	0.945	886.471	.078%	97.618%
57.0	9.851	0.919	887.39	.076%	97.719%
58.0	9.464	0.893	888.283	.074%	97.817%
59.0	9.105	0.868	889.152	.072%	97.913%
60.0	8.747	0.843	889.995	.070%	98.006%
61.0	8.388	0.818	890.813	.068%	98.096%
62.0	8.079	0.793	891.606	.066%	98.183%
63.0	7.755	0.770	892.376	.064%	98.268%
64.0	7.467	0.747	893.123	.062%	98.350%
65.0	7.200	0.726	893.849	.060%	98.430%
66.0	6.947	0.706	894.555	.058%	98.508%
67.0	6.708	0.687	895.242	.057%	98.584%
68.0	6.483	0.668	895.91	.055%	98.657%
69.0	6.265	0.650	896.56	.054%	98.729%
70.0	6.089	0.634	897.195	.053%	98.799%
71.0	5.927	0.621	897.816	.051%	98.867%
72.0	5.773	0.608	898.424	.050%	98.934%
73.0	5.611	0.595	899.019	.049%	99.000%
74.0	5.491	0.584	899.603	.048%	99.064%
75.0	5.365	0.574	900.177	.048%	99.127%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.259	0.564	900.74	.047%	99.189%
77.0	5.168	0.556	901.296	.046%	99.250%
78.0	5.084	0.549	901.845	.045%	99.311%
79.0	5.013	0.543	902.388	.045%	99.371%
80.0	4.964	0.538	902.926	.045%	99.430%
81.0	4.929	0.535	903.461	.044%	99.489%
82.0	4.950	0.536	903.996	.044%	99.548%
83.0	4.922	0.537	904.533	.044%	99.607%
84.0	4.901	0.535	905.068	.044%	99.666%
85.0	4.880	0.534	905.602	.044%	99.725%
86.0	4.816	0.530	906.132	.044%	99.783%
87.0	4.535	0.512	906.644	.042%	99.839%
88.0	4.437	0.491	907.135	.041%	99.893%
89.0	4.416	0.485	907.62	.040%	99.947%
90.0	4.395	0.483	908.103	.040%	100.000%

Zonal flux distribution table

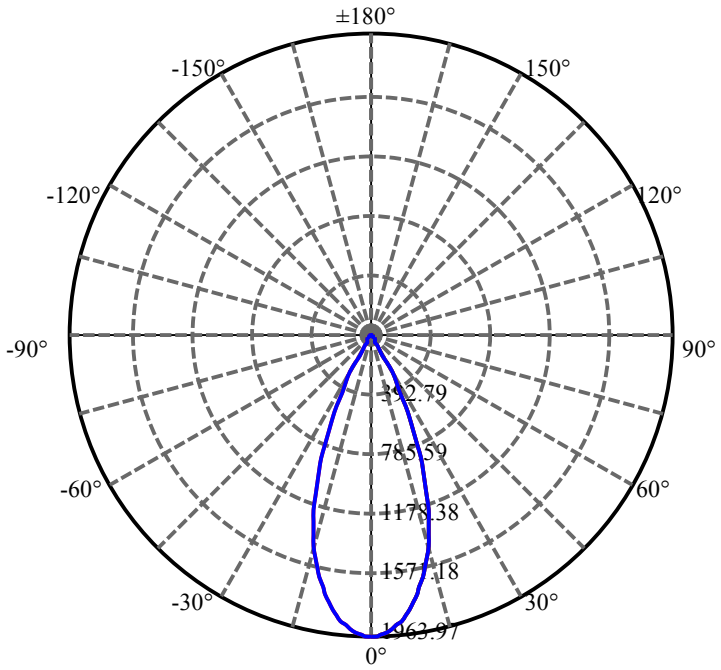
ZONAL LUMEN SUMMARY

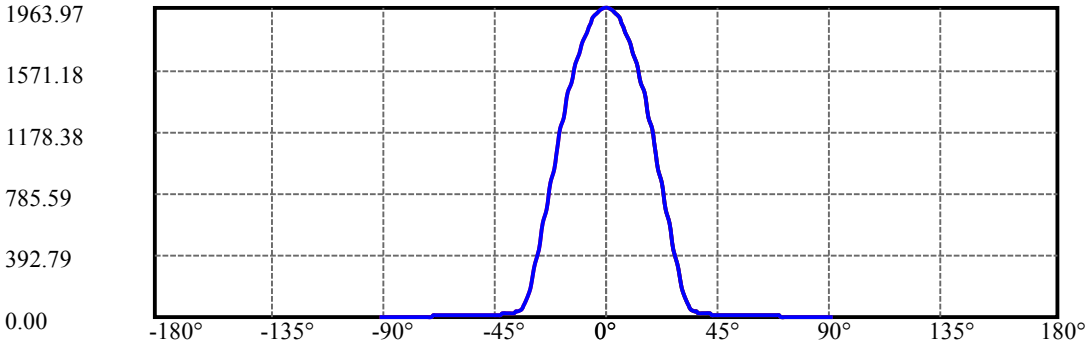
Zone	Lumens	%Lamp	%Fixt
0-30	829.73	68.75%	91.37%
0-40	868.14	71.93%	95.60%
0-60	889.99	73.75%	98.01%
0-90	907.62	75.21%	99.95%
0-120	907.62	75.21%	99.95%
0-180	908.10	75.25%	100.00%
60-90	18.47	1.53%	2.03%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-24.80	726.48	60.20%	80.00%

ZONAL LUMEN SUMMARY

0-10	175.47
10-20	388.12
20-30	266.14
30-40	38.41
40-50	12.29
50-60	9.56
60-70	7.20
70-80	5.73
80-90	4.69
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:

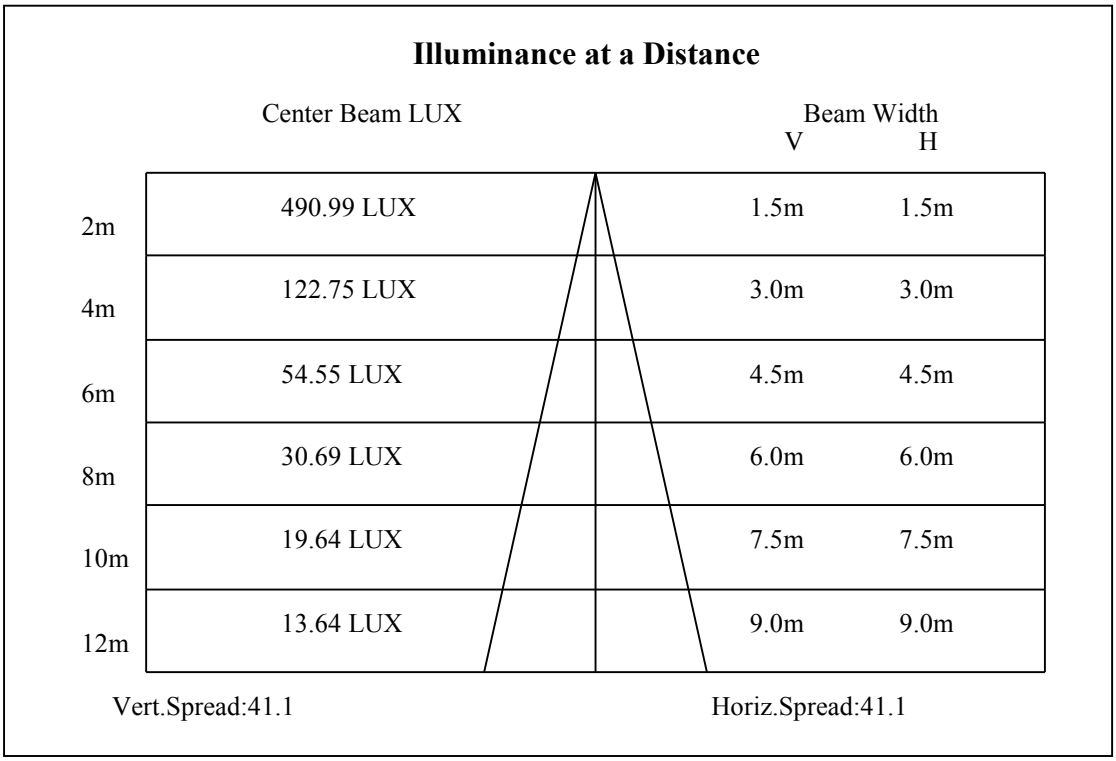
C90/C270:

Field angle(10%Imax):C0/180Left:30.1 Right:30.1
:C90/270Left:30.1 Right:30.1

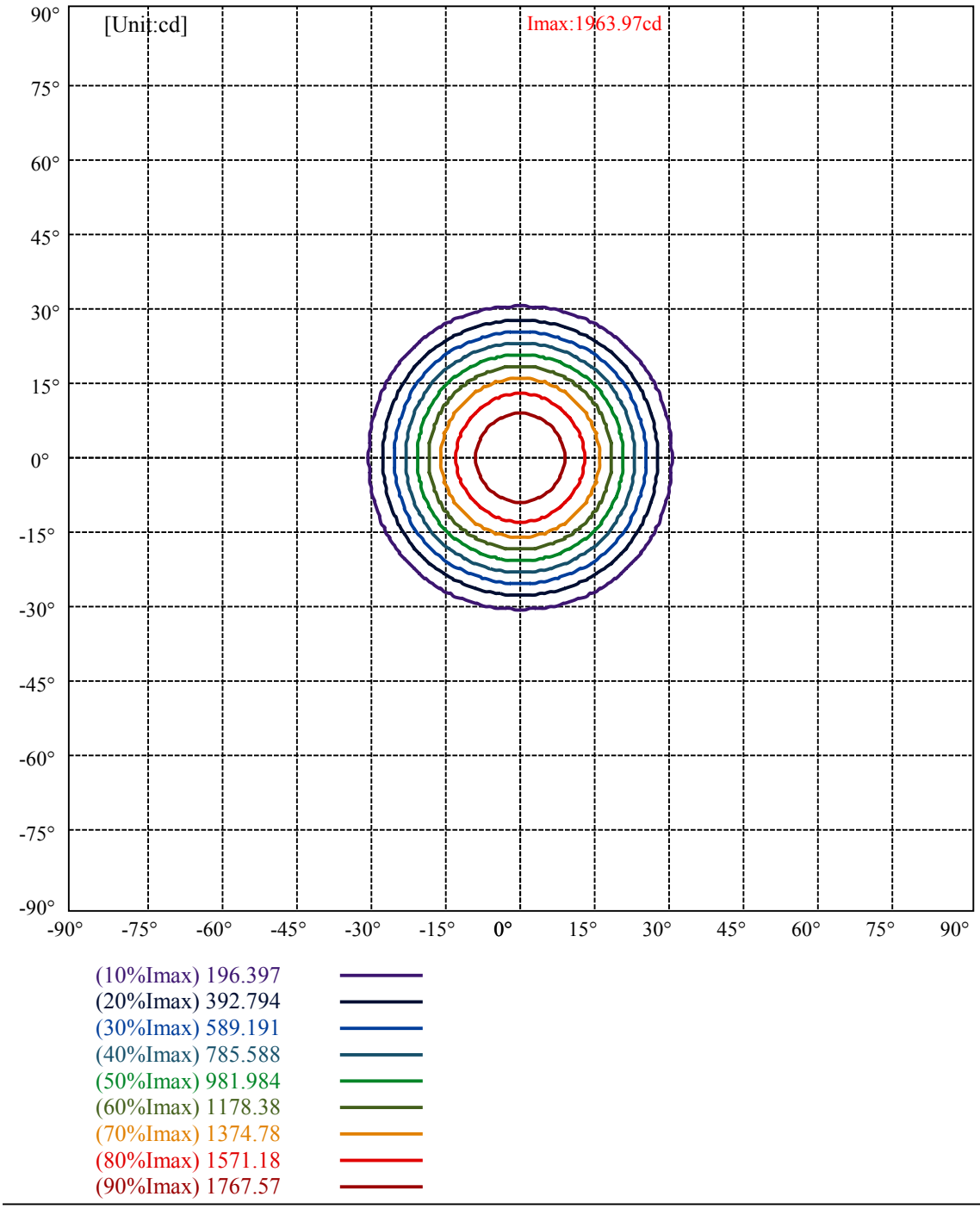
Beam Angle(50%Imax):C0/180Left:20.5 Right:20.5
:C90/270Left:20.5 Right:20.5

Equipment: GMS1980 Date: 2020/7/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Lux distance Curve



ISO-Intensity(V-H)



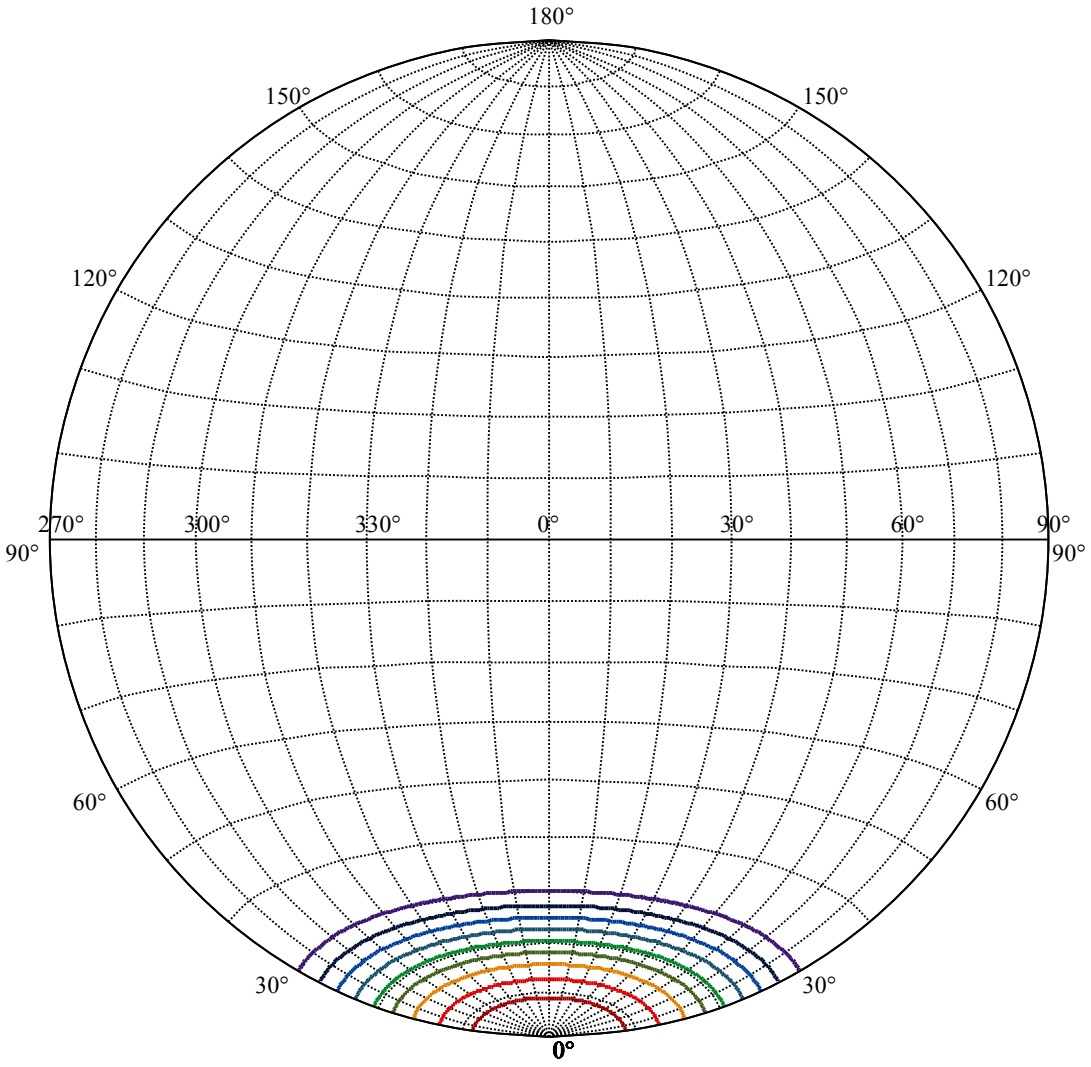
(10%Imax) 196.397
(20%Imax) 392.794
(30%Imax) 589.191
(40%Imax) 785.588
(50%Imax) 981.984
(60%Imax) 1178.38
(70%Imax) 1374.78
(80%Imax) 1571.18
(90%Imax) 1767.57

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/7/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

ISO candela diagram on circular web



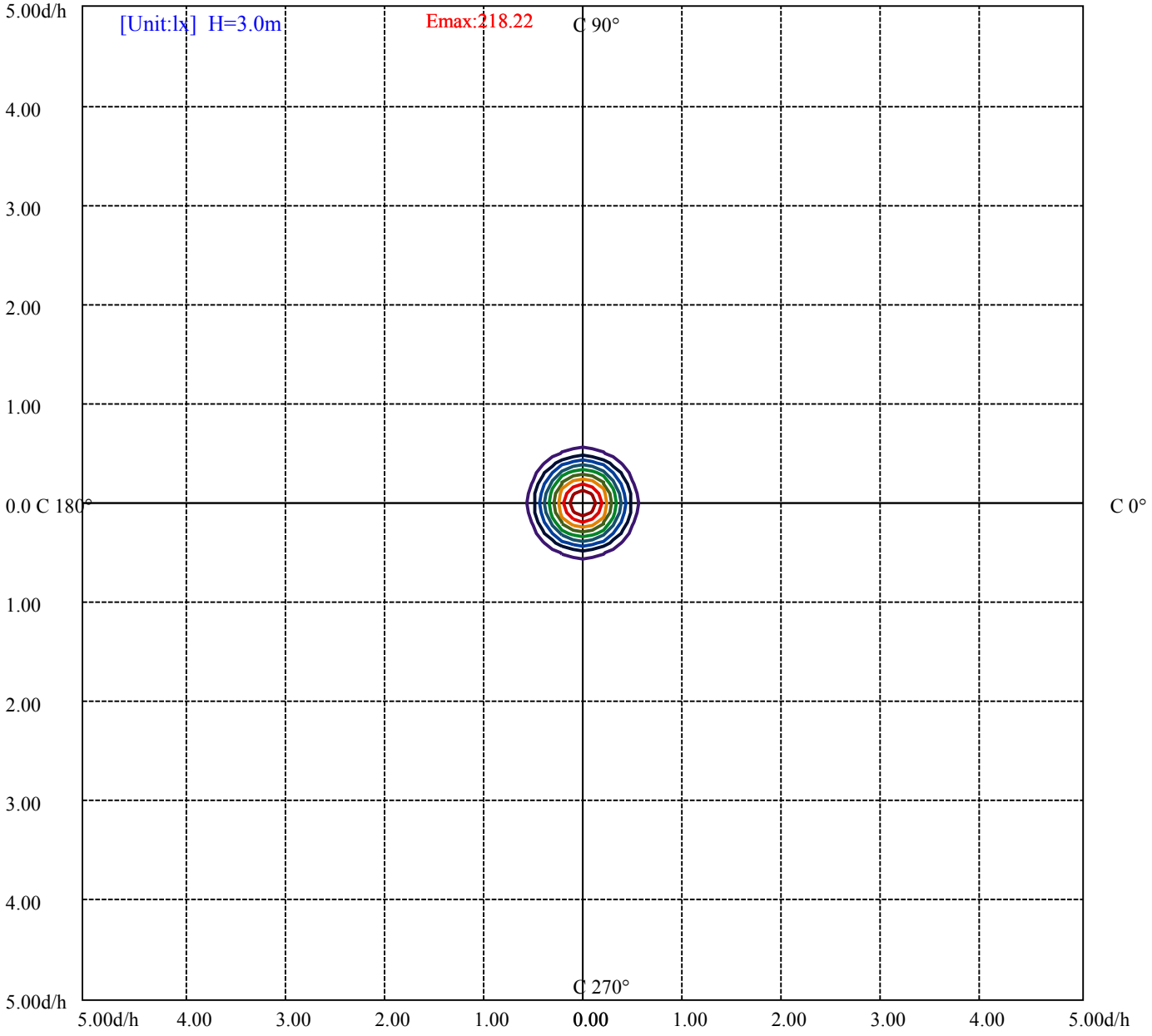
House [Unit:cd] Road

Imax:1963.97

(10%Imax) 196.397
(20%Imax) 392.794
(30%Imax) 589.191
(40%Imax) 785.588
(50%Imax) 981.984
(60%Imax) 1178.38
(70%Imax) 1374.78
(80%Imax) 1571.18
(90%Imax) 1767.57

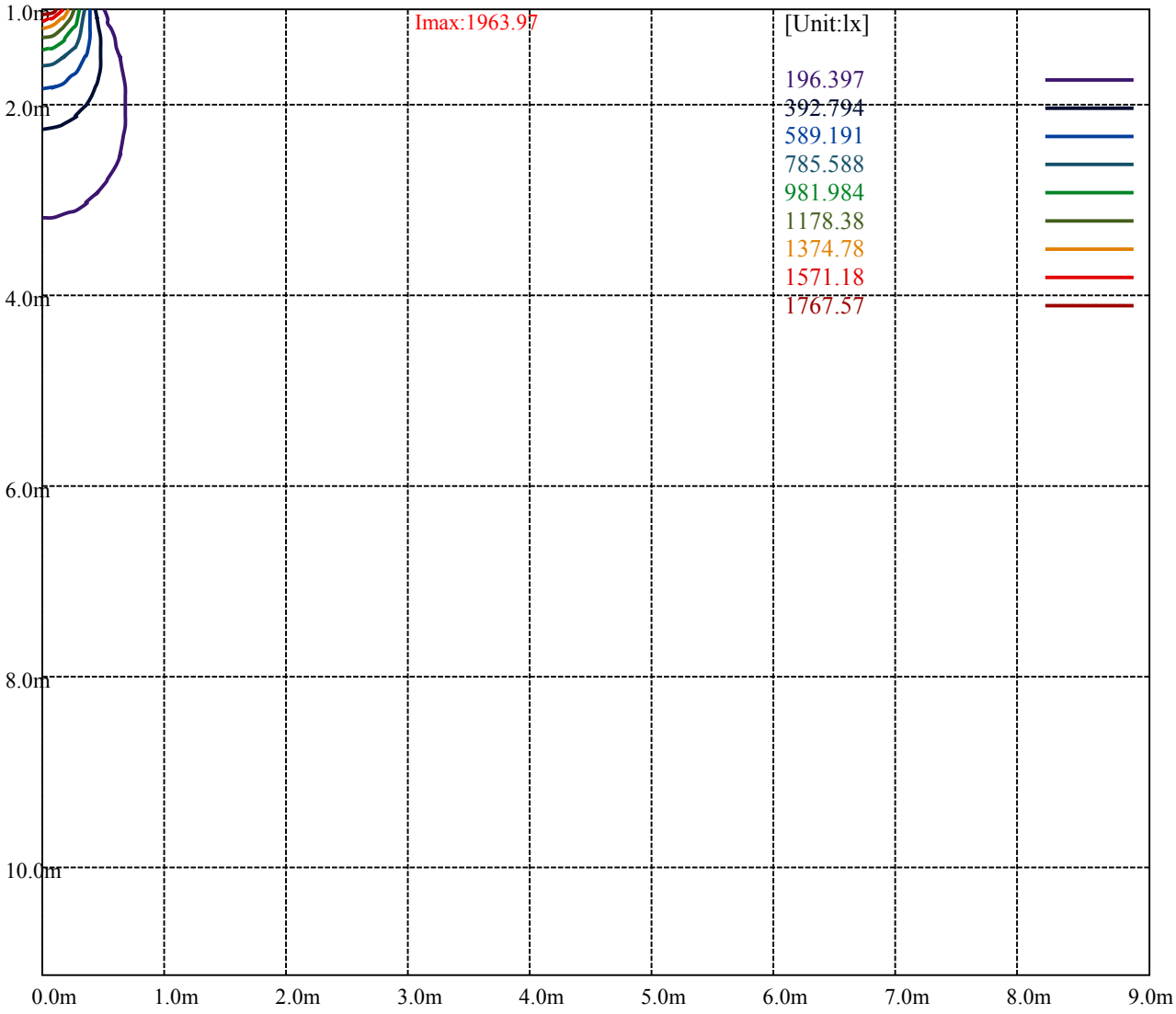
Equipment: GMS1980 Date: 2020/7/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

ISO illuminance diagram



Equipment: GMS1980	Date: 2020/7/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2020/7/30
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

Luminance Limitting Curve(no luminous side)

Luminance Table

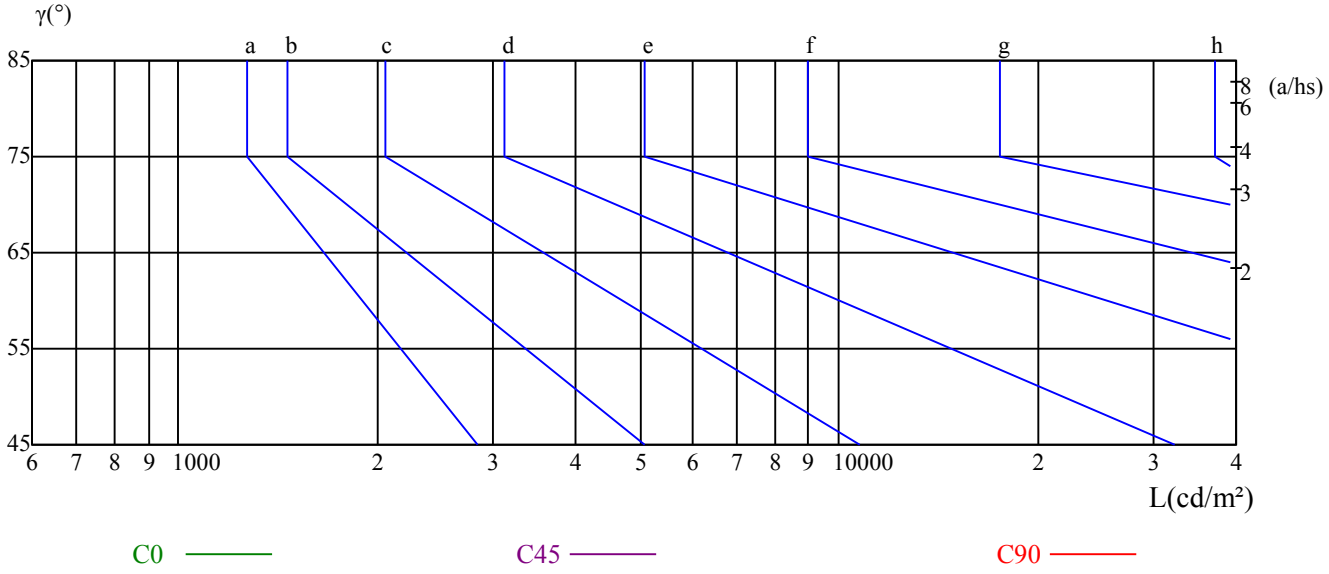
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

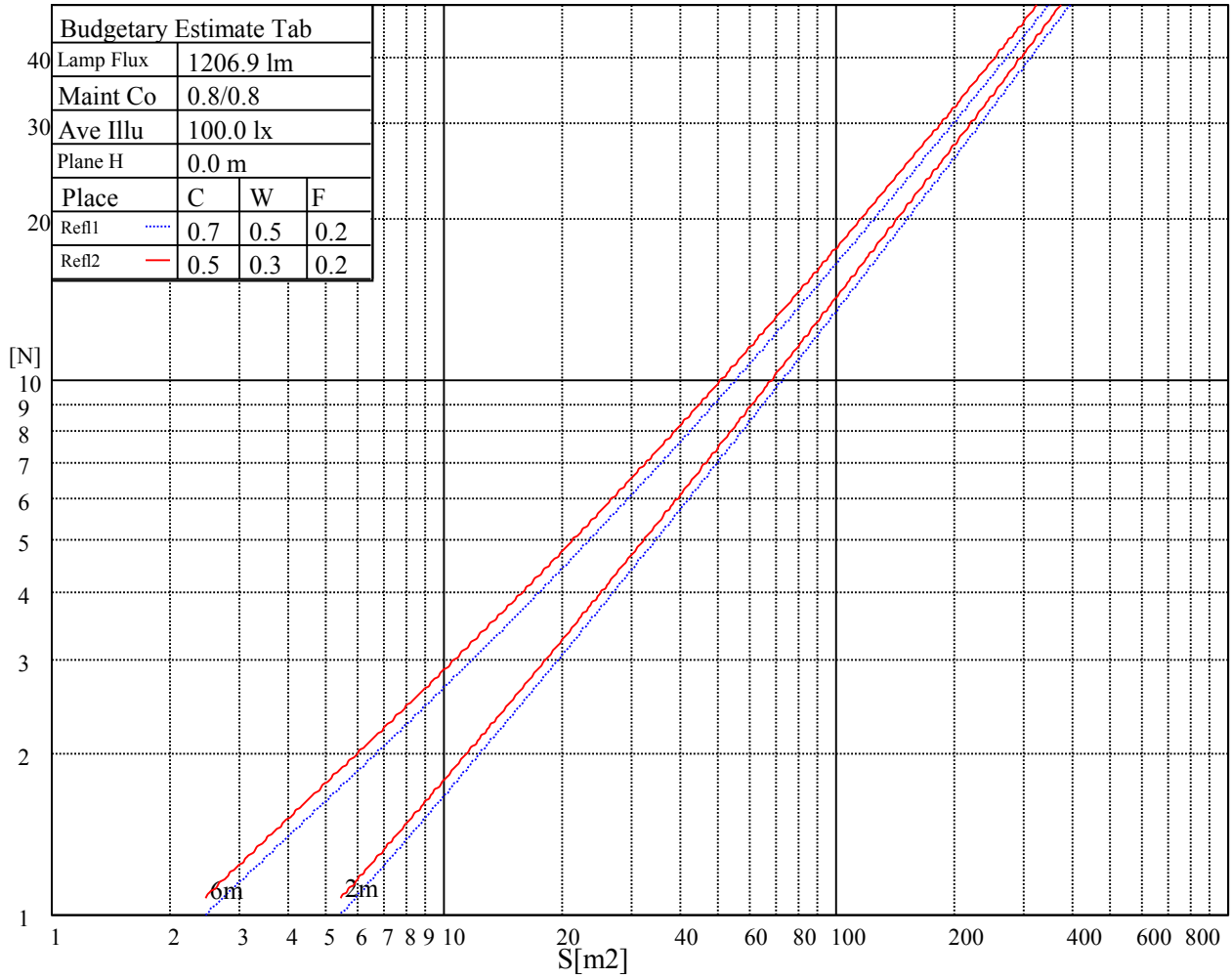
Luminance Limitting Curve



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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

Budgetary Estimate Table

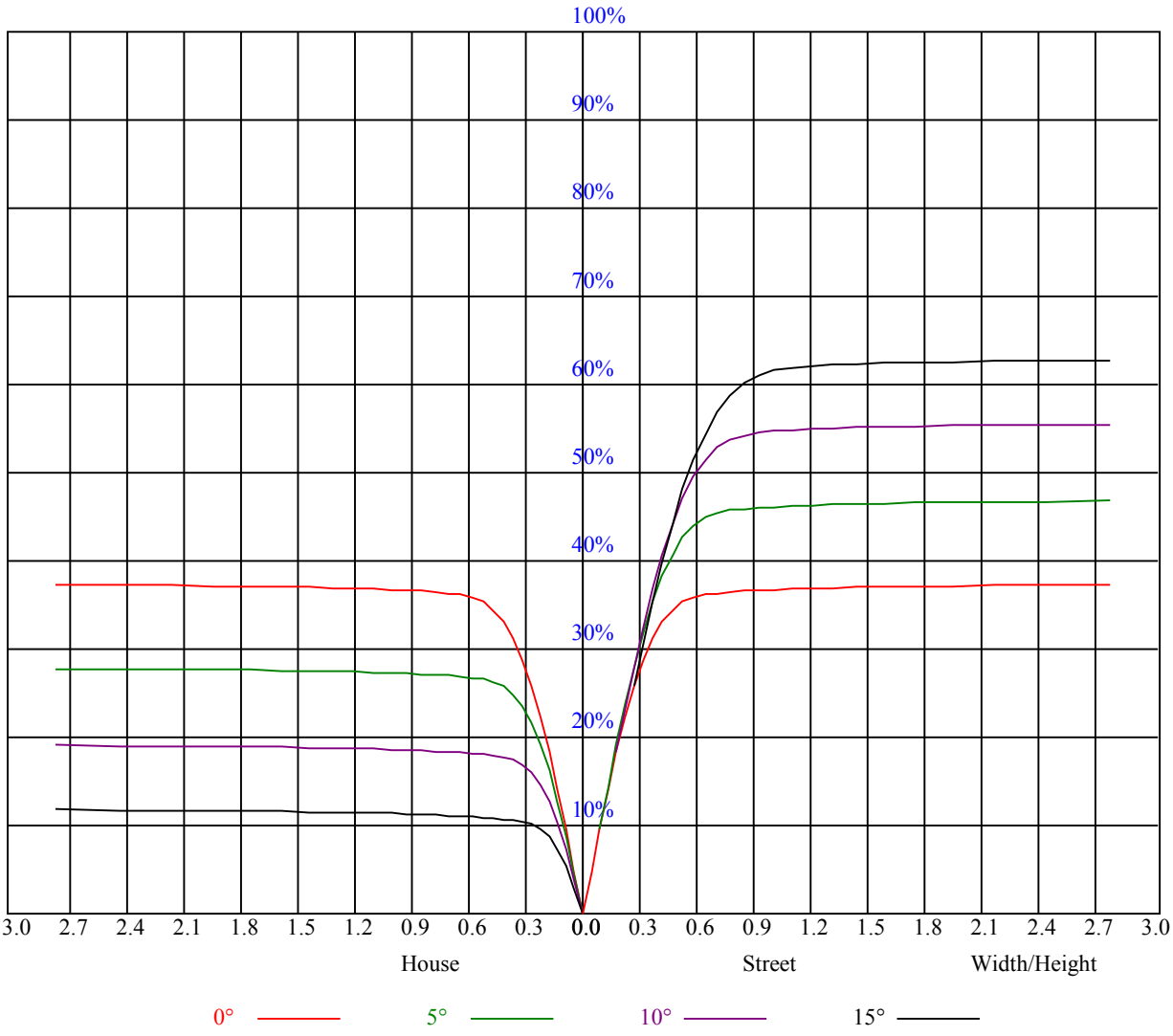


Equipment: GMS1980 Date: 2020/7/30 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 65.0% Distance(m): 7.50

Utilization factor table for indoor luminaire

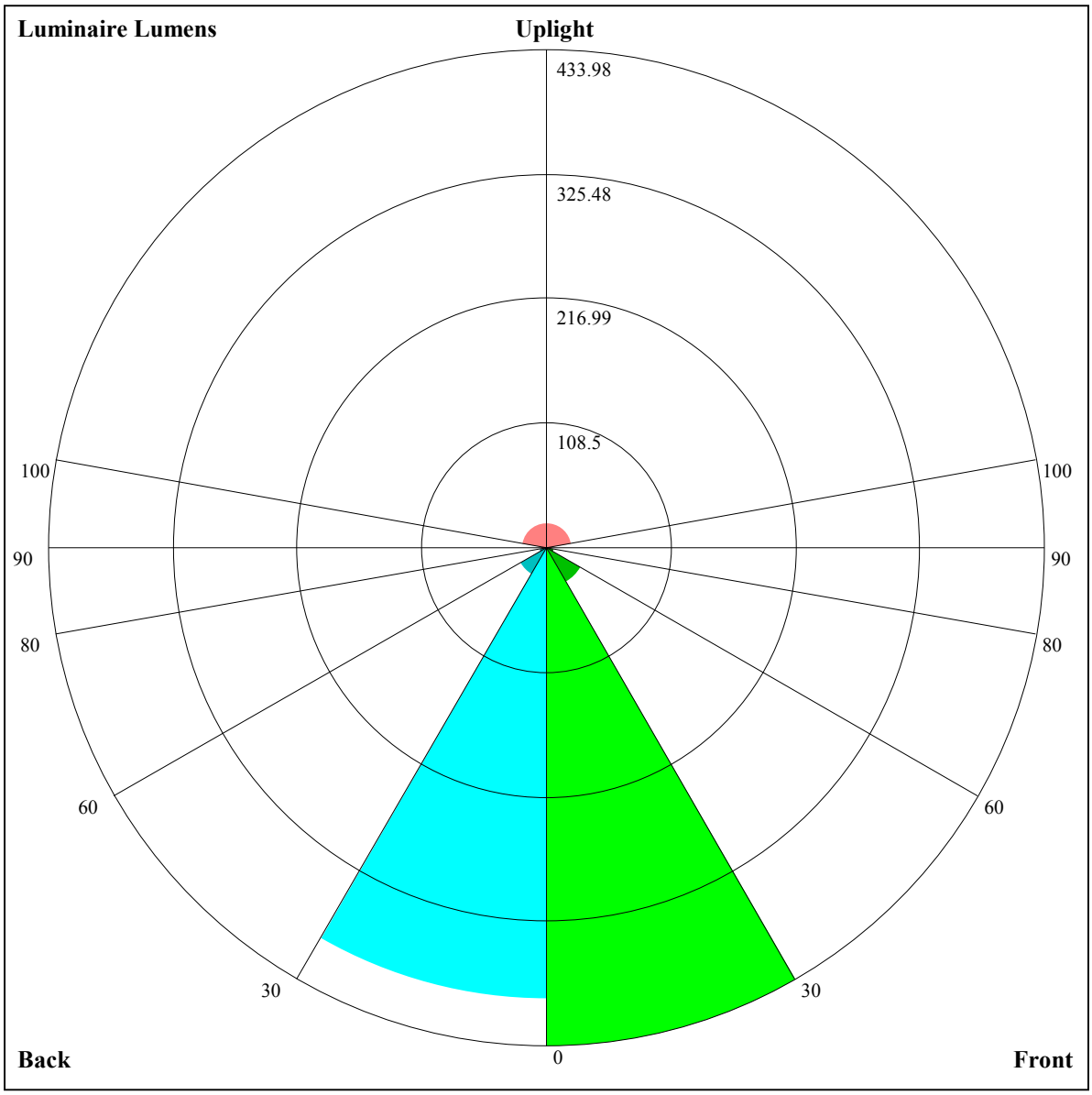
RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	0.90	0.90	0.90	0.87	0.87	0.87	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.75
1	0.84	0.82	0.81	0.82	0.81	0.79	0.79	0.78	0.77	0.76	0.75	0.75	0.74	0.73	0.72	0.71
2	0.79	0.76	0.74	0.78	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.70	0.71	0.70	0.69	0.67
3	0.75	0.72	0.69	0.74	0.71	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.68	0.67	0.65	0.64
4	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.67	0.65	0.63	0.66	0.64	0.62	0.61
5	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.63	0.61	0.59	0.58
6	0.65	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.59	0.57	0.61	0.59	0.57	0.56
7	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.56	0.54	0.53
8	0.59	0.55	0.53	0.59	0.55	0.53	0.58	0.55	0.53	0.57	0.54	0.52	0.57	0.54	0.52	0.51
9	0.57	0.53	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.55	0.52	0.50	0.55	0.52	0.50	0.49
10	0.55	0.51	0.49	0.54	0.51	0.49	0.54	0.51	0.48	0.53	0.50	0.48	0.53	0.50	0.48	0.47

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2020/7/30	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 65.0%	Distance(m): 7.50

LCS Graph



Luminaire Lumens:

FL=433.98,FM=34.19,FH=6.55,FVH=2.54

BL=393.02,BM=26.93,BH=6.38,BVH=2.6

UL=4.79,UH=22.82

BUG Rating:B1-U2-G0

Equipment: GMS1980	Date: 2020/7/30	Operator: NT07
Temperature(°C): 25.0	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	1969.88	1980.00	1981.69	1976.63	1968.75	1951.31	1928.81	1904.63	1873.69
45.0	1956.94	1965.38	1964.25	1954.13	1946.25	1930.50	1910.25	1886.63	1856.81
90.0	1951.88	1947.94	1941.75	1930.50	1915.88	1892.81	1861.88	1834.31	1798.31
135.0	1977.19	1971.00	1960.88	1946.25	1929.38	1896.19	1871.44	1839.38	1802.81
180.0	1969.88	1962.56	1943.44	1920.94	1899.00	1865.25	1825.88	1787.63	1740.94
225.0	1956.94	1947.38	1932.19	1915.31	1888.88	1860.19	1827.56	1783.69	1742.06
270.0	1951.88	1948.50	1941.75	1923.75	1909.69	1891.69	1854.00	1824.19	1794.94
315.0	1977.19	1972.13	1964.25	1955.81	1938.38	1915.88	1890.56	1852.88	1820.81
360.0	1969.88	1980.00	1981.69	1976.63	1968.75	1951.31	1928.81	1904.63	1873.69

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1838.81	1803.94	1757.25	1714.50	1659.38	1600.31	1546.31	1478.81	1406.81
45.0	1816.88	1780.88	1740.38	1691.44	1635.19	1585.13	1521.56	1455.19	1391.06
90.0	1764.00	1710.00	1666.69	1617.75	1550.81	1493.44	1434.38	1361.25	1283.06
135.0	1755.56	1711.69	1660.50	1607.63	1545.75	1480.50	1423.13	1348.31	1266.19
180.0	1694.25	1635.75	1578.94	1522.13	1459.13	1387.69	1322.44	1251.00	1116.79
225.0	1698.19	1639.69	1586.81	1531.69	1464.19	1397.81	1330.31	1249.88	1113.86
270.0	1740.94	1698.75	1656.56	1593.00	1532.81	1482.75	1405.69	1339.31	1266.75
315.0	1780.88	1734.19	1684.13	1634.06	1581.19	1512.56	1453.50	1391.63	1312.88
360.0	1838.81	1803.94	1757.25	1714.50	1659.38	1600.31	1546.31	1478.81	1406.81

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1339.31	1267.31	1167.19	1085.63	1003.50	914.63	828.56	746.44	649.69
45.0	1313.44	1238.63	1150.88	1058.06	977.06	890.44	803.81	722.81	641.25
90.0	1207.13	1114.65	1032.24	940.89	867.04	780.53	694.24	613.41	521.72
135.0	1189.13	1106.44	1014.19	925.31	848.25	757.13	660.38	574.31	493.31
180.0	1063.24	979.03	887.12	800.10	721.07	630.11	540.45	462.15	376.14
225.0	1074.21	970.88	901.58	814.11	722.53	638.55	555.02	454.95	378.34
270.0	1170.00	1088.44	1006.31	907.88	831.94	749.81	647.44	565.31	482.06
315.0	1230.19	1117.24	1055.08	963.39	886.44	796.73	714.99	622.74	529.43
360.0	1339.31	1267.31	1167.19	1085.63	1003.50	914.63	828.56	746.44	649.69

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	564.75	470.25	380.81	308.25	290.25	164.25	116.94	81.45	55.29
45.0	540.56	454.50	374.63	289.13	214.93	158.23	112.28	74.03	53.61
90.0	443.42	357.58	276.69	211.67	156.49	101.08	70.37	50.91	37.58
135.0	398.81	321.19	285.19	178.03	123.81	85.89	58.16	43.99	35.38
180.0	306.73	233.89	169.03	121.16	84.60	57.88	43.54	35.55	28.86
225.0	304.31	222.92	168.58	123.47	85.73	61.76	48.88	39.43	32.12
270.0	391.50	307.69	289.69	175.89	125.10	91.18	65.19	50.74	39.77
315.0	448.76	361.13	282.38	218.03	161.89	105.81	74.25	53.66	38.93
360.0	564.75	470.25	380.81	308.25	290.25	164.25	116.94	81.45	55.29

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	40.67	33.24	28.46	24.64	22.56	21.09	19.63	18.56	17.66
45.0	40.78	32.74	27.73	24.86	22.50	20.93	19.58	18.39	17.55
90.0	31.16	26.89	23.68	21.54	20.19	18.90	18.00	17.10	16.37
135.0	29.14	25.48	22.84	20.98	19.69	18.62	17.55	16.82	16.09
180.0	25.26	22.78	21.09	19.52	18.51	17.49	16.76	16.03	15.36
225.0	27.11	23.85	21.77	20.08	18.84	17.89	17.04	16.14	15.53
270.0	32.23	27.51	24.24	21.60	20.19	19.13	17.94	17.16	16.37
315.0	32.12	27.62	23.96	21.99	20.53	19.13	18.28	17.27	16.31
360.0	40.67	33.24	28.46	24.64	22.56	21.09	19.63	18.56	17.66

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	16.76	15.98	15.36	14.68	14.06	13.50	12.99	12.49	12.04
45.0	16.71	15.92	15.30	14.85	14.06	13.61	13.22	12.66	12.15
90.0	15.69	15.08	14.40	13.89	13.50	12.94	12.54	12.09	11.64
135.0	15.30	14.79	14.23	13.73	13.22	12.71	12.21	11.76	11.31
180.0	14.68	14.12	13.61	13.11	12.66	12.15	11.70	11.31	10.91
225.0	14.96	14.34	13.73	13.22	12.77	12.26	11.87	11.42	11.03
270.0	15.69	14.91	14.34	13.73	13.22	12.71	12.21	11.76	11.31
315.0	15.75	15.08	14.29	13.84	13.33	12.71	12.32	11.93	11.42
360.0	16.76	15.98	15.36	14.68	14.06	13.50	12.99	12.49	12.04

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.59	11.14	10.86	10.35	9.96	9.62	9.17	8.78	8.55
45.0	11.81	11.31	10.86	10.52	10.01	9.68	9.34	8.94	8.55
90.0	11.19	10.80	10.35	9.96	9.56	9.17	8.83	8.44	8.10
135.0	10.91	10.46	10.07	9.62	9.34	8.94	8.55	8.21	7.93
180.0	10.46	10.13	9.73	9.28	8.94	8.61	8.33	7.99	7.71
225.0	10.63	10.24	9.79	9.45	9.11	8.78	8.44	8.10	7.76
270.0	10.91	10.52	10.18	9.73	9.34	9.00	8.61	8.27	7.99
315.0	11.03	10.63	10.24	9.90	9.45	9.06	8.72	8.38	8.04
360.0	11.59	11.14	10.86	10.35	9.96	9.62	9.17	8.78	8.55

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.10	7.82	7.59	7.26	7.03	6.81	6.53	6.30	6.13
45.0	8.21	7.88	7.59	7.31	7.03	6.81	6.58	6.36	6.19
90.0	7.82	7.48	7.20	6.98	6.69	6.47	6.24	6.08	5.91
135.0	7.59	7.31	7.09	6.81	6.53	6.36	6.13	5.96	5.79
180.0	7.37	7.09	6.86	6.64	6.41	6.24	6.02	5.85	5.74
225.0	7.54	7.31	7.03	6.81	6.64	6.36	6.24	6.08	5.96
270.0	7.65	7.37	7.09	6.86	6.64	6.41	6.19	6.02	5.85
315.0	7.76	7.48	7.14	6.92	6.69	6.41	6.19	6.08	5.85
360.0	8.10	7.82	7.59	7.26	7.03	6.81	6.53	6.30	6.13

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.96	5.79	5.63	5.51	5.34	5.29	5.18	5.06	4.95
45.0	6.02	5.85	5.68	5.57	5.46	5.34	5.29	5.18	5.06
90.0	5.74	5.57	5.40	5.29	5.18	5.06	4.89	4.84	4.78
135.0	5.68	5.46	5.40	5.23	5.12	5.06	4.89	4.78	4.78
180.0	5.57	5.46	5.40	5.18	5.12	5.01	5.01	5.01	4.95
225.0	5.85	5.74	5.63	5.57	5.51	5.46	5.46	5.46	5.46
270.0	5.68	5.51	5.40	5.29	5.18	5.06	5.01	4.89	4.89
315.0	5.68	5.51	5.40	5.29	5.18	5.06	4.95	4.89	4.84
360.0	5.96	5.79	5.63	5.51	5.34	5.29	5.18	5.06	4.95

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.89	4.89	4.78	4.73	4.73	4.67	4.67	4.50	4.50
45.0	5.01	4.95	4.95	4.89	4.84	5.01	4.84	4.56	4.50
90.0	4.73	4.61	4.61	4.56	4.56	4.50	4.44	4.39	4.33
135.0	4.73	4.67	4.61	4.56	4.56	4.50	4.44	4.39	4.39
180.0	4.89	4.95	4.84	4.73	4.67	4.56	4.44	4.39	4.39
225.0	5.57	6.02	6.13	6.41	6.41	6.19	4.50	4.44	4.44
270.0	4.84	4.78	4.73	4.67	4.61	4.56	4.44	4.39	4.39
315.0	4.78	4.73	4.73	4.67	4.67	4.56	4.50	4.44	4.39
360.0	4.89	4.89	4.78	4.73	4.73	4.67	4.67	4.50	4.50

Intensity data(cd)

C/γ(°)	90.0
0.0	4.44
45.0	4.44
90.0	4.33
135.0	4.39
180.0	4.39
225.0	4.44
270.0	4.33
315.0	4.39
360.0	4.44