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

NT

Client:
LumCAT: 3-2805-L
Luminaire: 92.70.412.00
Report No: 2024228-B009
Ballast type: AC

Test No: 2024228-C009	Voltage(V): 35.640
LampCAT: CITIZEN CLU038 LES14.5	Current(A): 0.541
Lamp flux(lm): 2613.0	Power (W): 19.281
Number of Lamps: 1	PF: 0.000
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 2267.63, Efficiency(%): 86.78% , Luminous Efficacy(lm/W): 117.61
Central intensity(cd): 10039.160, Maximum intensity(cd): 10039.160
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=17.8
[C90/270]Total=17.8
Field angle(10%Imax): [C0/180]Total=53.0
[C90/270]Total=53.0
Maximum s/h(1/2): C0_180=0.30 C90_270=0.30
Maximum s/h(1/4): C0_180=0.38 C90_270=0.38
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 86.78%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.740%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10039.154	0.000	0	0.00%	0.00%
1.0	9944.055	9.562	9.562	0.37%	0.42%
2.0	9630.375	28.095	37.657	1.08%	1.66%
3.0	9147.272	44.910	82.567	1.72%	3.64%
4.0	8472.507	58.979	141.546	2.26%	6.24%
5.0	7764.239	69.850	211.395	2.67%	9.32%
6.0	7001.764	77.599	288.995	2.97%	12.74%
7.0	6301.688	82.574	371.569	3.16%	16.39%
8.0	5592.322	85.123	456.692	3.26%	20.14%
9.0	4975.422	85.646	542.338	3.28%	23.92%
10.0	4472.348	85.499	627.837	3.27%	27.69%
11.0	4043.305	85.089	712.926	3.26%	31.44%
12.0	3669.931	84.317	797.242	3.23%	35.16%
13.0	3329.404	83.064	880.307	3.18%	38.82%
14.0	3056.103	81.734	962.041	3.13%	42.43%
15.0	2805.335	80.468	1042.509	3.08%	45.97%
16.0	2572.634	78.802	1121.311	3.02%	49.45%
17.0	2359.759	76.811	1198.122	2.94%	52.84%
18.0	2165.976	74.620	1272.742	2.86%	56.13%
19.0	2001.309	72.502	1345.244	2.77%	59.32%
20.0	1848.419	70.461	1415.705	2.70%	62.43%
21.0	1679.289	67.739	1483.444	2.59%	65.42%
22.0	1506.296	64.016	1547.459	2.45%	68.24%
23.0	1380.897	60.581	1608.04	2.32%	70.91%
24.0	1245.198	57.416	1665.456	2.20%	73.44%
25.0	1149.931	54.460	1719.916	2.08%	75.85%
26.0	1050.245	51.935	1771.852	1.99%	78.14%
27.0	954.582	49.049	1820.9	1.88%	80.30%
28.0	874.268	46.303	1867.203	1.77%	82.34%
29.0	792.709	43.613	1910.816	1.67%	84.27%
30.0	697.171	40.226	1951.042	1.54%	86.04%
31.0	606.183	36.270	1987.313	1.39%	87.64%
32.0	514.157	32.096	2019.409	1.23%	89.05%
33.0	419.679	27.511	2046.92	1.05%	90.27%
34.0	325.714	22.558	2069.478	0.86%	91.26%
35.0	260.250	18.198	2087.676	0.70%	92.06%
36.0	203.951	14.780	2102.456	0.57%	92.72%
37.0	149.584	11.530	2113.986	0.44%	93.22%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	102.246	8.406	2122.392	0.32%	93.60%
39.0	89.349	6.540	2128.932	0.25%	93.88%
40.0	82.319	5.987	2134.919	0.23%	94.15%
41.0	77.016	5.674	2140.593	0.22%	94.40%
42.0	72.524	5.433	2146.026	0.21%	94.64%
43.0	67.857	5.200	2151.226	0.20%	94.87%
44.0	63.482	4.957	2156.183	0.19%	95.09%
45.0	59.525	4.727	2160.91	0.18%	95.29%
46.0	55.948	4.516	2165.426	0.17%	95.49%
47.0	52.568	4.316	2169.742	0.17%	95.68%
48.0	49.817	4.139	2173.881	0.16%	95.87%
49.0	47.213	3.985	2177.866	0.15%	96.04%
50.0	45.077	3.848	2181.714	0.15%	96.21%
51.0	43.116	3.731	2185.445	0.14%	96.38%
52.0	41.639	3.637	2189.082	0.14%	96.54%
53.0	40.490	3.573	2192.654	0.14%	96.69%
54.0	39.473	3.524	2196.179	0.13%	96.85%
55.0	38.720	3.490	2199.669	0.13%	97.00%
56.0	37.864	3.461	2203.13	0.13%	97.16%
57.0	37.023	3.424	2206.554	0.13%	97.31%
58.0	35.896	3.372	2209.926	0.13%	97.46%
59.0	34.419	3.287	2213.213	0.13%	97.60%
60.0	32.495	3.161	2216.374	0.12%	97.74%
61.0	30.249	2.994	2219.369	0.11%	97.87%
62.0	28.054	2.809	2222.178	0.11%	98.00%
63.0	25.508	2.605	2224.783	0.10%	98.11%
64.0	23.460	2.403	2227.186	0.09%	98.22%
65.0	21.573	2.229	2229.415	0.09%	98.31%
66.0	20.015	2.075	2231.49	0.08%	98.41%
67.0	18.778	1.951	2233.44	0.07%	98.49%
68.0	17.901	1.858	2235.298	0.07%	98.57%
69.0	17.469	1.804	2237.103	0.07%	98.65%
70.0	17.220	1.782	2238.884	0.07%	98.73%
71.0	17.015	1.769	2240.654	0.07%	98.81%
72.0	16.796	1.758	2242.412	0.07%	98.89%
73.0	16.555	1.744	2244.156	0.07%	98.96%
74.0	16.262	1.725	2245.881	0.07%	99.04%
75.0	15.918	1.700	2247.581	0.07%	99.12%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.582	1.672	2249.253	0.06%	99.19%
77.0	15.121	1.637	2250.89	0.06%	99.26%
78.0	14.682	1.595	2252.486	0.06%	99.33%
79.0	14.097	1.546	2254.032	0.06%	99.40%
80.0	13.431	1.484	2255.516	0.06%	99.47%
81.0	12.773	1.417	2256.933	0.05%	99.53%
82.0	12.239	1.356	2258.289	0.05%	99.59%
83.0	11.639	1.298	2259.587	0.05%	99.65%
84.0	11.214	1.245	2260.832	0.05%	99.70%
85.0	10.827	1.203	2262.035	0.05%	99.75%
86.0	10.527	1.167	2263.203	0.04%	99.80%
87.0	10.278	1.139	2264.341	0.04%	99.86%
88.0	10.037	1.113	2265.454	0.04%	99.90%
89.0	9.883	1.092	2266.546	0.04%	99.95%
90.0	9.817	1.080	2267.626	0.04%	100.00%

Zonal flux distribution table

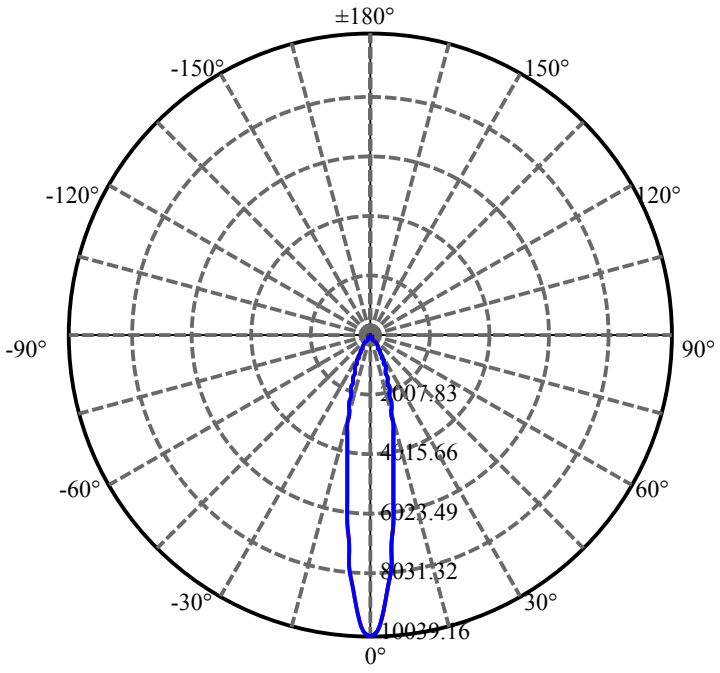
ZONAL LUMEN SUMMARY

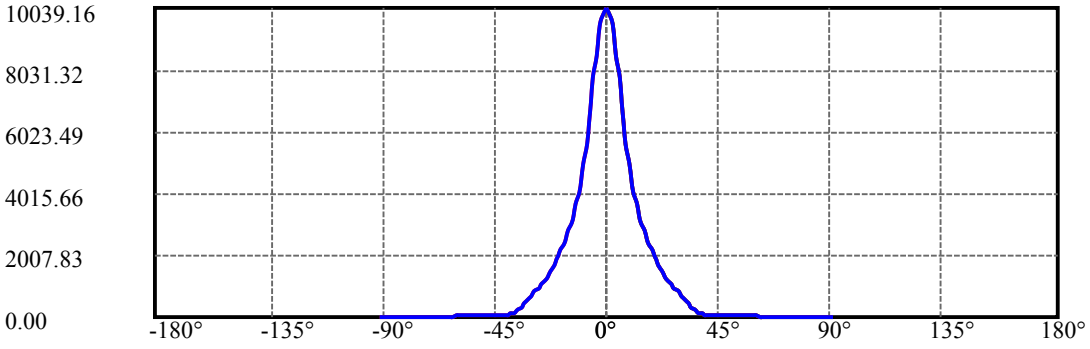
Zone	Lumens	%Lamp	%Fixt
0-30	1951.04	74.67%	86.04%
0-40	2134.92	81.70%	94.15%
0-60	2216.37	84.82%	97.74%
0-90	2266.55	86.74%	99.95%
0-120	2266.55	86.74%	99.95%
0-180	2267.63	86.78%	100.00%
60-90	50.17	1.92%	2.21%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.86	1814.10	69.43%	80.00%

ZONAL LUMEN SUMMARY

0-10	627.84
10-20	787.87
20-30	535.34
30-40	183.88
40-50	46.79
50-60	34.66
60-70	22.51
70-80	16.63
80-90	11.03
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):

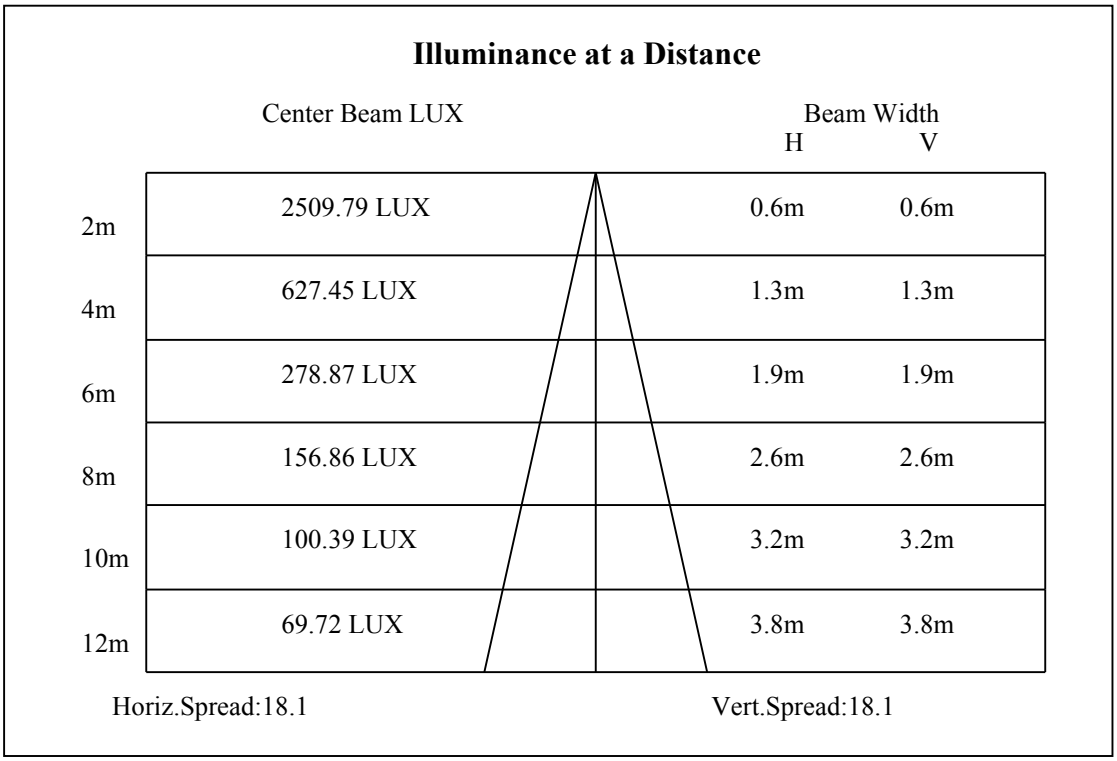
C0/C180:

C90/C270:

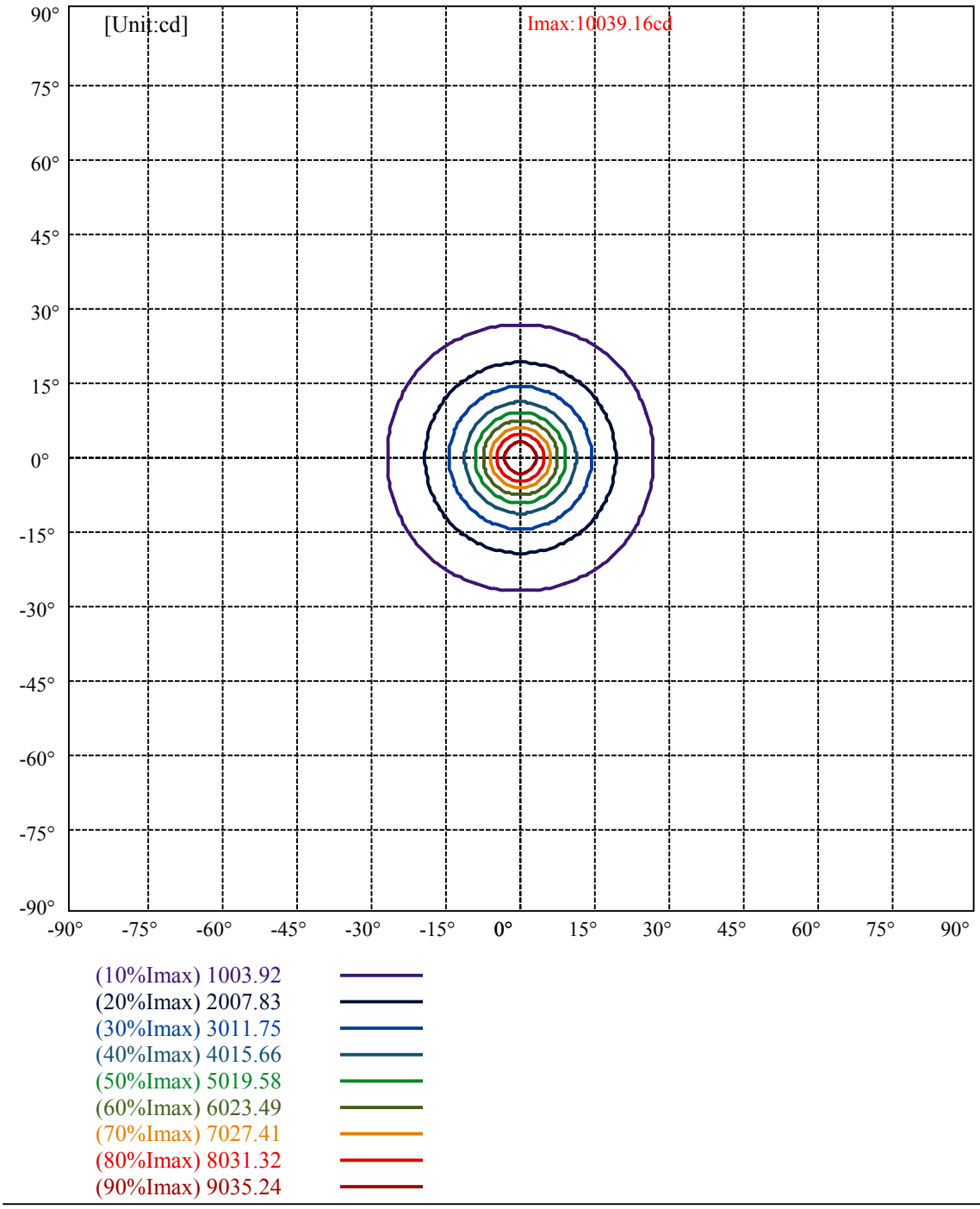
Field angle(10%Imax):C0/180Left:26.5 Right:26.5
:C90/270Left:26.5 Right:26.5

Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9
:C90/270Left:8.9 Right:8.9

Lux distance Curve



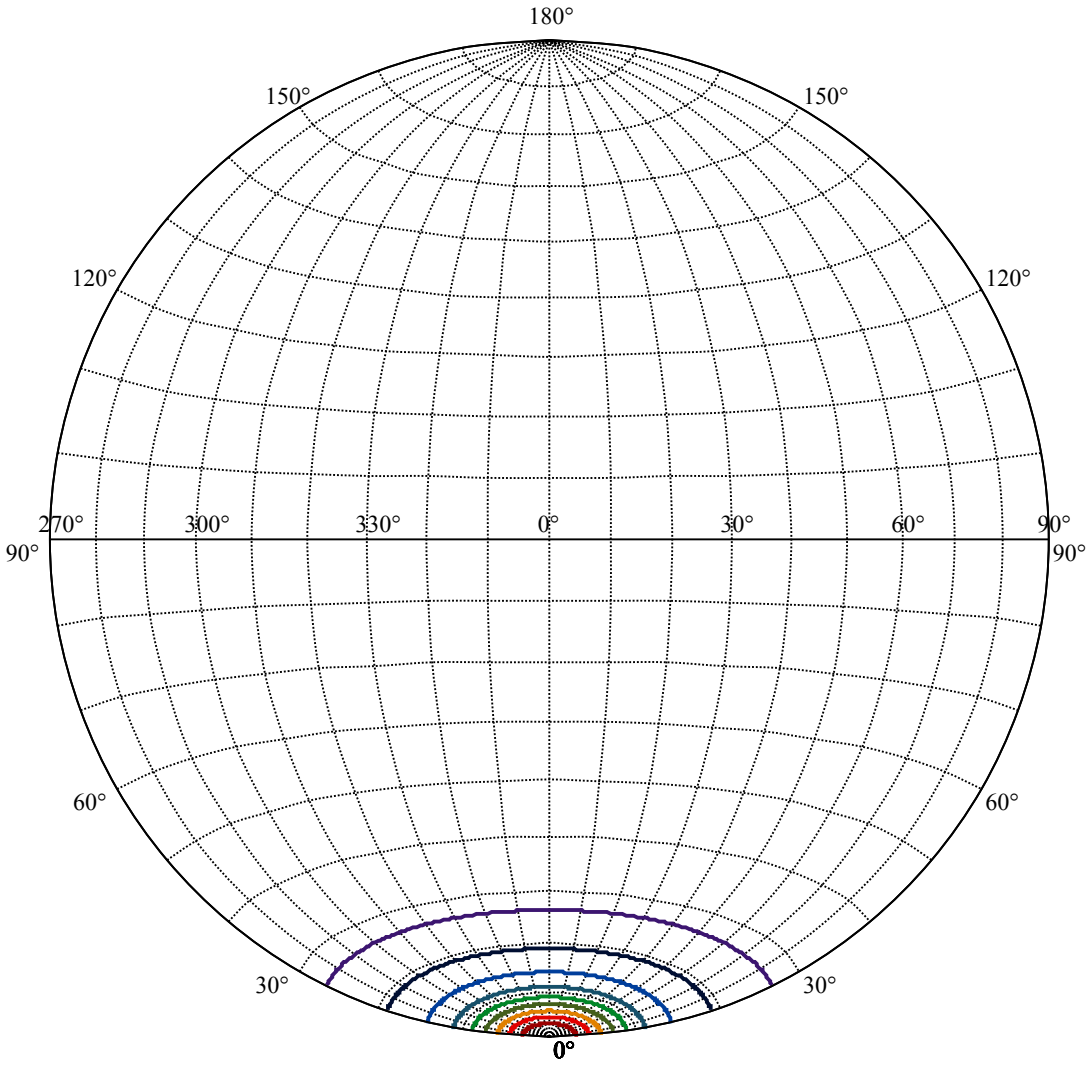
ISO-Intensity(V-H)



Equipment: GMS1980 Date: 2024/2/28 Operator: NT07

Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

ISO candela diagram on circular web



House [Unit:cd] Road

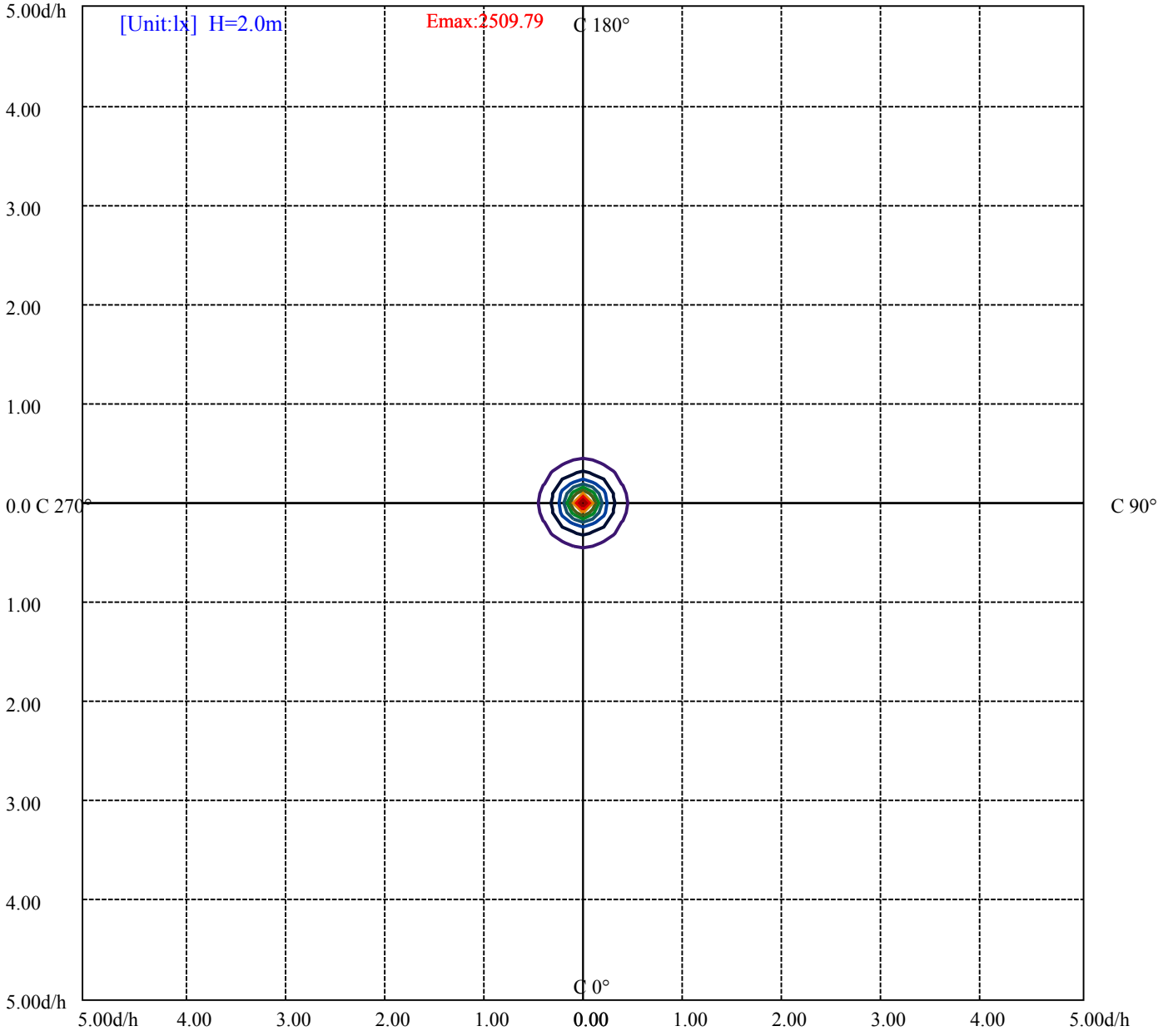
Imax:10039.16

(10%Imax) 1003.92
(20%Imax) 2007.83
(30%Imax) 3011.75
(40%Imax) 4015.66
(50%Imax) 5019.58
(60%Imax) 6023.49
(70%Imax) 7027.41
(80%Imax) 8031.32
(90%Imax) 9035.24

Equipment: GMS1980	Date: 2024/2/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65

NT 3-2805-L

ISO illuminance diagram



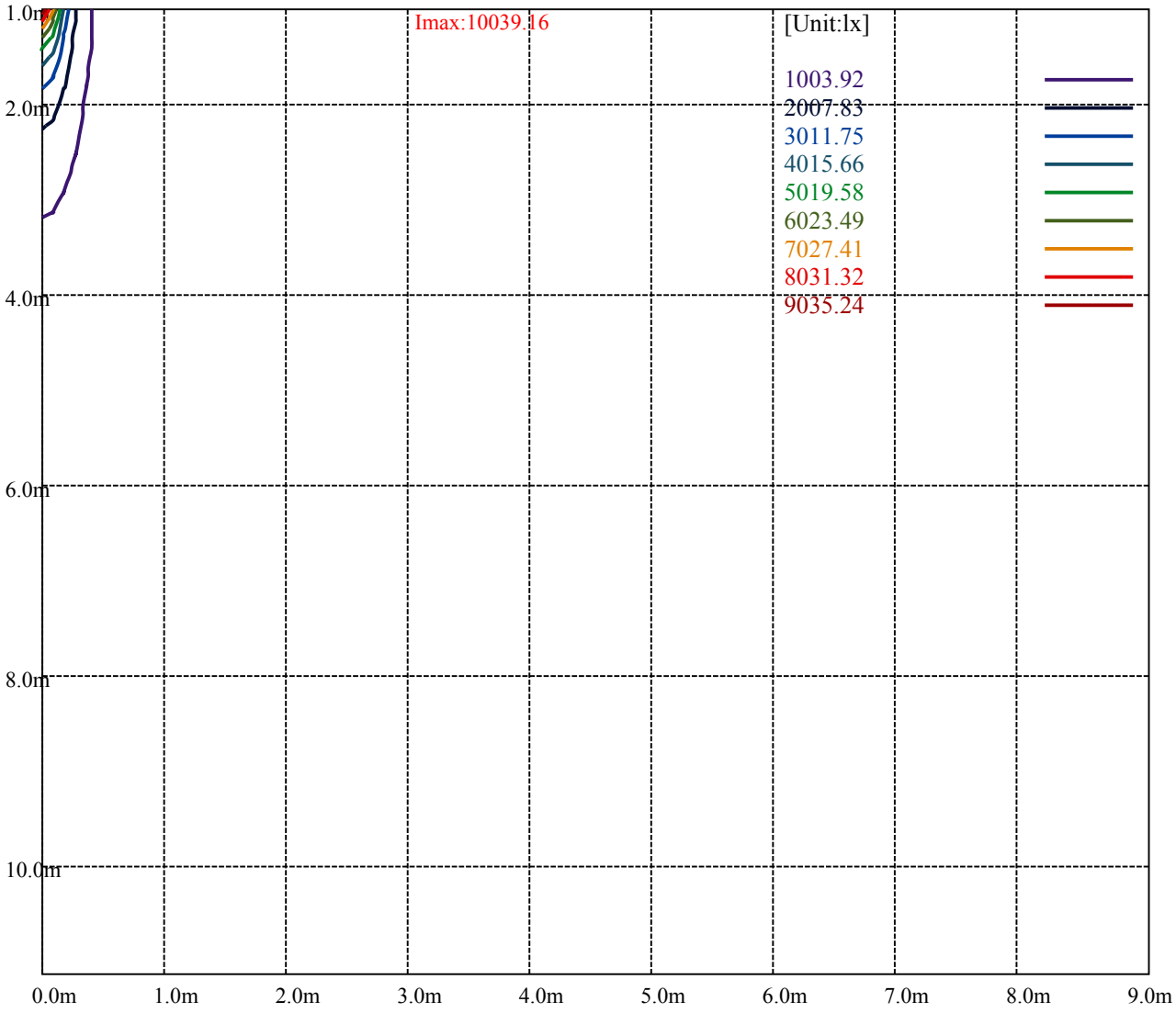
(10%Emax) 250.9775
(20%Emax) 501.9575
(30%Emax) 752.935
(40%Emax) 1003.915
(50%Emax) 1254.892
(60%Emax) 1505.87
(70%Emax) 1756.85
(80%Emax) 2007.828
(90%Emax) 2258.808

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

Space ISO Lux diagram



Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/2/28
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

NT 3-2805-L

Luminance Limitting Curve(no luminous side)

Luminance Table

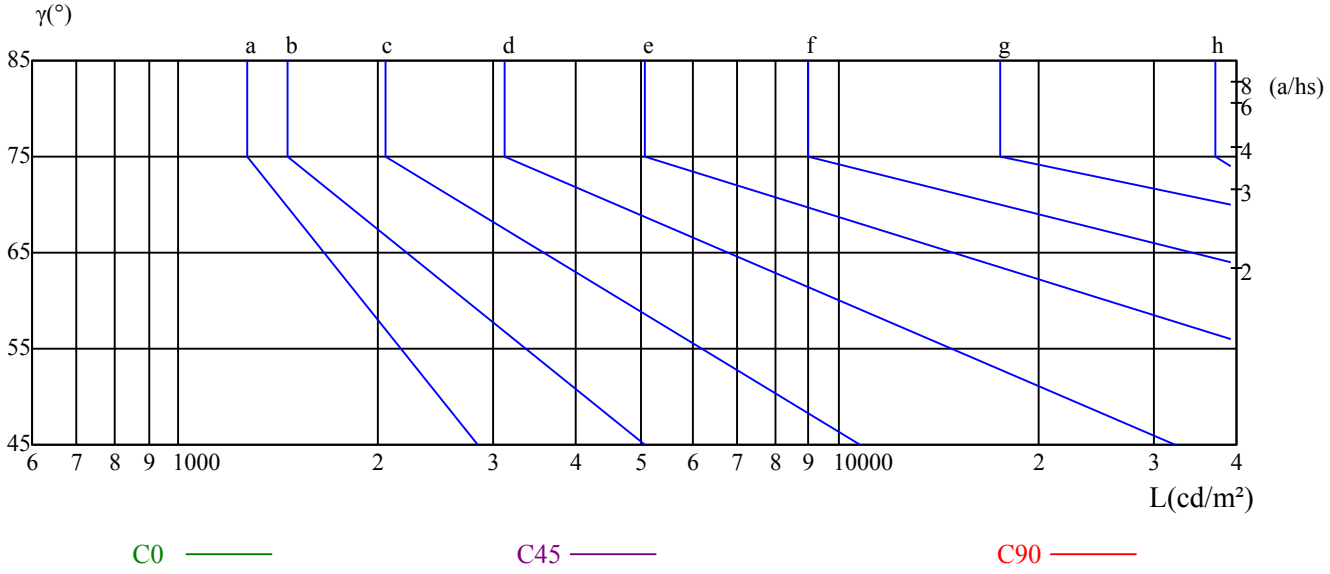
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

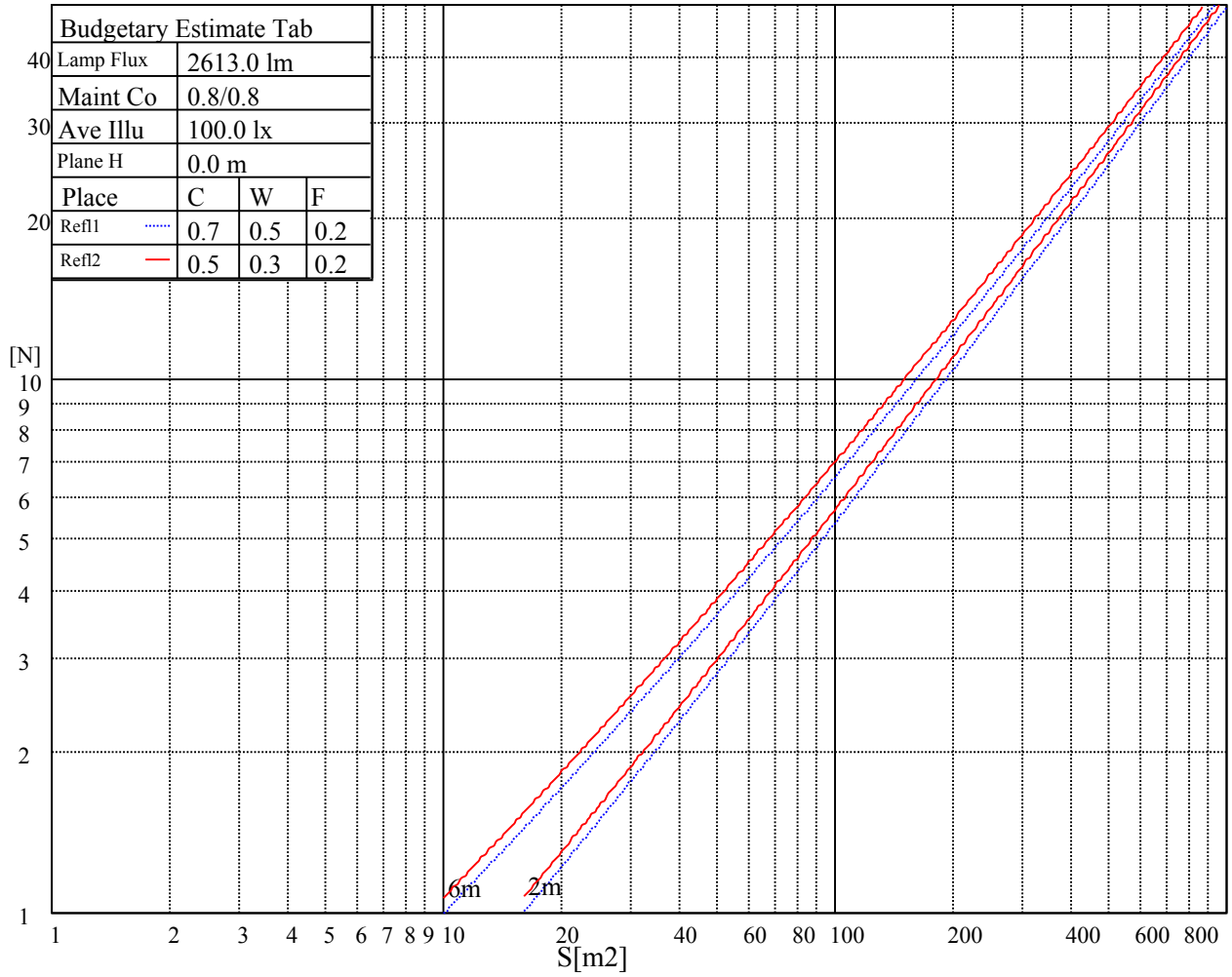
Luminance Limitting Curve



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 X Y	Viewed crosswise					Viewed endwise				
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
2H 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
2H 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
2H 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
2H 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
2H 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
4H 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 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
4H 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
4H 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
4H 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
8H 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 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
8H 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
12H 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
12H 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

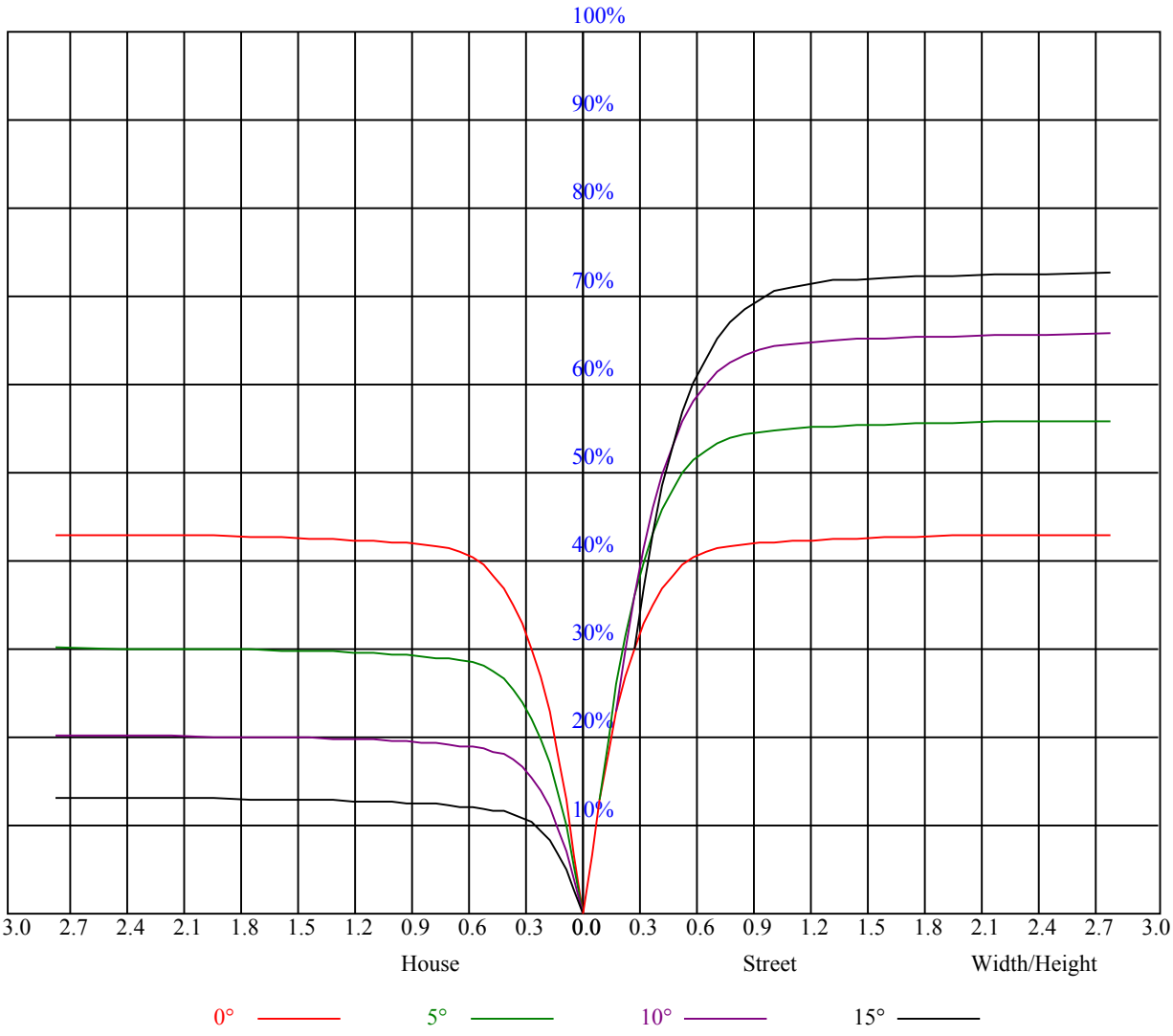


Equipment: GMS1980 Date: 2024/2/28 Operator: NT07
Temperature(°C): 25.0 Humidity(%): 60.0% Distance(m): 7.65

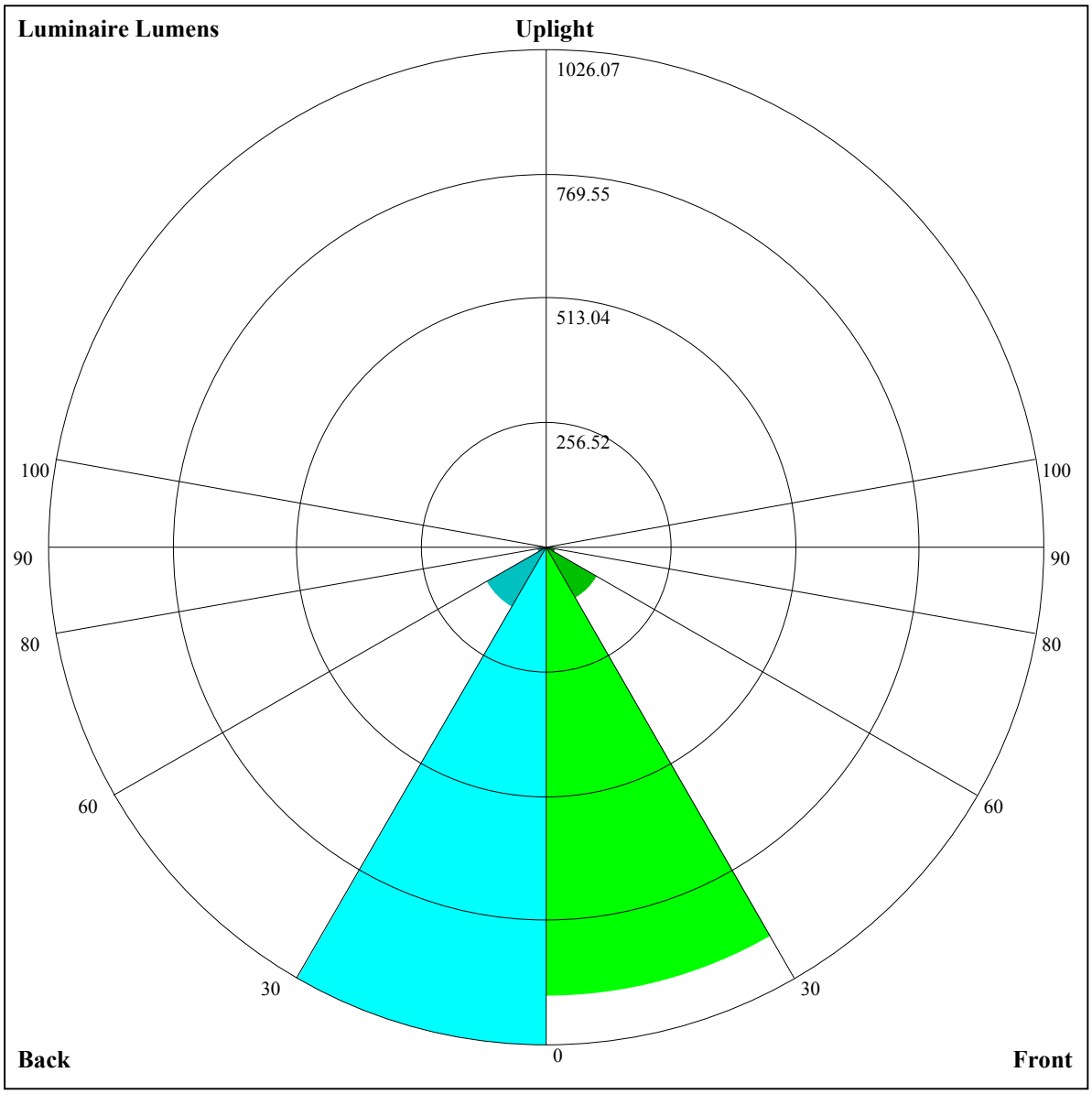
Utilization factor table for indoor luminaire

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	1.03	1.03	1.03	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.89	0.89	0.89	0.87
1	0.97	0.95	0.93	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85	0.84	0.84	0.82
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.82	0.81	0.79	0.78
3	0.86	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.79	0.77	0.75	0.74
4	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.71
5	0.78	0.74	0.71	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.69	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
7	0.72	0.68	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.66	0.63	0.62
8	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.66	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56

Coefficient Utilization Curve



Equipment: GMS1980	Date: 2024/2/28	Operator: NT07
Temperature(°C): 25.0	Humidity(%): 60.0%	Distance(m): 7.65



Luminaire Lumens:
FL=926.56,FM=123.26,FH=19.36,FVH=6
BL=1026.07,BM=144.27,BH=20.08,BVH=6.17
UL=0,UH=0

BUG Rating:B3-U0-G0

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	9712.45	9199.80	8580.04	7878.94	6934.97	6214.56	5395.83	4856.84	4403.88
45.0	10161.32	9968.78	9588.97	8903.09	8238.86	7502.64	6585.60	5902.64	5292.25
90.0	10063.59	9752.25	9151.81	8539.66	7836.22	7112.88	6231.53	5584.28	5015.44
135.0	10219.26	10155.47	9885.68	9425.11	8677.77	7995.99	7285.52	6573.31	5727.07
180.0	9712.45	10117.43	10201.70	10071.20	9732.35	9067.53	8423.79	7744.93	6836.66
225.0	10161.32	10125.04	9871.05	9413.99	8821.74	7999.50	7287.28	6558.68	5848.80
270.0	10063.59	10199.95	10099.29	9807.26	9200.97	8587.65	7918.15	7209.45	6288.89
315.0	10219.26	10033.74	9664.46	9138.93	8337.17	7633.15	6886.40	5983.40	5325.61
360.0	9712.45	9199.80	8580.04	7878.94	6934.97	6214.56	5395.83	4856.84	4403.88

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3930.43	3612.65	3321.21	3059.03	2760.56	2549.30	2350.32	2169.49	1974.61
45.0	4653.18	4226.55	3870.15	3476.88	3194.80	2939.64	2702.04	2434.59	2249.66
90.0	4525.02	4019.38	3674.69	3363.35	3025.67	2774.61	2551.05	2300.58	2127.35
135.0	5124.87	4637.97	4138.77	3788.81	3413.09	3139.79	2888.14	2659.91	2404.16
180.0	6115.07	5447.92	4753.26	4324.87	3884.78	3571.10	3294.88	3042.06	2758.22
225.0	5056.40	4558.96	4162.18	3736.13	3443.52	3110.53	2870.00	2646.45	2444.54
270.0	5612.95	5040.60	4563.06	4060.93	3713.90	3413.68	3068.39	2824.35	2603.72
315.0	4785.44	4234.75	3863.13	3549.45	3198.90	2950.18	2717.84	2503.65	2315.79
360.0	3930.43	3612.65	3321.21	3059.03	2760.56	2549.30	2350.32	2169.49	1974.61

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1834.74	1703.06	1577.24	1329.69	1164.31	1164.31	1028.83	950.52	883.81
45.0	2084.63	1937.15	1766.27	1634.59	1474.83	1347.25	1216.16	1069.26	982.65
90.0	1969.93	1792.02	1662.10	1533.35	1149.91	1149.91	1119.13	1016.24	926.35
135.0	2222.74	2058.88	1909.06	1741.10	1615.28	1491.21	1364.80	1201.53	1075.70
180.0	2549.88	2357.93	2171.83	1967.58	1827.72	1700.14	1546.22	1428.59	1308.62
225.0	2216.31	2049.52	1896.19	1758.66	1599.48	1478.92	1141.89	1141.89	1082.78
270.0	2351.49	2167.15	1999.77	1824.79	1699.55	1569.05	1398.16	1275.26	1146.51
315.0	2098.09	1944.76	1804.89	1644.54	1519.30	1146.40	1146.40	1116.14	995.53
360.0	1834.74	1703.06	1577.24	1329.69	1164.31	1164.31	1028.83	950.52	883.81

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	793.21	710.35	620.98	505.40	409.95	319.01	238.07	157.84	117.63
45.0	914.18	845.71	745.05	658.44	572.41	480.53	368.17	305.55	305.55
90.0	862.27	785.78	701.57	594.71	505.46	416.68	310.81	235.79	155.96
135.0	963.34	897.21	829.32	728.08	640.29	551.93	461.22	350.61	307.89
180.0	1159.39	1046.44	961.00	875.56	799.48	715.20	622.74	505.11	407.96
225.0	986.28	914.71	831.08	749.85	640.59	549.58	456.94	366.06	260.83
270.0	1034.74	936.42	873.21	797.13	704.67	595.82	505.11	394.50	310.81
315.0	923.25	857.53	779.46	668.21	576.62	484.51	394.38	290.27	215.36
360.0	793.21	710.35	620.98	505.40	409.95	319.01	238.07	157.84	117.63

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	99.66	92.29	84.92	78.89	73.97	69.64	65.25	60.45	56.71
45.0	142.56	104.64	95.04	86.79	82.52	77.95	72.45	68.06	63.91
90.0	115.46	99.43	92.35	85.50	80.53	75.85	71.40	65.78	61.98
135.0	307.89	127.64	93.52	85.85	80.41	75.20	71.16	67.59	62.74
180.0	315.49	315.49	147.48	107.92	90.07	82.05	77.25	73.39	68.24
225.0	186.39	129.98	99.55	86.85	81.05	76.72	73.04	68.06	63.85
270.0	310.81	220.28	111.49	95.80	89.25	82.63	78.19	73.74	69.06
315.0	153.33	106.92	93.64	87.20	80.76	76.08	71.46	65.78	61.39
360.0	99.66	92.29	84.92	78.89	73.97	69.64	65.25	60.45	56.71

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	53.61	50.04	47.70	45.71	43.66	42.02	40.73	39.80	38.86
45.0	60.40	56.36	53.31	50.33	47.46	45.59	44.13	42.60	41.20
90.0	58.46	55.07	51.50	48.81	46.12	44.30	42.84	41.32	40.32
135.0	59.05	55.83	51.97	49.63	47.23	44.48	42.55	40.91	40.15
180.0	64.26	60.28	56.24	53.08	50.27	47.93	45.12	43.42	41.90
225.0	59.11	56.01	52.85	49.57	47.11	45.00	43.01	41.73	40.61
270.0	63.50	59.63	56.18	53.20	49.92	47.34	44.83	43.01	41.55
315.0	57.82	54.37	50.80	48.22	45.94	43.95	41.73	40.32	39.33
360.0	53.61	50.04	47.70	45.71	43.66	42.02	40.73	39.80	38.86

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.04	37.40	35.76	34.53	32.95	30.37	28.32	25.46	23.64
45.0	40.32	39.68	39.03	38.10	36.28	34.82	32.01	30.14	26.98
90.0	39.68	39.27	38.39	36.93	35.46	33.77	30.72	28.68	25.87
135.0	39.15	38.80	38.16	37.34	36.23	35.05	33.42	30.43	28.85
180.0	40.50	39.21	38.33	37.69	36.99	36.64	35.41	34.12	32.48
225.0	39.39	38.22	37.75	37.45	36.93	35.11	33.77	30.96	29.14
270.0	40.26	39.39	38.68	38.04	37.22	36.11	34.65	33.07	29.96
315.0	38.45	37.81	36.81	36.11	35.11	33.47	31.66	29.14	27.51
360.0	38.04	37.40	35.76	34.53	32.95	30.37	28.32	25.46	23.64

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	21.36	19.90	18.90	17.91	17.21	16.91	16.91	17.21	17.32
45.0	24.76	23.29	21.07	19.78	18.73	17.97	17.32	17.09	17.26
90.0	23.53	21.54	20.01	18.84	17.91	17.56	17.73	17.67	17.32
135.0	25.81	23.70	22.18	20.07	18.79	17.79	17.15	16.62	15.98
180.0	29.61	27.74	24.58	23.00	20.42	19.25	18.26	17.38	16.62
225.0	26.63	23.82	22.06	20.19	19.20	17.91	17.38	16.97	16.80
270.0	28.32	25.22	23.17	21.13	19.66	18.55	18.26	18.73	19.14
315.0	24.05	22.47	20.60	19.20	18.32	17.26	16.74	16.09	15.68
360.0	21.36	19.90	18.90	17.91	17.21	16.91	16.91	17.21	17.32

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	17.09	16.85	16.68	16.27	15.80	15.39	14.69	13.81	12.35
45.0	17.44	17.21	16.91	16.68	16.50	15.98	15.45	14.51	13.69
90.0	16.85	16.56	16.27	15.80	15.22	14.69	14.34	13.69	12.76
135.0	15.57	15.16	14.69	14.34	13.99	13.52	13.23	12.82	12.47
180.0	16.21	16.04	15.86	15.57	15.51	15.10	14.92	14.69	14.34
225.0	16.85	17.03	16.80	16.44	16.27	15.92	15.27	14.81	14.16
270.0	19.02	18.79	18.43	18.08	17.67	16.97	16.44	15.68	15.27
315.0	15.33	14.81	14.46	14.16	13.69	13.40	13.11	12.76	12.41
360.0	17.09	16.85	16.68	16.27	15.80	15.39	14.69	13.81	12.35

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	11.65	11.24	10.89	10.59	10.30	10.12	10.01	9.77	9.83
45.0	12.47	11.76	11.35	11.00	10.65	10.36	10.12	10.01	9.71
90.0	11.94	11.53	11.18	10.89	10.48	10.24	10.07	9.89	9.77
135.0	12.17	11.82	11.47	11.24	10.89	10.53	10.30	10.07	9.89
180.0	14.05	13.52	12.87	12.06	11.35	11.00	10.71	10.30	10.18
225.0	13.34	12.58	11.88	11.29	11.00	10.65	10.30	10.07	9.95
270.0	14.46	13.69	12.00	11.47	11.12	10.83	10.48	10.18	9.95
315.0	12.11	11.76	11.47	11.18	10.83	10.48	10.24	10.01	9.77
360.0	11.65	11.24	10.89	10.59	10.30	10.12	10.01	9.77	9.83

Intensity data(cd)

C/γ(°)	90.0
0.0	9.83
45.0	9.83
90.0	9.83
135.0	9.83
180.0	10.01
225.0	9.66
270.0	9.71
315.0	9.83
360.0	9.83