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: 2-2642-L Luminaire:
92.70.411.00 Report No: 2023829-B001
Ballast type:
Test No: 2023829-C001
LampCAT: LUXEON CoB 1205 LES13
Lamp flux(lm): 1852.5 Number of Lamps: 1 Length(mm): 0
Phm Type: C

Voltage(V):
Current(A):
Power (W): 15.267
PF:
Width(mm): 0
Height(mm): 0

Photometric Results

Lumens(lm): 1714.10, Efficiency(%): 92.53% , Luminous Efficacy(lm/W): 112.27
Central intensity(cd): 2862.002, Maximum intensity(cd): 2862.002
Angle of maximum intensity: C=0.0 γ=0.0
Beam Angle(50%Imax): [C0/180]Total=45.8
[C90/270]Total=45.8
Field angle(10%Imax): [C0/180]Total=70.8
[C90/270]Total=70.8
Maximum s/h(1/2): C0_180=0.72 C90_270=0.72
Maximum s/h(1/4): C0_180=0.74 C90_270=0.74
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 92.53%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.809%

Equipment: NT07 Date: 2023/8/29 Operator: 1
Temperature(°C): 25 Humidity(%): 60%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2862.002	0.000	0	0.00%	0.00%
1.0	2861.449	2.739	2.739	0.15%	0.16%
2.0	2854.322	8.204	10.942	0.44%	0.64%
3.0	2840.138	13.619	24.562	0.74%	1.43%
4.0	2819.242	18.944	43.505	1.02%	2.54%
5.0	2786.929	24.117	67.623	1.30%	3.95%
6.0	2741.401	29.053	96.676	1.57%	5.64%
7.0	2694.835	33.743	130.418	1.82%	7.61%
8.0	2633.738	38.136	168.554	2.06%	9.83%
9.0	2565.653	42.138	210.692	2.27%	12.29%
10.0	2496.392	45.810	256.502	2.47%	14.96%
11.0	2422.149	49.146	305.648	2.65%	17.83%
12.0	2347.006	52.134	357.782	2.81%	20.87%
13.0	2274.839	54.850	412.631	2.96%	24.07%
14.0	2199.212	57.267	469.899	3.09%	27.41%
15.0	2120.334	59.301	529.2	3.20%	30.87%
16.0	2034.189	60.875	590.075	3.29%	34.42%
17.0	1956.764	62.150	652.225	3.35%	38.05%
18.0	1871.865	63.126	715.351	3.41%	41.73%
19.0	1783.092	63.589	778.939	3.43%	45.44%
20.0	1694.526	63.650	842.589	3.44%	49.16%
21.0	1604.161	63.341	905.931	3.42%	52.85%
22.0	1510.683	62.594	968.525	3.38%	56.50%
23.0	1417.204	61.435	1029.96	3.32%	60.09%
24.0	1297.378	59.350	1089.31	3.20%	63.55%
25.0	1221.128	57.265	1146.576	3.09%	66.89%
26.0	1137.689	55.680	1202.256	3.01%	70.14%
27.0	1068.290	53.970	1256.226	2.91%	73.29%
28.0	971.815	51.651	1307.877	2.79%	76.30%
29.0	880.503	48.462	1356.339	2.62%	79.13%
30.0	779.282	44.814	1401.153	2.42%	81.74%
31.0	677.258	40.533	1441.686	2.19%	84.11%
32.0	567.741	35.668	1477.354	1.93%	86.19%
33.0	475.079	30.722	1508.076	1.66%	87.98%
34.0	389.592	26.167	1534.243	1.41%	89.51%
35.0	308.119	21.668	1555.911	1.17%	90.77%
36.0	251.527	17.819	1573.731	0.96%	91.81%
37.0	196.761	14.621	1588.351	0.79%	92.66%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	156.927	11.806	1600.157	0.64%	93.35%
39.0	101.768	8.830	1608.987	0.48%	93.87%
40.0	84.906	6.511	1615.497	0.35%	94.25%
41.0	73.939	5.656	1621.154	0.31%	94.58%
42.0	65.435	5.064	1626.218	0.27%	94.87%
43.0	58.848	4.604	1630.821	0.25%	95.14%
44.0	52.863	4.216	1635.038	0.23%	95.39%
45.0	47.888	3.872	1638.91	0.21%	95.61%
46.0	43.840	3.587	1642.497	0.19%	95.82%
47.0	40.138	3.340	1645.837	0.18%	96.02%
48.0	36.962	3.117	1648.954	0.17%	96.20%
49.0	33.828	2.907	1651.861	0.16%	96.37%
50.0	31.635	2.729	1654.59	0.15%	96.53%
51.0	29.697	2.595	1657.185	0.14%	96.68%
52.0	27.988	2.475	1659.66	0.13%	96.82%
53.0	26.487	2.370	1662.03	0.13%	96.96%
54.0	25.255	2.281	1664.31	0.12%	97.10%
55.0	24.169	2.206	1666.517	0.12%	97.22%
56.0	22.999	2.131	1668.648	0.12%	97.35%
57.0	22.086	2.061	1670.709	0.11%	97.47%
58.0	21.159	2.000	1672.709	0.11%	97.59%
59.0	20.370	1.942	1674.651	0.10%	97.70%
60.0	19.588	1.888	1676.539	0.10%	97.81%
61.0	18.827	1.833	1678.372	0.10%	97.92%
62.0	18.177	1.783	1680.155	0.10%	98.02%
63.0	17.554	1.738	1681.893	0.09%	98.12%
64.0	16.924	1.692	1683.584	0.09%	98.22%
65.0	16.336	1.646	1685.23	0.09%	98.32%
66.0	15.810	1.604	1686.834	0.09%	98.41%
67.0	15.305	1.565	1688.399	0.08%	98.50%
68.0	14.800	1.525	1689.924	0.08%	98.59%
69.0	14.288	1.484	1691.408	0.08%	98.68%
70.0	13.831	1.444	1692.852	0.08%	98.76%
71.0	13.389	1.407	1694.259	0.08%	98.84%
72.0	12.911	1.368	1695.626	0.07%	98.92%
73.0	12.475	1.328	1696.954	0.07%	99.00%
74.0	12.039	1.289	1698.243	0.07%	99.07%
75.0	11.610	1.250	1699.492	0.07%	99.15%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.223	1.212	1700.704	0.07%	99.22%
77.0	10.808	1.175	1701.879	0.06%	99.29%
78.0	10.386	1.135	1703.013	0.06%	99.35%
79.0	10.012	1.096	1704.109	0.06%	99.42%
80.0	9.652	1.060	1705.169	0.06%	99.48%
81.0	9.292	1.024	1706.194	0.06%	99.54%
82.0	8.926	0.988	1707.182	0.05%	99.60%
83.0	8.614	0.953	1708.135	0.05%	99.65%
84.0	8.338	0.924	1709.059	0.05%	99.71%
85.0	8.075	0.896	1709.955	0.05%	99.76%
86.0	7.860	0.871	1710.826	0.05%	99.81%
87.0	7.646	0.849	1711.674	0.05%	99.86%
88.0	7.424	0.826	1712.5	0.04%	99.91%
89.0	7.272	0.806	1713.305	0.04%	99.95%
90.0	7.203	0.794	1714.099	0.04%	100.00%

Zonal flux distribution table

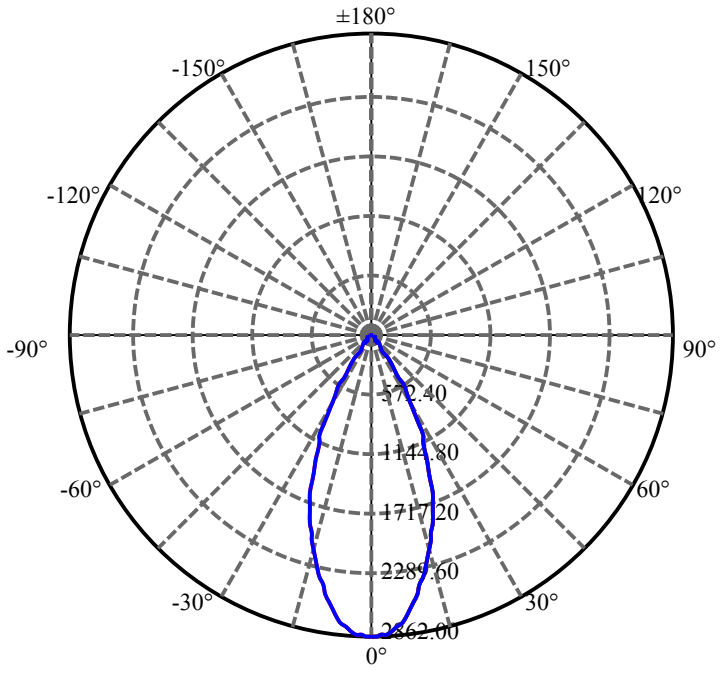
ZONAL LUMEN SUMMARY

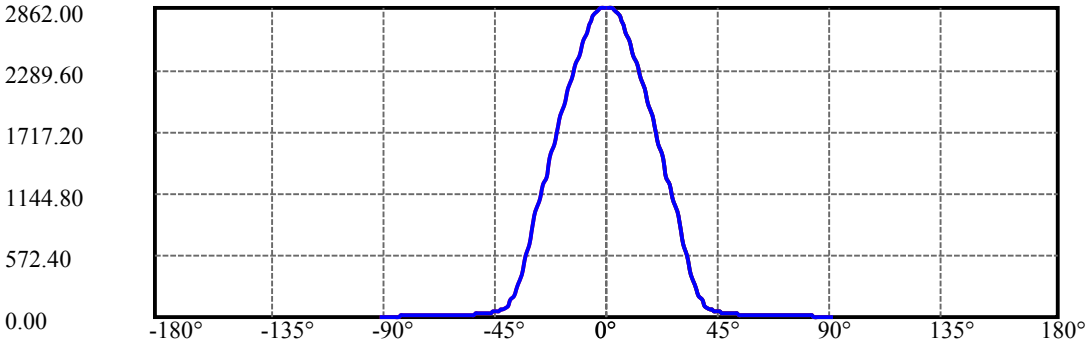
Zone	Lumens	%Lamp	%Fixt
0-30	1401.15	75.63%	81.74%
0-40	1615.50	87.20%	94.25%
0-60	1676.54	90.50%	97.81%
0-90	1713.31	92.48%	99.95%
0-120	1713.31	92.48%	99.95%
0-180	1714.10	92.53%	100.00%
60-90	36.77	1.98%	2.14%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.33	1371.28	74.02%	80.00%

ZONAL LUMEN SUMMARY

0-10	256.50
10-20	586.09
20-30	558.56
30-40	214.34
40-50	39.09
50-60	21.95
60-70	16.31
70-80	12.32
80-90	8.14
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):

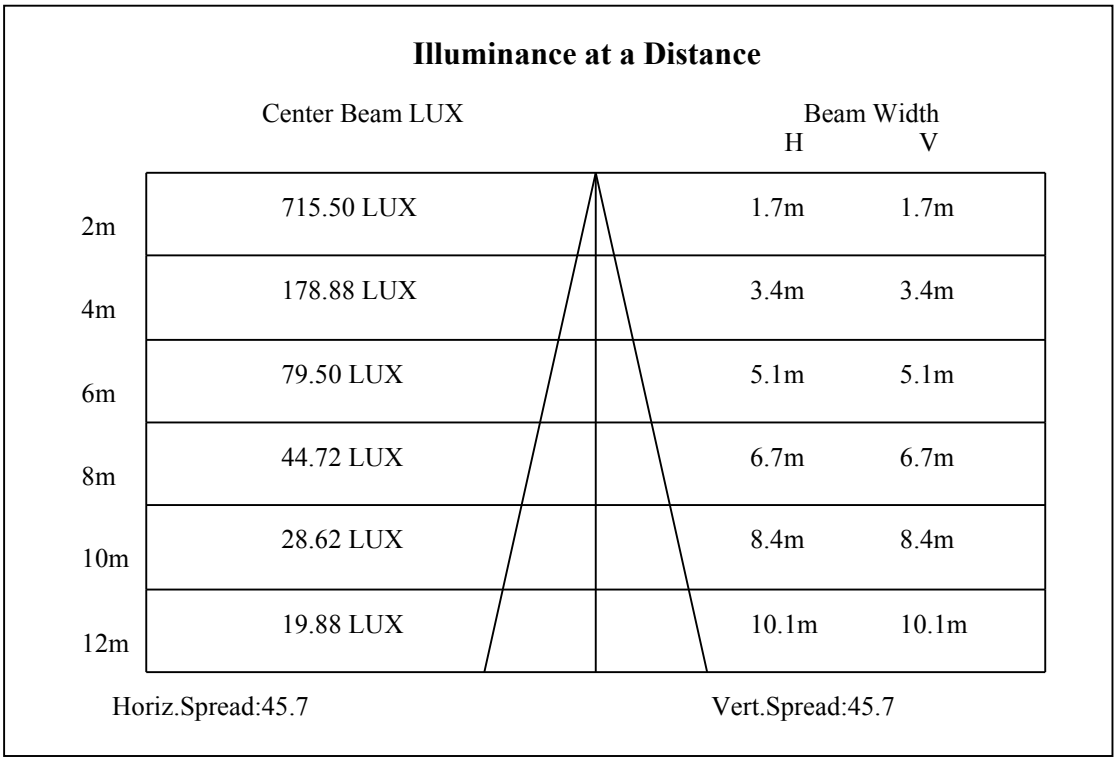
C0/C180:

C90/C270:

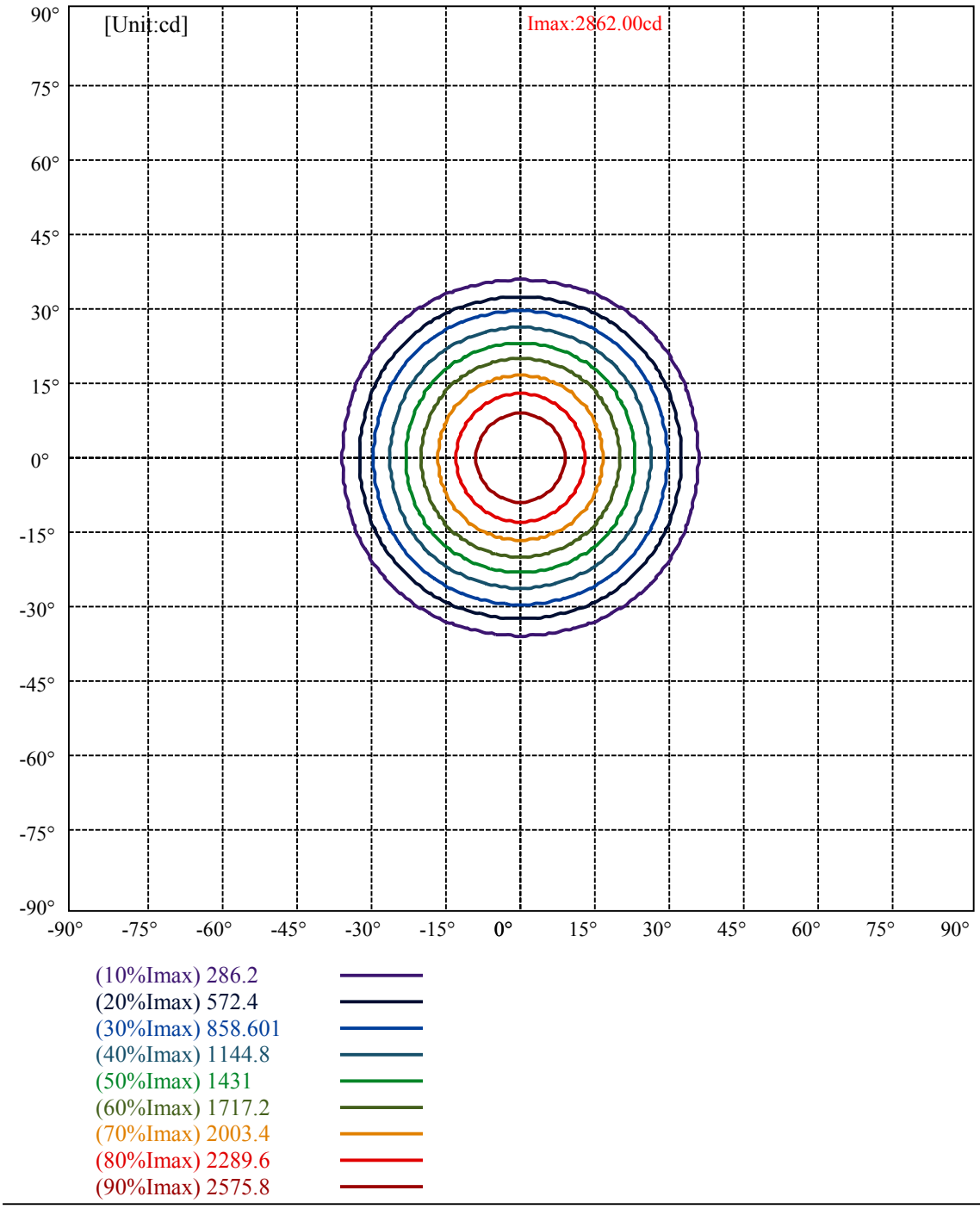
Field angle(10%Imax):C0/180Left:35.4 Right:35.4
:C90/270Left:35.4 Right:35.4

Beam Angle(50%Imax):C0/180Left:22.9 Right:22.9
:C90/270Left:22.9 Right:22.9

Lux distance Curve



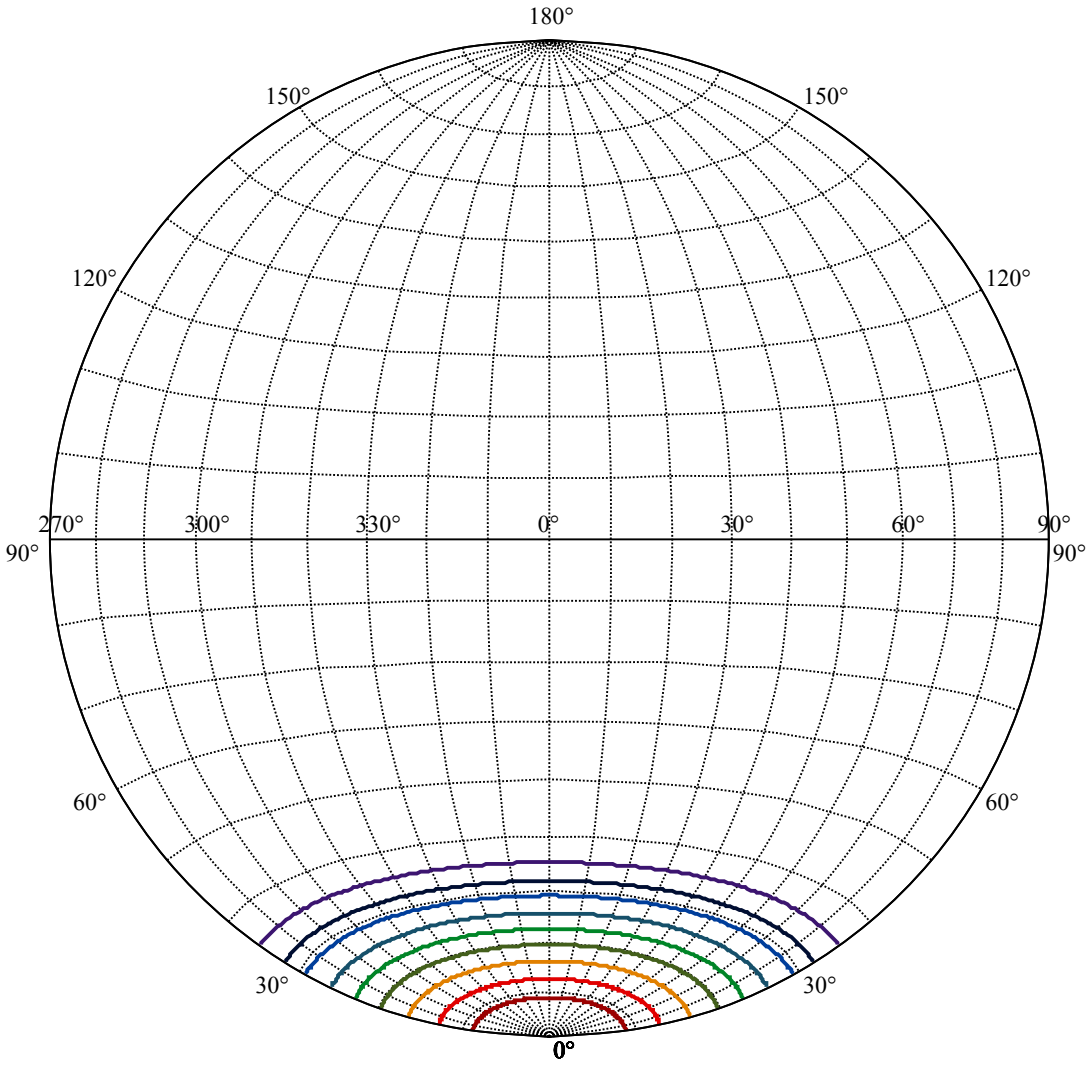
ISO-Intensity(V-H)



Equipment: NT07 Date: 2023/8/29 Operator: 1

Temperature(°C): 25 Humidity(%): 60%

ISO candela diagram on circular web

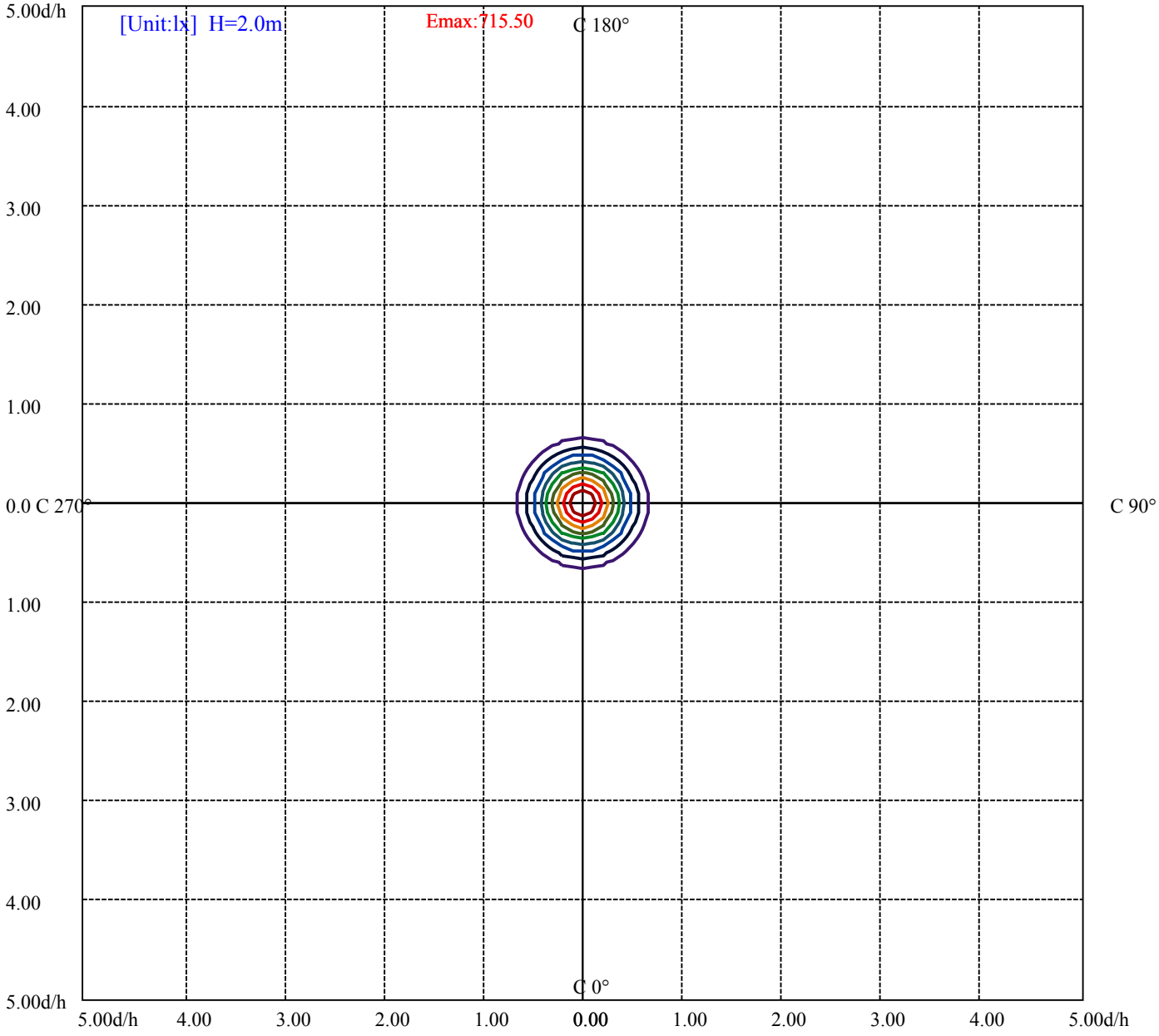


House [Unit:cd] Road

Imax:2862.00

(10%Imax) 286.2
(20%Imax) 572.4
(30%Imax) 858.601
(40%Imax) 1144.8
(50%Imax) 1431
(60%Imax) 1717.2
(70%Imax) 2003.4
(80%Imax) 2289.6
(90%Imax) 2575.8

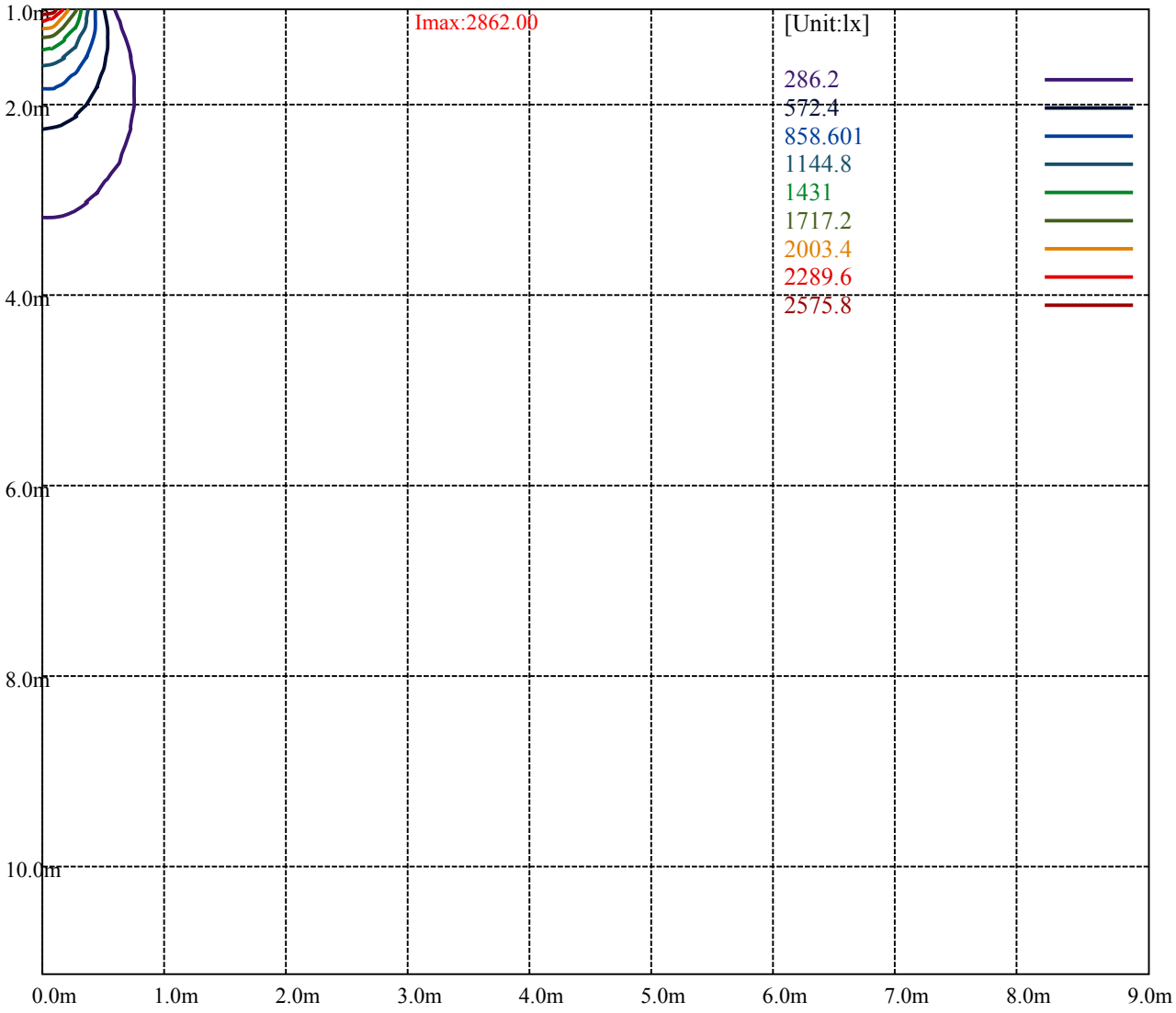
ISO illuminance diagram



(10%Emax) 71.55
(20%Emax) 143.1
(30%Emax) 214.6503
(40%Emax) 286.2
(50%Emax) 357.75
(60%Emax) 429.3
(70%Emax) 500.85
(80%Emax) 572.4
(90%Emax) 643.95

Equipment: NT07 Date: 2023/8/29 Operator: 1
Temperature(°C): 25 Humidity(%): 60%

Space ISO Lux diagram



Equipment: NT07
Temperature(°C): 25

Date: 2023/8/29
Humidity(%): 60%

Operator: 1

Luminance Limitting Curve(no luminous side)

Luminance Table

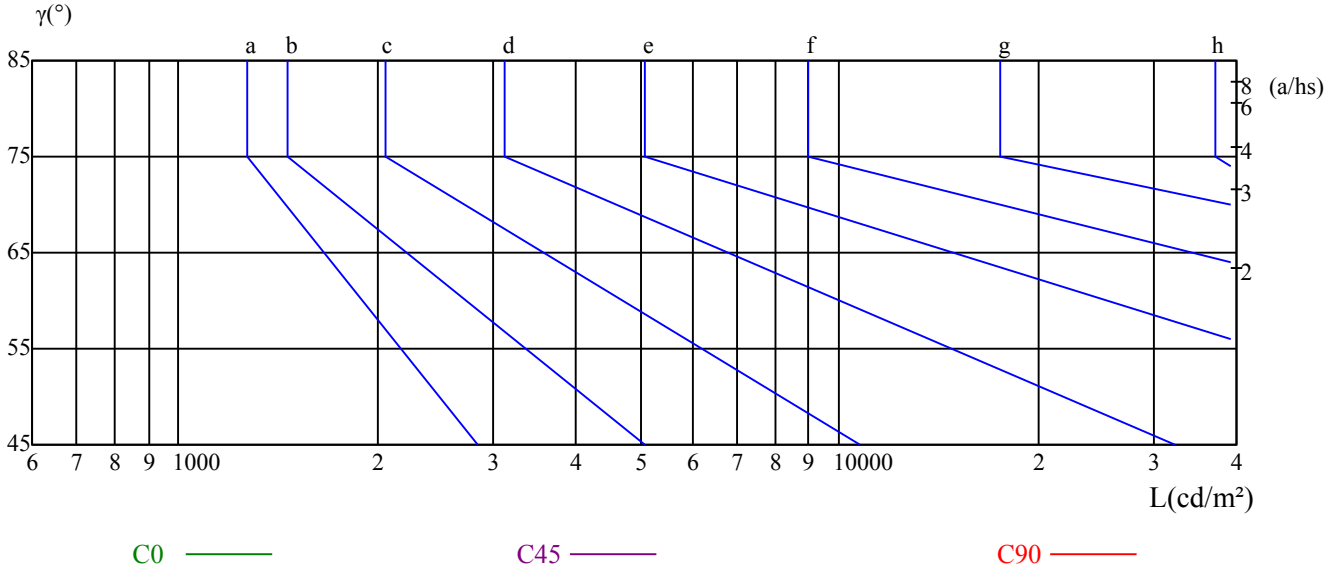
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

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

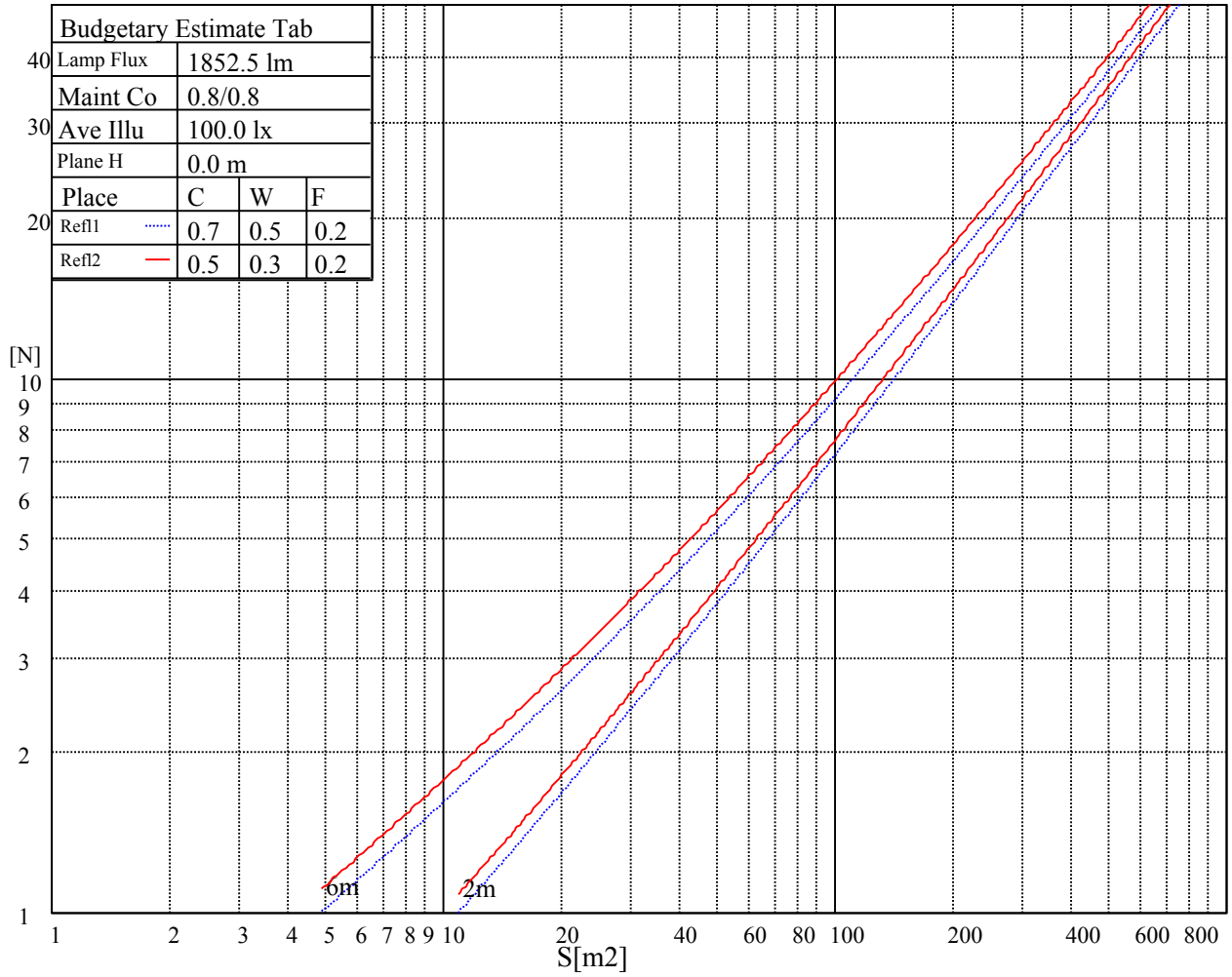


UGR Glare

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	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

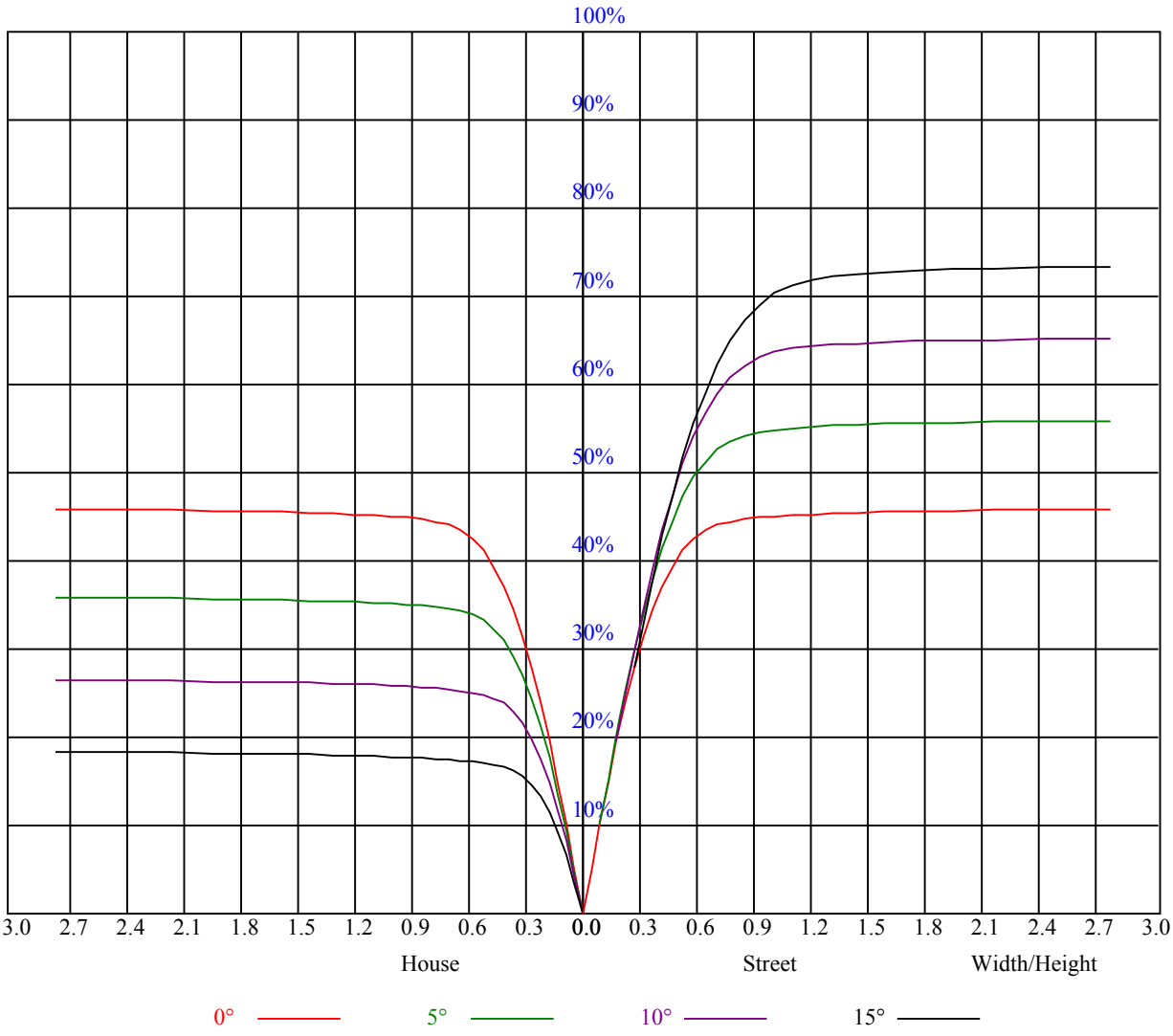


Equipment: NT07 Date: 2023/8/29 Operator: 1
Temperature(°C): 25 Humidity(%): 60%

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	1.10	1.10	1.10	1.08	1.08	1.08	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.93
1	1.03	1.00	0.98	1.01	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.89	0.94	0.91	0.88	0.91	0.89	0.86	0.89	0.86	0.85	0.86	0.84	0.83	0.81
3	0.90	0.86	0.82	0.89	0.85	0.82	0.86	0.83	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.76
4	0.85	0.80	0.76	0.84	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.78	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.75	0.71	0.78	0.74	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
6	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.71	0.68	0.66	0.64
7	0.72	0.67	0.63	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.60	0.56	0.54	0.52

Coefficient Utilization Curve



Equipment: NT07
Temperature(°C): 25

Date: 2023/8/29
Humidity(%): 60%

Operator: 1

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	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
45.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
90.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
135.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
180.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
225.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
270.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
315.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74
360.0	2862.00	2861.45	2854.32	2840.14	2819.24	2786.93	2741.40	2694.84	2633.74

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
45.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
90.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
135.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
180.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
225.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
270.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
315.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76
360.0	2565.65	2496.39	2422.15	2347.01	2274.84	2199.21	2120.33	2034.19	1956.76

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
45.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
90.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
135.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
180.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
225.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
270.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
315.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69
360.0	1871.87	1783.09	1694.53	1604.16	1510.68	1417.20	1297.38	1221.13	1137.69

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
45.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
90.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
135.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
180.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
225.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
270.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
315.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12
360.0	1068.29	971.82	880.50	779.28	677.26	567.74	475.08	389.59	308.12

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
45.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
90.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
135.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
180.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
225.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
270.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
315.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86
360.0	251.53	196.76	156.93	101.77	84.91	73.94	65.44	58.85	52.86

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	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
45.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
90.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
135.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
180.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
225.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
270.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
315.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49
360.0	47.89	43.84	40.14	36.96	33.83	31.64	29.70	27.99	26.49

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
45.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
90.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
135.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
180.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
225.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
270.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
315.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18
360.0	25.26	24.17	23.00	22.09	21.16	20.37	19.59	18.83	18.18

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
45.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
90.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
135.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
180.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
225.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
270.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
315.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39
360.0	17.55	16.92	16.34	15.81	15.31	14.80	14.29	13.83	13.39

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
45.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
90.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
135.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
180.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
225.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
270.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
315.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65
360.0	12.91	12.48	12.04	11.61	11.22	10.81	10.39	10.01	9.65

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
45.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
90.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
135.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
180.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
225.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
270.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
315.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27
360.0	9.29	8.93	8.61	8.34	8.08	7.86	7.65	7.42	7.27

Intensity data(cd)

C/γ(°)	90.0
0.0	7.20
45.0	7.20
90.0	7.20
135.0	7.20
180.0	7.20
225.0	7.20
270.0	7.20
315.0	7.20
360.0	7.20