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NT

Client:

LumCAT: 2-1565-M 铝反光罩

Luminaire: GH36D-B40 Hodel

Report No: 2024510-B005

Ballast type:

Test No: 2024510-C005

Voltage(V):

LampCAT: LUMINUS CXM-14-AC40

Current(A):

Lamp flux(lm): 2173.0

Power (W): 12.523

Number of Lamps: 1

PF:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1964.66, Efficiency(%): 90.41% , Luminous Efficacy(lm/W): 156.88

Central intensity(cd): 1604.746, Maximum intensity(cd): 1651.710

Angle of maximum intensity: C=0.0 γ =15.0

Beam Angle(50%Imax): [C0/180]Total=68.6

[C90/270]Total=68.6

Field angle(10%Imax): [C0/180]Total=89.6

[C90/270]Total=89.6

Maximum s/h(1/2): C0_180=1.12 C90_270=1.12

Maximum s/h(1/4): C0_180=1.00 C90_270=1.00

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.41%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.439%

NT 2-1565-M 铝反光罩

Zonal flux distribution table

Appendix Page: 2 Total:19

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1604.746	0.000	0	0.00%	0.00%
1.0	1605.477	1.536	1.536	0.07%	0.08%
2.0	1606.721	4.610	6.146	0.21%	0.31%
3.0	1608.403	7.690	13.836	0.35%	0.70%
4.0	1610.817	10.776	24.612	0.50%	1.25%
5.0	1613.085	13.869	38.481	0.64%	1.96%
6.0	1618.133	16.981	55.462	0.78%	2.82%
7.0	1622.375	20.114	75.576	0.93%	3.85%
8.0	1626.838	23.254	98.83	1.07%	5.03%
9.0	1632.251	26.413	125.243	1.22%	6.37%
10.0	1637.299	29.588	154.831	1.36%	7.88%
11.0	1641.176	32.759	187.59	1.51%	9.55%
12.0	1645.053	35.923	223.513	1.65%	11.38%
13.0	1648.491	39.086	262.599	1.80%	13.37%
14.0	1650.686	42.229	304.828	1.94%	15.52%
15.0	1651.710	45.337	350.165	2.09%	17.82%
16.0	1650.613	48.388	398.553	2.23%	20.29%
17.0	1646.297	51.342	449.895	2.36%	22.90%
18.0	1638.689	54.162	504.057	2.49%	25.66%
19.0	1627.277	56.821	560.878	2.61%	28.55%
20.0	1611.549	59.280	620.158	2.73%	31.57%
21.0	1592.017	61.515	681.673	2.83%	34.70%
22.0	1568.389	63.510	745.182	2.92%	37.93%
23.0	1542.126	65.267	810.449	3.00%	41.25%
24.0	1509.793	66.726	877.175	3.07%	44.65%
25.0	1472.924	67.820	944.996	3.12%	48.10%
26.0	1430.568	68.537	1013.533	3.15%	51.59%
27.0	1361.204	68.301	1081.834	3.14%	55.06%
28.0	1291.899	67.171	1149.005	3.09%	58.48%
29.0	1223.618	65.813	1214.818	3.03%	61.83%
30.0	1170.260	64.634	1279.452	2.97%	65.12%
31.0	1092.988	62.983	1342.435	2.90%	68.33%
32.0	1012.937	60.332	1402.768	2.78%	71.40%
33.0	933.697	57.349	1460.116	2.64%	74.32%
34.0	852.409	54.053	1514.169	2.49%	77.07%
35.0	767.903	50.321	1564.49	2.32%	79.63%
36.0	687.669	46.346	1610.836	2.13%	81.99%
37.0	609.439	42.304	1653.14	1.95%	84.14%

NT 2-1565-M 铝反光罩

Zonal flux distribution table

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	530.433	38.047	1691.187	1.75%	86.08%
39.0	454.625	33.623	1724.81	1.55%	87.79%
40.0	384.632	29.270	1754.081	1.35%	89.28%
41.0	319.679	25.080	1779.161	1.15%	90.56%
42.0	272.671	21.521	1800.682	0.99%	91.65%
43.0	226.168	18.478	1819.16	0.85%	92.59%
44.0	188.618	15.655	1834.815	0.72%	93.39%
45.0	160.827	13.430	1848.245	0.62%	94.07%
46.0	131.756	11.442	1859.687	0.53%	94.66%
47.0	115.779	9.845	1869.532	0.45%	95.16%
48.0	101.602	8.788	1878.32	0.40%	95.61%
49.0	89.291	7.839	1886.159	0.36%	96.00%
50.0	78.969	7.015	1893.175	0.32%	96.36%
51.0	70.344	6.317	1899.492	0.29%	96.68%
52.0	62.305	5.692	1905.184	0.26%	96.97%
53.0	54.836	5.096	1910.279	0.23%	97.23%
54.0	48.603	4.559	1914.839	0.21%	97.46%
55.0	43.175	4.097	1918.935	0.19%	97.67%
56.0	38.244	3.679	1922.615	0.17%	97.86%
57.0	34.075	3.307	1925.921	0.15%	98.03%
58.0	30.198	2.972	1928.893	0.14%	98.18%
59.0	27.081	2.678	1931.571	0.12%	98.32%
60.0	24.104	2.418	1933.989	0.11%	98.44%
61.0	21.595	2.181	1936.17	0.10%	98.55%
62.0	19.298	1.970	1938.141	0.09%	98.65%
63.0	17.367	1.783	1939.924	0.08%	98.74%
64.0	15.479	1.612	1941.536	0.07%	98.82%
65.0	13.943	1.456	1942.992	0.07%	98.90%
66.0	12.553	1.322	1944.314	0.06%	98.96%
67.0	11.302	1.199	1945.513	0.06%	99.03%
68.0	10.278	1.093	1946.606	0.05%	99.08%
69.0	9.393	1.004	1947.61	0.05%	99.13%
70.0	8.720	0.930	1948.54	0.04%	99.18%
71.0	8.157	0.872	1949.412	0.04%	99.22%
72.0	7.776	0.828	1950.241	0.04%	99.27%
73.0	7.564	0.802	1951.043	0.04%	99.31%
74.0	7.462	0.790	1951.833	0.04%	99.35%
75.0	7.440	0.787	1952.62	0.04%	99.39%

NT 2-1565-M 铝反光罩

Zonal flux distribution table

Appendix Page: 4 Total:19

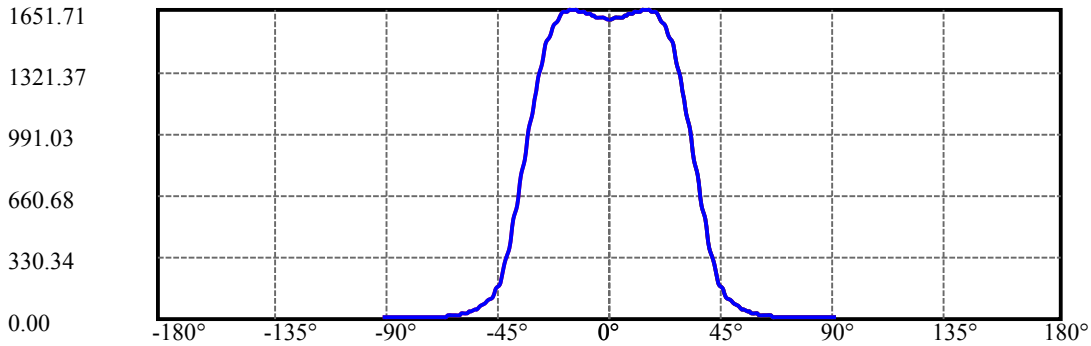
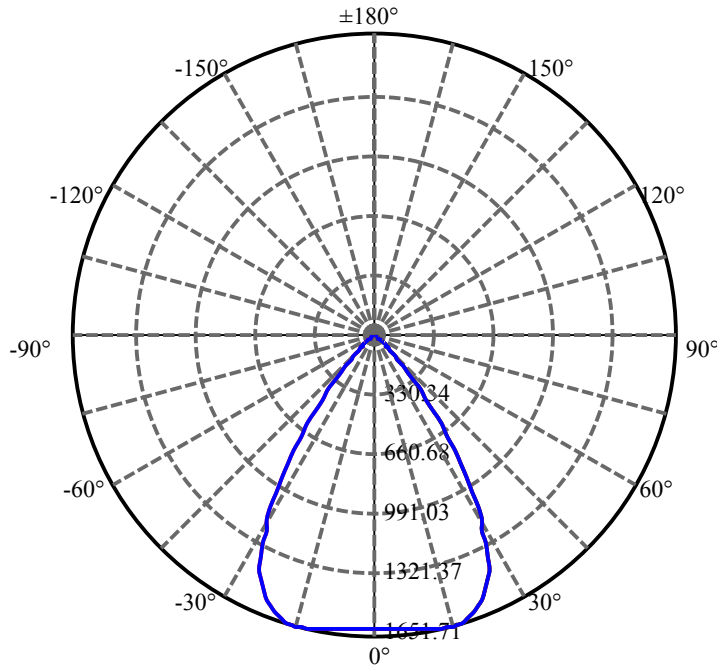
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.432	0.789	1953.41	0.04%	99.43%
77.0	7.418	0.792	1954.201	0.04%	99.47%
78.0	7.425	0.795	1954.996	0.04%	99.51%
79.0	7.418	0.798	1955.794	0.04%	99.55%
80.0	7.410	0.799	1956.593	0.04%	99.59%
81.0	7.410	0.801	1957.394	0.04%	99.63%
82.0	7.403	0.803	1958.198	0.04%	99.67%
83.0	7.403	0.805	1959.003	0.04%	99.71%
84.0	7.396	0.806	1959.809	0.04%	99.75%
85.0	7.388	0.807	1960.616	0.04%	99.79%
86.0	7.396	0.808	1961.424	0.04%	99.84%
87.0	7.388	0.809	1962.233	0.04%	99.88%
88.0	7.388	0.809	1963.042	0.04%	99.92%
89.0	7.374	0.809	1963.851	0.04%	99.96%
90.0	7.388	0.809	1964.661	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1279.45	58.88%	65.12%
0-40	1754.08	80.72%	89.28%
0-60	1933.99	89.00%	98.44%
0-90	1963.85	90.38%	99.96%
0-120	1963.85	90.38%	99.96%
0-180	1964.66	90.41%	100.00%
60-90	29.86	1.37%	1.52%
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%
0-35.16	1571.73	72.33%	80.00%

ZONAL LUMEN SUMMARY

0-10	154.83
10-20	465.33
20-30	659.29
30-40	474.63
40-50	139.09
50-60	40.81
60-70	14.55
70-80	8.05
80-90	7.26
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



C0(Max): —————

C0/C180: —————

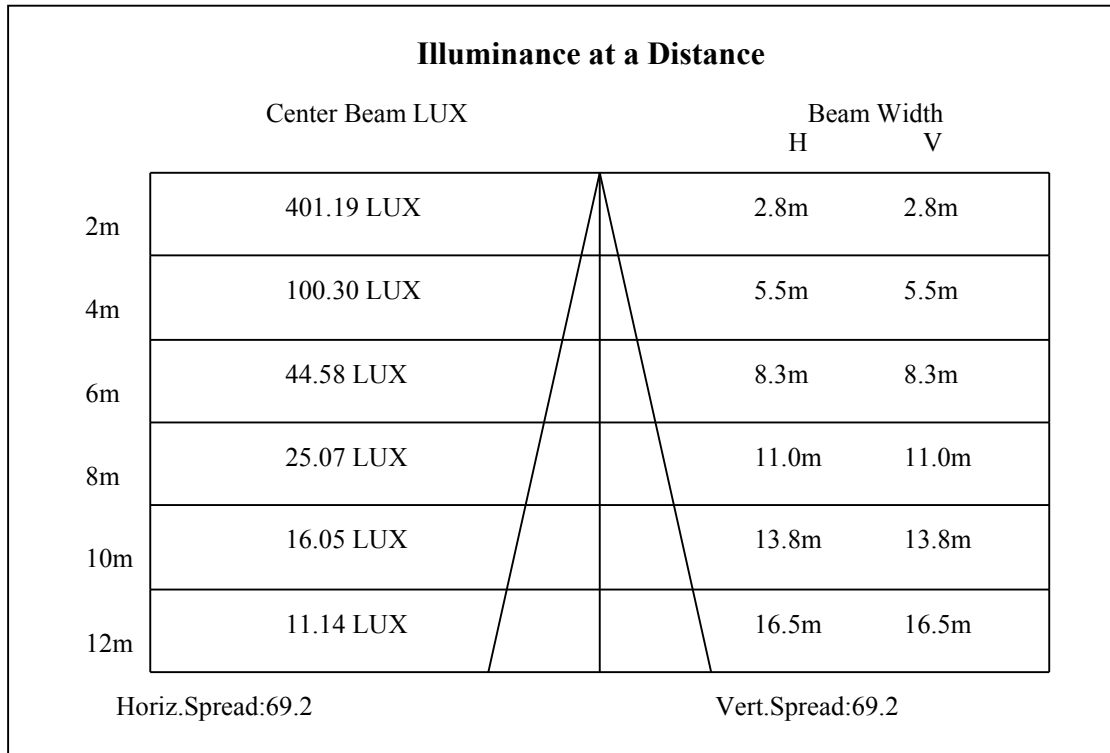
C90/C270: —————

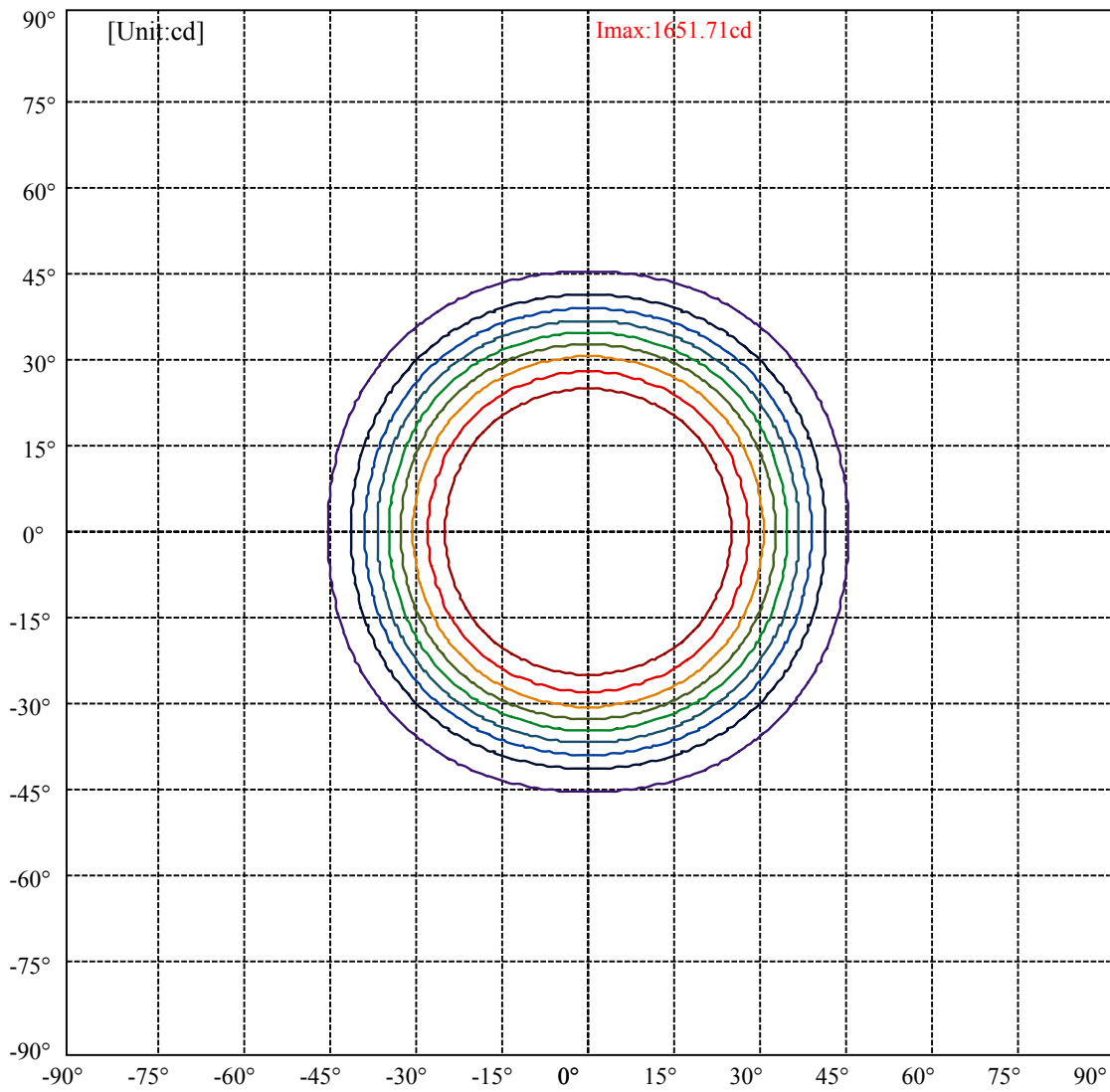
Field angle(10%Imax):C0/180Left:59.8 Right:29.8

:C90/270Left:59.8 Right:29.8

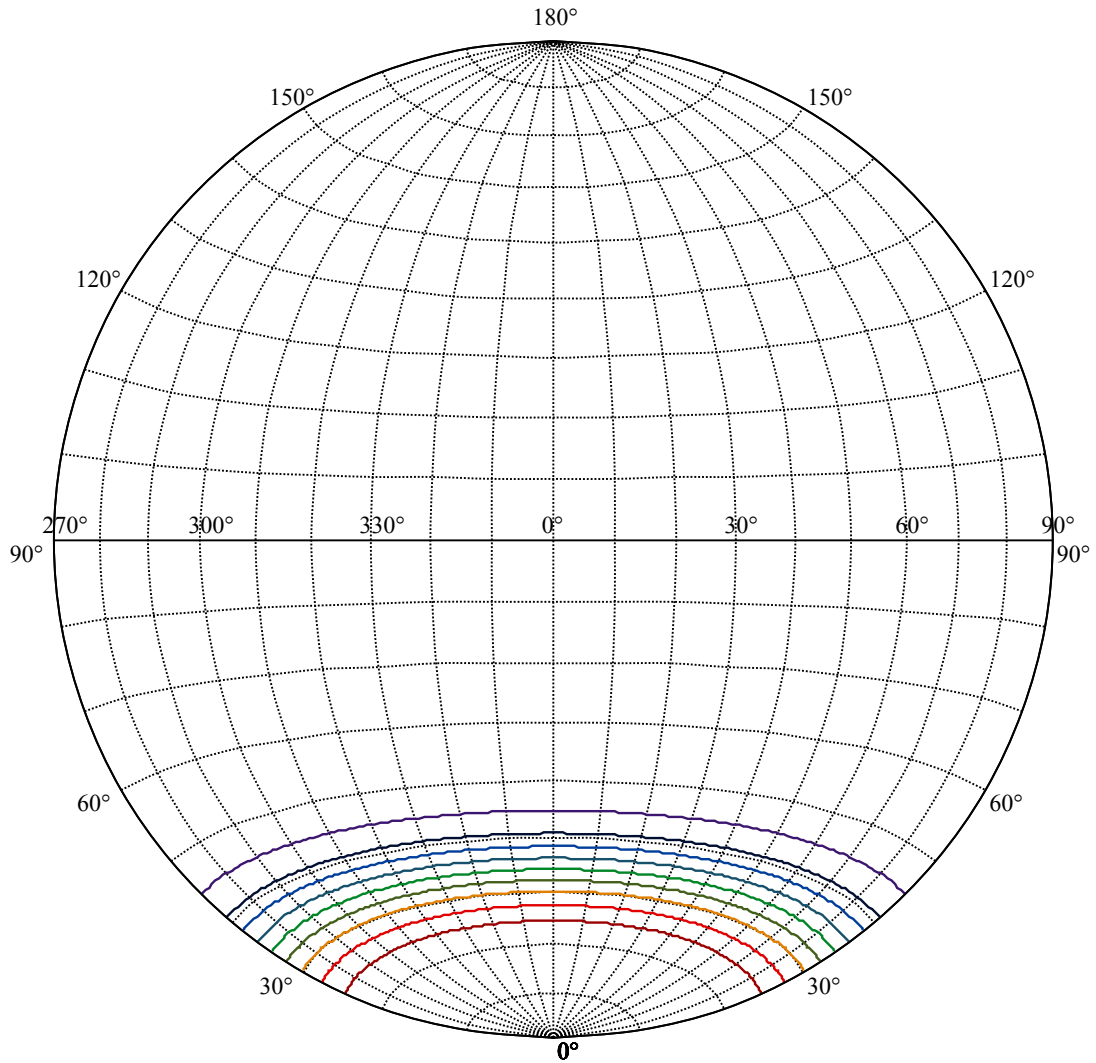
Beam Angle(50%Imax):C0/180Left:49.3 Right:19.3

:C90/270Left:49.3 Right:19.3





(10%Imax) 165.171	—
(20%Imax) 330.342	—
(30%Imax) 495.513	—
(40%Imax) 660.684	—
(50%Imax) 825.855	—
(60%Imax) 991.026	—
(70%Imax) 1156.2	—
(80%Imax) 1321.37	—
(90%Imax) 1486.54	—



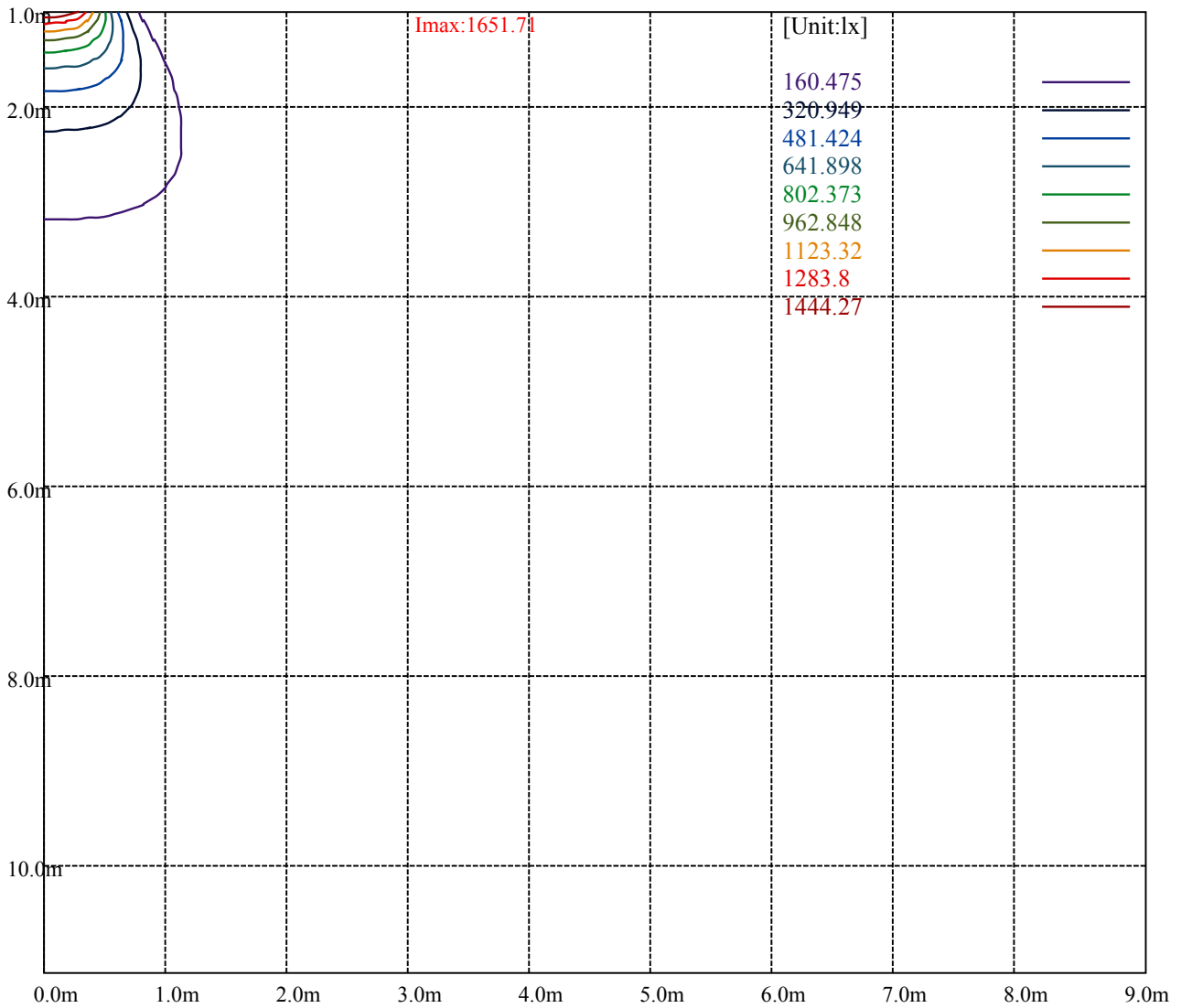
House

[Unit:cd]

Road

I_{max}:1651.71

(10%I _{max})	165.171	—
(20%I _{max})	330.342	—
(30%I _{max})	495.513	—
(40%I _{max})	660.684	—
(50%I _{max})	825.855	—
(60%I _{max})	991.026	—
(70%I _{max})	1156.2	—
(80%I _{max})	1321.37	—
(90%I _{max})	1486.54	—



NT 2-1565-M 铝反光罩

Luminance Limiting Curve(no luminous side)

Luminance Table

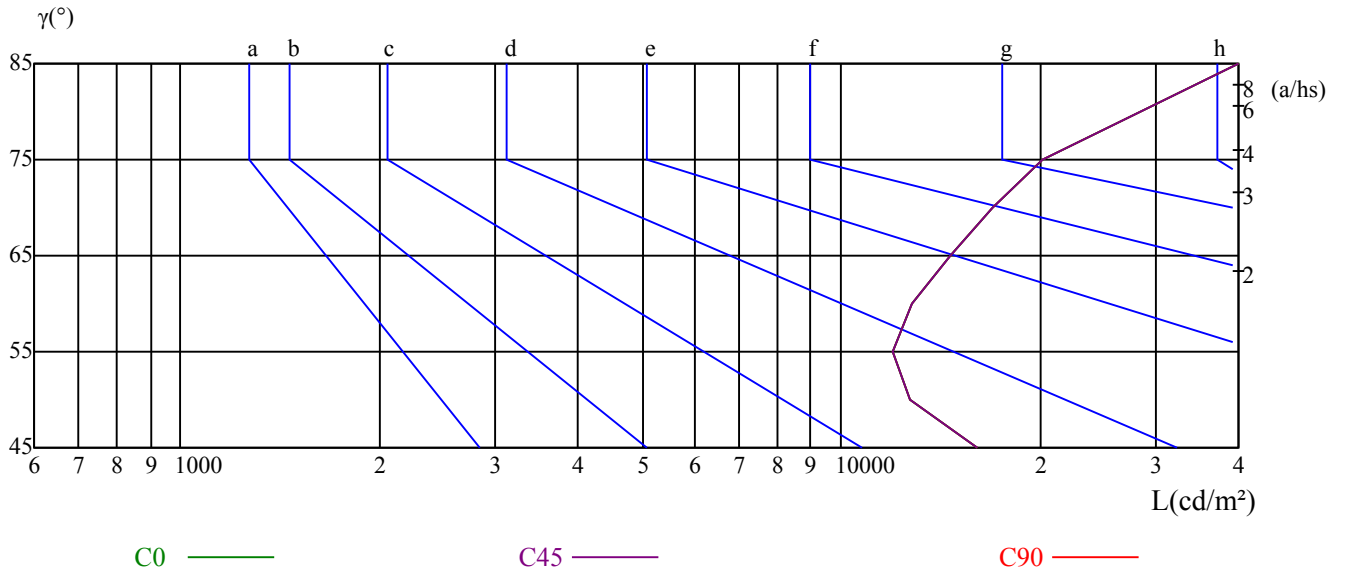
γ	45	50	55	60	65	70	75	80	85
C0	16110	12707	11994	12838	14615	16996	20243	28497	54367
C45	16110	12707	11994	12838	14615	16996	20243	28497	54367
C90	16110	12707	11994	12838	14615	16996	20243	28497	54367

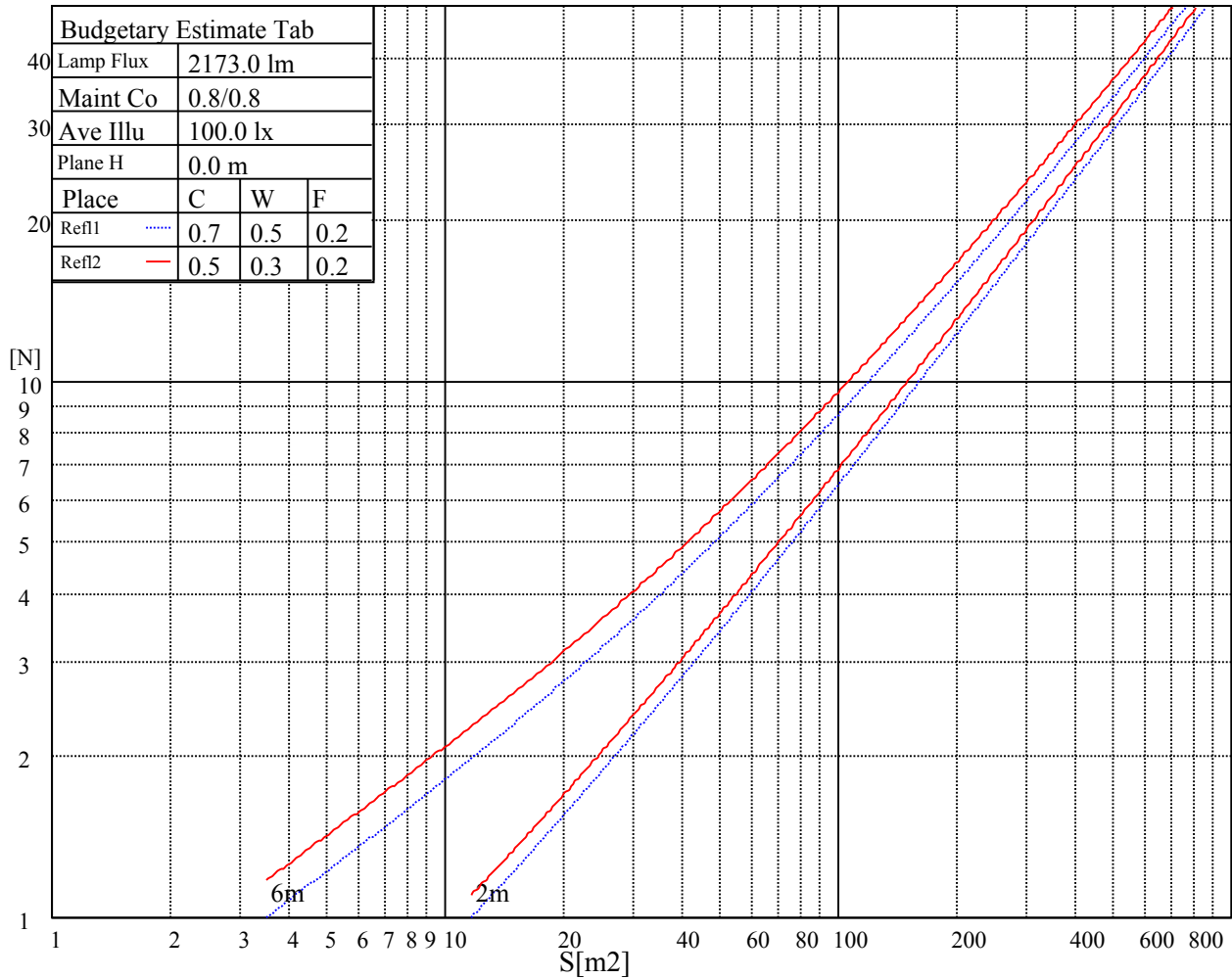
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
14615	14615	14615	20243	20243	20243	54367	54367	54367

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 Limiting Curve

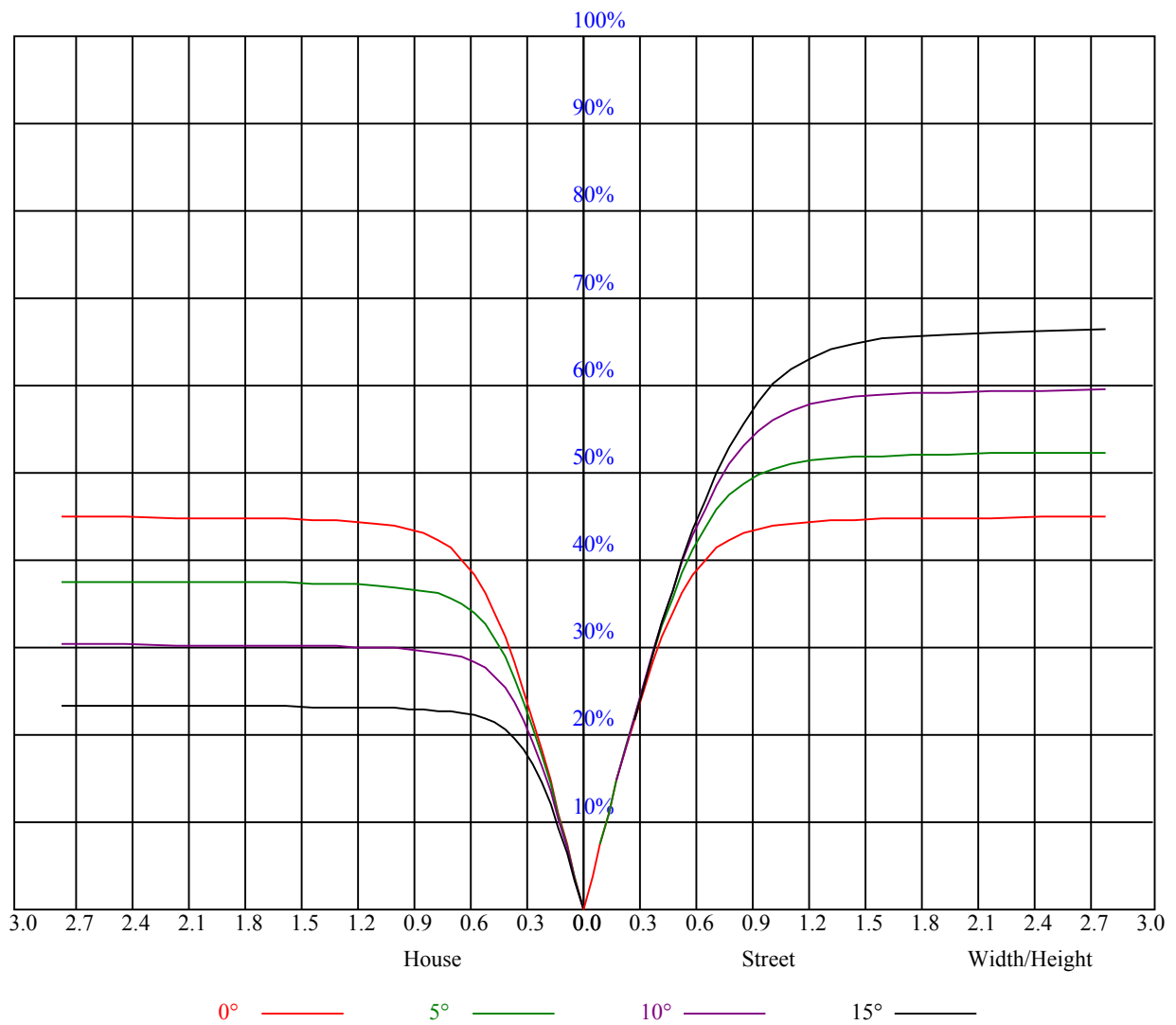


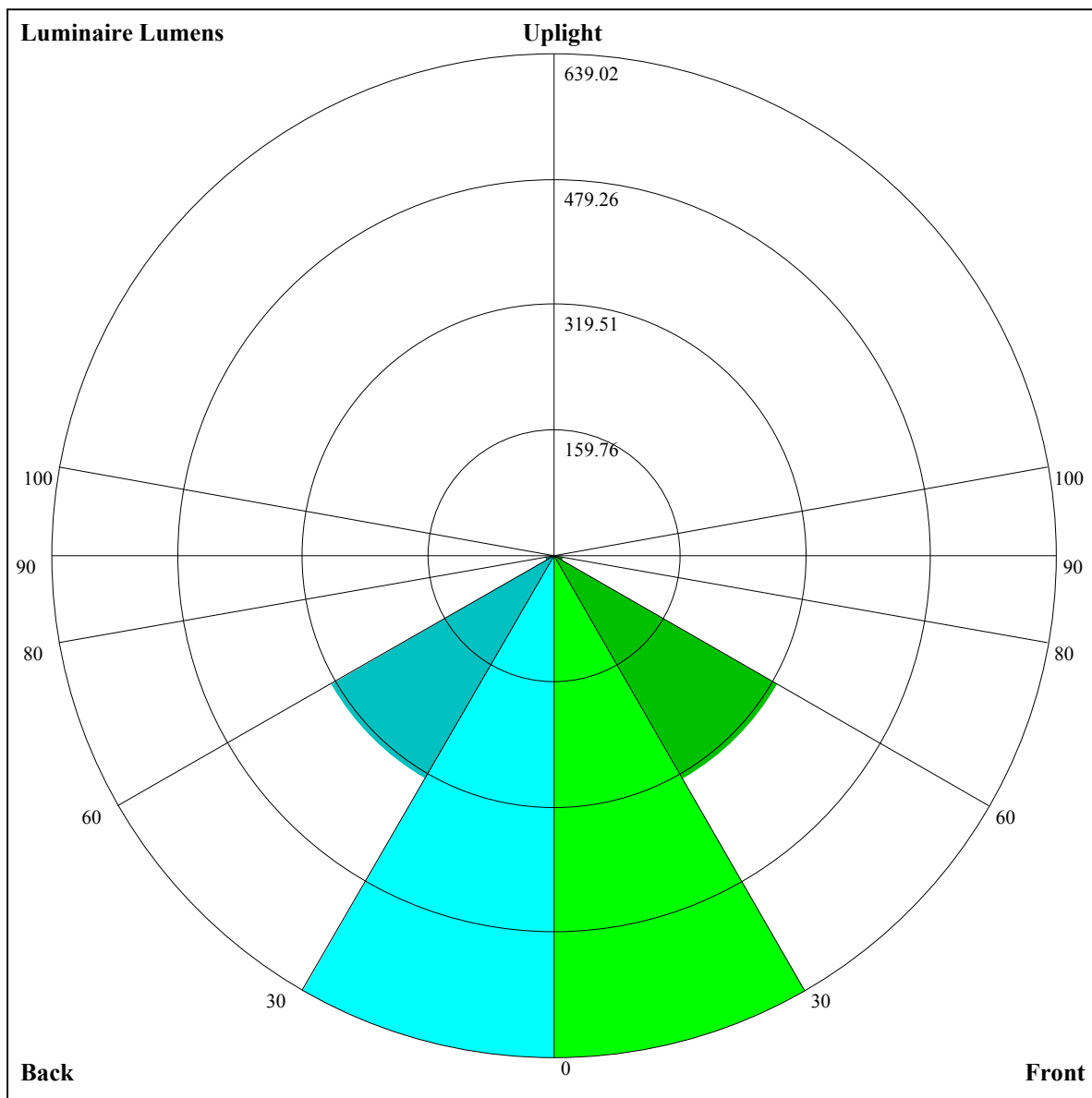


NT 2-1565-M 铝反光罩

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	COEFFICIENTS OF UTILIZATION RHOF=20 CU															
0	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	0.99	0.97	0.95	0.98	0.95	0.93	0.94	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.92	0.88	0.85	0.90	0.87	0.84	0.87	0.85	0.82	0.85	0.82	0.80	0.82	0.80	0.79	0.77
3	0.85	0.80	0.77	0.84	0.80	0.76	0.82	0.78	0.75	0.79	0.76	0.74	0.77	0.75	0.72	0.71
4	0.79	0.74	0.70	0.78	0.73	0.69	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.69	0.67	0.65
5	0.74	0.68	0.64	0.73	0.68	0.64	0.71	0.67	0.63	0.70	0.66	0.62	0.68	0.65	0.62	0.61
6	0.69	0.63	0.59	0.68	0.63	0.59	0.67	0.62	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.56
7	0.64	0.58	0.54	0.64	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.53	0.52
8	0.60	0.54	0.51	0.60	0.54	0.50	0.59	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.48
9	0.57	0.51	0.47	0.56	0.51	0.47	0.55	0.50	0.47	0.54	0.50	0.47	0.54	0.49	0.46	0.45
10	0.53	0.48	0.44	0.53	0.47	0.44	0.52	0.47	0.44	0.51	0.47	0.44	0.51	0.46	0.43	0.42





Luminaire Lumens:

FL=639.02,FM=328.67,FH=11.37,FVH=4.03

BL=639.02,BM=328.67,BH=11.37,BVH=4.03

UL=0,UH=0

BUG Rating:B2-U0-G0

NT 2-1565-M 铝反光罩

Intensity data(cd)										Appendix Page: 17 Total:19
C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	
0.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
45.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
90.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
135.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
180.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
225.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
270.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
315.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
360.0	1604.75	1605.48	1606.72	1608.40	1610.82	1613.09	1618.13	1622.38	1626.84	
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	
0.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
45.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
90.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
135.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
180.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
225.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
270.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
315.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
360.0	1632.25	1637.30	1641.18	1645.05	1648.49	1650.69	1651.71	1650.61	1646.30	
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0	
0.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
45.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
90.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
135.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
180.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
225.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
270.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
315.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
360.0	1638.69	1627.28	1611.55	1592.02	1568.39	1542.13	1509.79	1472.92	1430.57	
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0	
0.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
45.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
90.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
135.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
180.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
225.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
270.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
315.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
360.0	1361.20	1291.90	1223.62	1170.26	1092.99	1012.94	933.70	852.41	767.90	
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	
0.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
45.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
90.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
135.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
180.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
225.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
270.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
315.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	
360.0	687.67	609.44	530.43	454.63	384.63	319.68	272.67	226.17	188.62	

NT 2-1565-M 铝反光罩

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	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
45.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
90.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
135.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
180.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
225.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
270.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
315.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
360.0	160.83	131.76	115.78	101.60	89.29	78.97	70.34	62.31	54.84
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
45.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
90.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
135.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
180.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
225.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
270.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
315.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
360.0	48.60	43.18	38.24	34.08	30.20	27.08	24.10	21.60	19.30
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
45.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
90.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
135.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
180.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
225.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
270.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
315.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
360.0	17.37	15.48	13.94	12.55	11.30	10.28	9.39	8.72	8.16
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
45.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
90.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
135.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
180.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
225.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
270.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
315.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
360.0	7.78	7.56	7.46	7.44	7.43	7.42	7.43	7.42	7.41
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
45.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
90.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
135.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
180.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
225.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
270.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
315.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37
360.0	7.41	7.40	7.40	7.40	7.39	7.40	7.39	7.39	7.37

NT 2-1565-M 铝反光罩

Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	7.39
45.0	7.39
90.0	7.39
135.0	7.39
180.0	7.39
225.0	7.39
270.0	7.39
315.0	7.39
360.0	7.39