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Nata

Client: NT

LumCAT: 3-2997-LM2

Luminaire: BJB47.360.2100

Report No: 20260513-B008

Ballast type: DC

Test No: 20260513-C008

Voltage(V): 51.010

LampCAT: Bridgelux V22 GEN8

Current(A): 0.955

Lamp flux(lm): 8107.8

Power (W): 48.710

Number of Lamps: 1

PF: 0.000

Length(mm): 92

Width(mm): 92

Phm Type: C

Height(mm): 49

Photometric Results

Lumens(lm): 7669.43, Efficiency(%): 94.59% , Luminous Efficacy(lm/W): 157.45

Central intensity(cd): 14099.790, Maximum intensity(cd): 14099.790

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=40.8

[C90/270]Total=40.8

Field angle(10%Imax): [C0/180]Total=75.0

[C90/270]Total=75.0

Maximum s/h(1/2): C0_180=0.67 C90_270=0.67

Maximum s/h(1/4): C0_180=0.65 C90_270=0.65

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.59%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.369%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14099.791	0.000	0	0.00%	0.00%
1.0	14083.114	13.485	13.485	0.17%	0.18%
2.0	14031.513	40.353	53.838	0.50%	0.70%
3.0	13952.536	66.929	120.766	0.83%	1.57%
4.0	13859.401	93.095	213.862	1.15%	2.79%
5.0	13739.626	118.730	332.591	1.46%	4.34%
6.0	13597.301	143.663	476.254	1.77%	6.21%
7.0	13435.258	167.791	644.045	2.07%	8.40%
8.0	13238.395	190.898	834.943	2.35%	10.89%
9.0	13020.765	212.816	1047.759	2.62%	13.66%
10.0	12734.227	233.073	1280.833	2.87%	16.70%
11.0	12416.330	251.306	1532.138	3.10%	19.98%
12.0	12026.064	267.190	1799.329	3.30%	23.46%
13.0	11574.127	280.075	2079.403	3.45%	27.11%
14.0	11101.529	290.246	2369.65	3.58%	30.90%
15.0	10570.511	297.523	2667.173	3.67%	34.78%
16.0	9955.693	300.766	2967.939	3.71%	38.70%
17.0	9336.260	300.427	3268.367	3.71%	42.62%
18.0	8664.281	296.790	3565.157	3.66%	46.49%
19.0	7995.973	289.854	3855.011	3.58%	50.26%
20.0	7330.077	280.509	4135.52	3.46%	53.92%
21.0	6683.060	269.081	4404.601	3.32%	57.43%
22.0	6044.329	255.762	4660.363	3.15%	60.77%
23.0	5464.017	241.476	4901.839	2.98%	63.91%
24.0	4960.373	227.915	5129.754	2.81%	66.89%
25.0	4482.321	214.706	5344.46	2.65%	69.69%
26.0	4059.961	201.642	5546.102	2.49%	72.31%
27.0	3713.116	190.170	5736.272	2.35%	74.79%
28.0	3405.288	180.223	5916.495	2.22%	77.14%
29.0	3145.285	171.381	6087.876	2.11%	79.38%
30.0	2912.552	163.560	6251.436	2.02%	81.51%
31.0	2709.396	156.451	6407.887	1.93%	83.55%
32.0	2511.064	149.560	6557.447	1.84%	85.50%
33.0	2252.561	140.338	6697.785	1.73%	87.33%
34.0	2105.307	131.882	6829.667	1.63%	89.05%
35.0	1858.236	123.093	6952.76	1.52%	90.66%
36.0	1671.211	112.378	7065.138	1.39%	92.12%
37.0	1507.605	103.675	7168.814	1.28%	93.47%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1291.160	93.419	7262.233	1.15%	94.69%
39.0	1068.297	80.535	7342.767	0.99%	95.74%
40.0	869.608	67.587	7410.355	0.83%	96.62%
41.0	681.848	55.247	7465.601	0.68%	97.34%
42.0	513.439	43.427	7509.028	0.54%	97.91%
43.0	395.206	33.659	7542.687	0.42%	98.35%
44.0	212.302	22.929	7565.616	0.28%	98.65%
45.0	169.112	14.658	7580.274	0.18%	98.84%
46.0	84.503	9.918	7590.192	0.12%	98.97%
47.0	42.477	5.050	7595.243	0.06%	99.03%
48.0	33.227	3.060	7598.303	0.04%	99.07%
49.0	28.486	2.534	7600.837	0.03%	99.11%
50.0	25.224	2.239	7603.077	0.03%	99.13%
51.0	23.053	2.043	7605.119	0.03%	99.16%
52.0	21.700	1.920	7607.04	0.02%	99.19%
53.0	20.851	1.851	7608.891	0.02%	99.21%
54.0	20.179	1.808	7610.699	0.02%	99.23%
55.0	19.571	1.774	7612.473	0.02%	99.26%
56.0	19.089	1.747	7614.22	0.02%	99.28%
57.0	18.669	1.726	7615.947	0.02%	99.30%
58.0	18.239	1.707	7617.653	0.02%	99.32%
59.0	17.903	1.690	7619.343	0.02%	99.35%
60.0	17.589	1.677	7621.02	0.02%	99.37%
61.0	17.327	1.666	7622.686	0.02%	99.39%
62.0	17.096	1.659	7624.345	0.02%	99.41%
63.0	16.907	1.654	7625.999	0.02%	99.43%
64.0	16.687	1.648	7627.647	0.02%	99.46%
65.0	16.550	1.645	7629.292	0.02%	99.48%
66.0	16.404	1.644	7630.936	0.02%	99.50%
67.0	16.246	1.642	7632.578	0.02%	99.52%
68.0	16.089	1.638	7634.216	0.02%	99.54%
69.0	15.953	1.635	7635.85	0.02%	99.56%
70.0	15.806	1.631	7637.481	0.02%	99.58%
71.0	15.680	1.627	7639.109	0.02%	99.60%
72.0	15.554	1.624	7640.733	0.02%	99.63%
73.0	15.449	1.621	7642.354	0.02%	99.65%
74.0	15.313	1.617	7643.971	0.02%	99.67%
75.0	15.218	1.613	7645.584	0.02%	99.69%

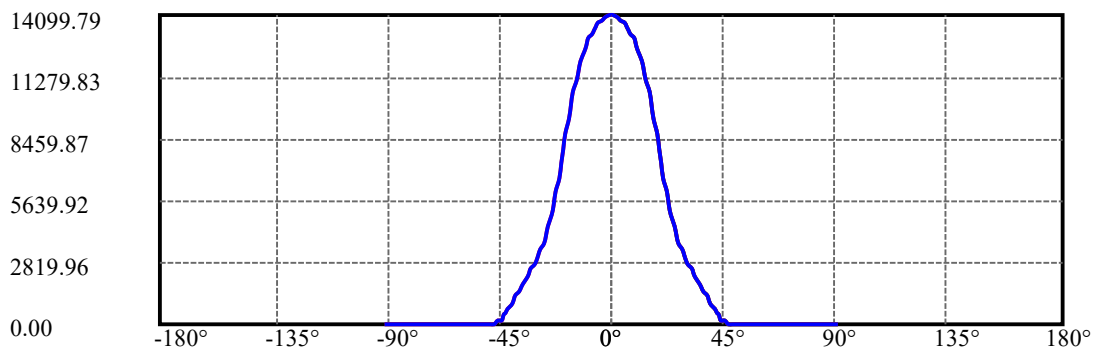
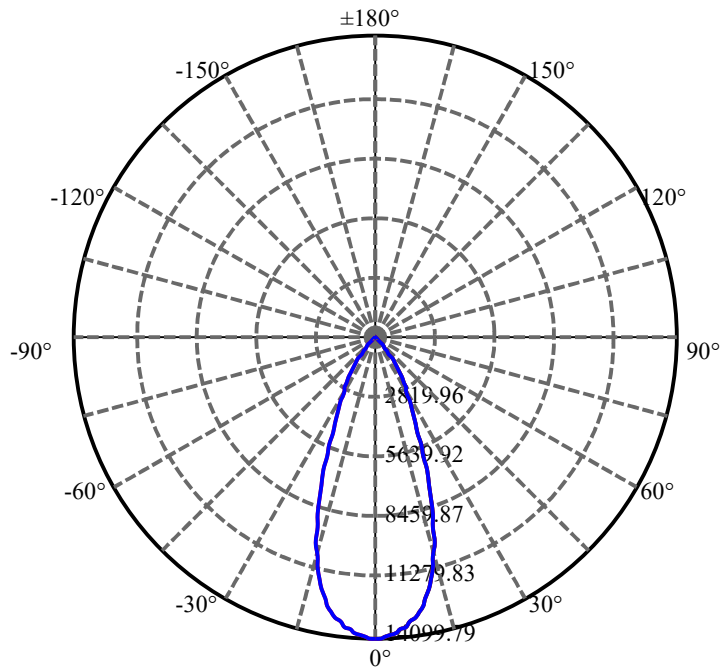
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	15.113	1.610	7647.195	0.02%	99.71%
77.0	15.040	1.608	7648.802	0.02%	99.73%
78.0	14.946	1.605	7650.407	0.02%	99.75%
79.0	14.872	1.602	7652.009	0.02%	99.77%
80.0	14.799	1.600	7653.609	0.02%	99.79%
81.0	14.736	1.597	7655.206	0.02%	99.81%
82.0	14.694	1.596	7656.802	0.02%	99.84%
83.0	14.610	1.593	7658.395	0.02%	99.86%
84.0	14.547	1.588	7659.984	0.02%	99.88%
85.0	14.474	1.584	7661.568	0.02%	99.90%
86.0	14.432	1.580	7663.148	0.02%	99.92%
87.0	14.369	1.576	7664.724	0.02%	99.94%
88.0	14.337	1.572	7666.296	0.02%	99.96%
89.0	14.295	1.569	7667.866	0.02%	99.98%
90.0	14.253	1.565	7669.431	0.02%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	6251.44	77.10%	81.51%
0-40	7410.35	91.40%	96.62%
0-60	7621.02	94.00%	99.37%
0-90	7667.87	94.57%	99.98%
0-120	7667.87	94.57%	99.98%
0-180	7669.43	94.59%	100.00%
60-90	46.85	0.58%	0.61%
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%
0-29.29	6135.55	75.68%	80.00%

ZONAL LUMEN SUMMARY

0-10	1280.83
10-20	2854.69
20-30	2115.92
30-40	1158.92
40-50	192.72
50-60	17.94
60-70	16.46
70-80	16.13
80-90	14.26
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: —————

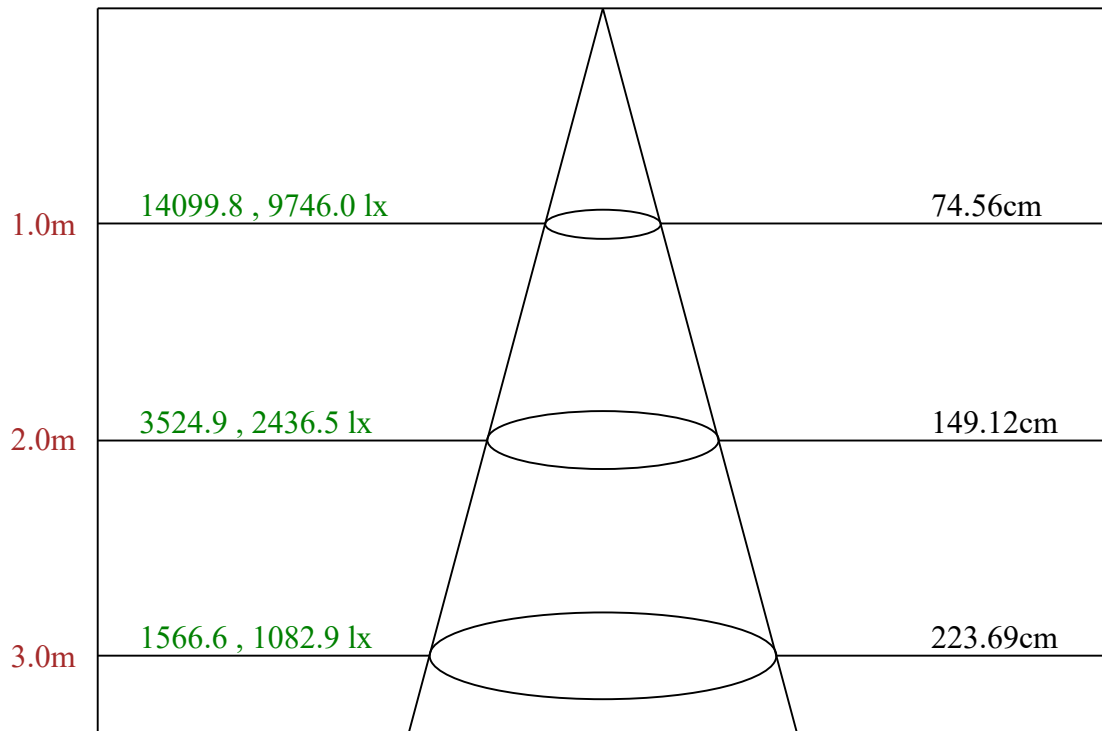
C90/C270: —————

Field angle(10%Imax):C0/180Left:37.5 Right:37.5

:C90/270Left:37.5 Right:37.5

Beam Angle(50%Imax):C0/180Left:20.4 Right:20.4

:C90/270Left:20.4 Right:20.4



Max , Ave Beam angle of C0 plane 40.89

Luminance Table

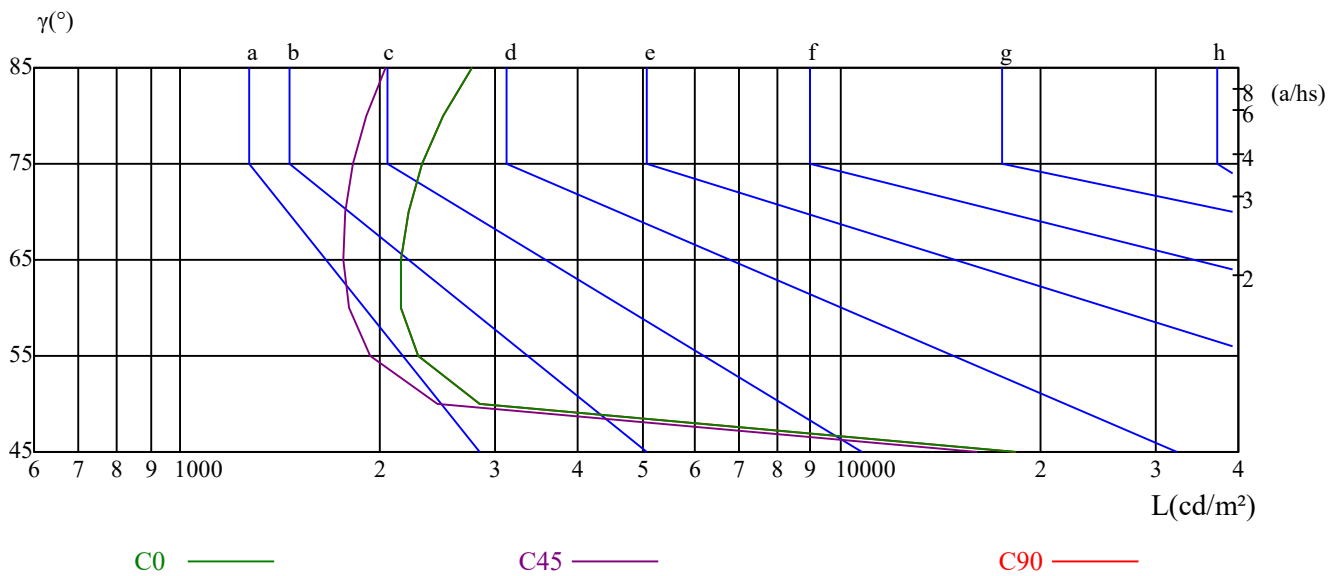
γ	45	50	55	60	65	70	75	80	85
C0	18437	2836	2290	2162	2160	2216	2325	2504	2768
C45	16117	2443	1942	1803	1769	1779	1823	1910	2042
C90	18437	2836	2290	2162	2160	2216	2325	2504	2768

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4627	4627	4627	6947	6947	6947	19620	19620	19620

Glare Table

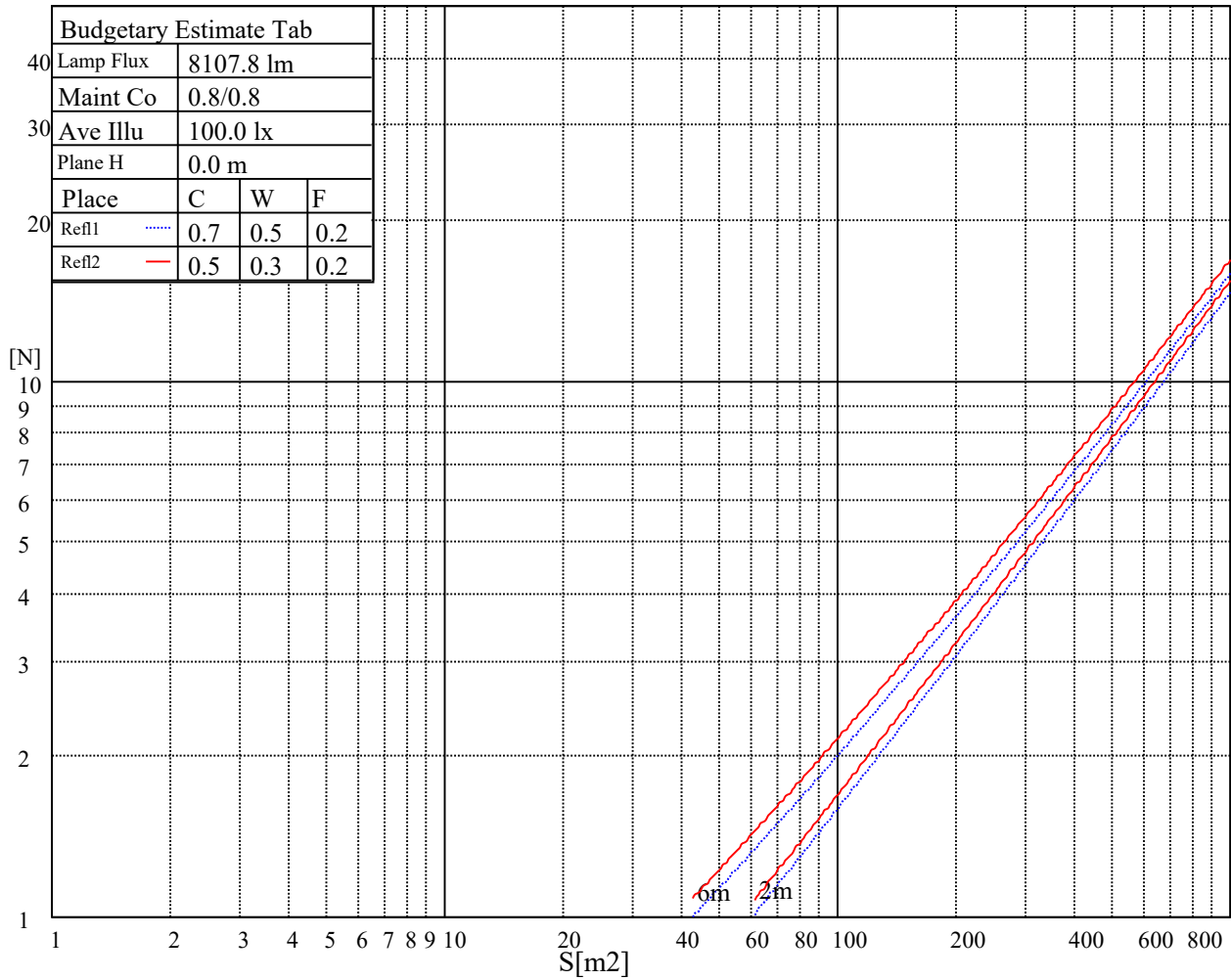
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



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	20.60	21.52	20.96	21.83	22.15	20.74	21.66	21.10	21.97	22.29
	3H	20.39	21.21	20.78	21.55	21.89	20.53	21.35	20.92	21.69	22.04
	4H	20.29	21.05	20.69	21.40	21.77	20.43	21.19	20.84	21.55	21.91
	6H	20.22	20.91	20.64	21.29	21.69	20.36	21.05	20.78	21.43	21.83
	8H	20.15	20.81	20.58	21.20	21.61	20.29	20.95	20.72	21.34	21.75
	12H	20.10	20.72	20.52	21.12	21.54	20.24	20.86	20.66	21.26	21.67
4H	2H	20.27	21.03	20.67	21.38	21.75	20.41	21.17	20.81	21.53	21.89
	3H	20.03	20.66	20.46	21.06	21.48	20.17	20.81	20.60	21.20	21.62
	4H	19.97	20.51	20.41	20.94	21.39	20.11	20.65	20.55	21.08	21.53
	6H	19.85	20.33	20.33	20.79	21.24	19.99	20.47	20.47	20.93	21.38
	8H	19.81	20.26	20.30	20.72	21.20	19.95	20.40	20.44	20.86	21.33
	12H	19.79	20.20	20.28	20.66	21.18	19.93	20.34	20.42	20.79	21.31
8H	4H	19.77	20.21	20.25	20.67	21.15	19.91	20.35	20.39	20.81	21.29
	6H	19.65	20.02	20.16	20.50	21.01	19.79	20.15	20.30	20.63	21.15
	8H	19.67	19.98	20.21	20.50	21.00	19.81	20.11	20.34	20.63	21.13
	12H	19.67	19.90	20.22	20.42	20.94	19.80	20.03	20.35	20.55	21.07
12H	4H	19.71	20.12	20.21	20.58	21.10	19.85	20.26	20.35	20.72	21.24
	6H	19.64	19.94	20.18	20.47	20.97	19.78	20.08	20.31	20.61	21.10
	8H	19.63	19.86	20.18	20.38	20.90	19.77	19.99	20.31	20.51	21.04
Variation with the observer position at spacings:											
S = 1.0H	5.2/-13.6					5.2/-13.6					
S = 1.5H	7.9/-11.8					7.9/-11.8					
S = 2.0H	9.8/-10.5					9.8/-10.5					
Standard tables:	BK0					BK0					
Uncorrected UGR	0.5					0.5					

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



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 RHOFC=20 CU															
0	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.87	0.86	0.84
3	0.93	0.89	0.86	0.92	0.88	0.85	0.90	0.86	0.84	0.87	0.85	0.82	0.85	0.83	0.81	0.80
4	0.88	0.83	0.80	0.87	0.83	0.79	0.85	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.75
5	0.83	0.79	0.75	0.83	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.71
6	0.79	0.74	0.71	0.78	0.74	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.68
7	0.75	0.70	0.67	0.75	0.70	0.67	0.74	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
8	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.66	0.62	0.59	0.58
10	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.56

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	14129.79	14107.97	14027.42	13932.61	13815.98	13648.17	13497.98	13355.34	13215.22
45.0	14122.24	14133.98	14129.79	14072.73	13981.27	13881.43	13750.53	13591.11	13393.93
90.0	14113.84	14112.17	14073.57	14002.25	13911.63	13758.92	13618.80	13466.09	13269.75
135.0	14033.30	14085.32	14090.35	14072.73	14034.13	13951.91	13842.83	13727.04	13581.04
180.0	14129.79	14124.75	14081.12	14019.87	13917.51	13811.78	13709.42	13573.49	13357.86
225.0	14122.24	14056.79	13983.79	13877.23	13776.54	13653.20	13452.67	13246.26	12993.71
270.0	14113.84	14082.80	14030.78	13914.15	13821.01	13716.97	13600.34	13411.56	13215.22
315.0	14033.30	13961.14	13835.28	13728.72	13617.12	13494.62	13305.83	13111.17	12880.43
360.0	14129.79	14107.97	14027.42	13932.61	13815.98	13648.17	13497.98	13355.34	13215.22
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	12976.08	12741.15	12470.97	12151.29	11674.71	11231.69	10786.15	10161.89	9626.57
45.0	13232.00	13046.57	12778.91	12522.16	12204.99	11757.78	11349.99	10898.58	10306.21
90.0	13074.25	12858.62	12526.35	12204.99	11841.68	11432.22	10880.96	10392.63	9869.90
135.0	13450.15	13287.37	13080.13	12772.19	12468.46	12107.66	11698.20	11116.74	10592.33
180.0	13148.09	12882.95	12560.75	12180.66	11635.27	11133.52	10592.33	9854.80	9210.40
225.0	12697.52	12246.95	11834.97	11367.61	10713.15	10133.36	9514.14	8862.19	8006.36
270.0	12983.64	12627.04	12281.35	11768.68	11302.17	10791.18	10239.08	9477.22	8842.06
315.0	12604.38	12183.18	11797.21	11240.92	10752.59	10224.82	9503.23	8881.49	8236.26
360.0	12976.08	12741.15	12470.97	12151.29	11674.71	11231.69	10786.15	10161.89	9626.57
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	8906.66	8291.64	7674.09	7050.67	6286.29	5716.57	5207.27	4745.78	4237.32
45.0	9788.51	9251.52	8670.89	7926.65	7324.20	6730.99	6155.40	5500.10	5024.35
90.0	9178.52	8585.30	7973.63	7364.48	6614.36	6036.25	5513.52	4920.31	4510.01
135.0	10025.12	9269.14	8634.81	7990.41	7163.94	6525.42	5789.57	5260.13	4775.99
180.0	8352.89	7662.34	6994.45	6179.73	5587.36	5055.40	4583.85	4076.22	3721.30
225.0	7314.14	6648.76	5871.80	5318.02	4825.49	4282.63	3902.53	3570.27	3224.58
270.0	8184.24	7512.99	6705.82	6086.60	5513.52	4880.03	4438.69	4044.33	3614.74
315.0	7564.17	6746.09	6115.12	5547.92	5039.45	4484.84	4092.16	3741.43	3371.41
360.0	8906.66	8291.64	7674.09	7050.67	6286.29	5716.57	5207.27	4745.78	4237.32
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	3879.04	3561.88	3283.31	2988.80	2810.08	2602.84	2424.12	2237.85	1653.19
45.0	4593.08	4112.30	3775.84	3411.69	3147.38	2932.58	2759.74	2535.71	2346.92
90.0	4042.66	3715.42	3427.63	3164.16	2903.22	2723.66	2529.00	2326.79	1924.88
135.0	4349.75	3878.20	3552.65	3270.72	3034.95	2810.08	2641.43	2461.87	2277.28
180.0	3405.81	3152.42	2887.28	2732.89	2581.86	2384.68	2209.32	2013.82	1783.92
225.0	2998.03	2820.99	2680.87	2490.40	2325.95	2153.94	1645.56	1645.56	1546.46
270.0	3319.39	3092.01	2845.32	2698.49	2545.78	2334.34	2164.85	1974.38	1778.88
315.0	3117.18	2909.09	2709.40	2543.26	2325.95	2146.39	1646.48	1646.48	1554.35
360.0	3879.04	3561.88	3283.31	2988.80	2810.08	2602.84	2424.12	2237.85	1653.19
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1653.19	1606.37	1413.47	1165.78	971.96	787.37	606.30	402.66	263.80
45.0	2148.91	1950.89	1692.46	1477.66	1273.77	1071.56	826.55	643.64	440.59
90.0	1672.74	1672.74	1472.63	1218.81	1022.05	833.43	610.08	446.04	266.32
135.0	2043.19	1851.88	1601.84	1395.43	1193.22	958.29	778.73	602.53	435.55
180.0	1591.77	1383.69	1146.23	956.61	766.14	576.52	441.43	441.43	109.50
225.0	1344.25	1089.68	885.96	649.01	474.32	320.27	163.11	78.62	43.80
270.0	1552.34	1338.38	1145.40	951.57	706.57	520.30	434.71	434.71	86.09
315.0	1363.30	1167.21	971.29	731.49	548.83	387.06	246.60	112.01	52.78
360.0	1653.19	1606.37	1413.47	1165.78	971.96	787.37	606.30	402.66	263.80

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	151.87	61.42	43.71	37.17	30.63	25.51	23.24	21.98	21.23
45.0	440.59	269.67	69.47	46.06	39.02	31.97	26.93	23.83	22.49
90.0	148.26	72.66	47.49	38.76	33.06	28.02	25.17	23.58	22.65
135.0	435.55	132.07	60.83	42.54	34.49	29.45	25.26	23.16	21.82
180.0	51.69	38.26	32.89	27.60	22.99	21.73	20.98	20.22	19.63
225.0	37.09	31.55	25.17	22.82	21.65	20.98	20.22	19.63	19.13
270.0	47.99	38.09	32.39	27.27	24.08	22.99	22.15	21.40	20.56
315.0	39.86	32.30	27.86	23.58	21.98	21.14	20.47	19.80	19.30
360.0	151.87	61.42	43.71	37.17	30.63	25.51	23.24	21.98	21.23
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	20.47	19.80	19.30	18.88	18.46	18.04	17.79	17.45	17.28
45.0	21.40	20.72	20.05	19.55	18.96	18.54	18.12	17.79	17.54
90.0	21.90	21.06	20.39	19.89	19.30	18.88	18.38	18.04	17.79
135.0	21.06	20.14	19.63	19.05	18.54	18.12	17.79	17.54	17.20
180.0	19.05	18.63	18.29	17.96	17.62	17.37	17.12	16.95	16.70
225.0	18.63	18.21	17.87	17.62	17.37	17.12	16.95	16.78	16.53
270.0	20.05	19.55	19.13	18.63	18.21	17.87	17.54	17.28	17.12
315.0	18.88	18.46	18.04	17.79	17.45	17.28	17.03	16.78	16.61
360.0	20.47	19.80	19.30	18.88	18.46	18.04	17.79	17.45	17.28
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	17.03	16.87	16.78	16.61	16.45	16.28	16.11	16.03	15.86
45.0	17.28	17.03	16.87	16.70	16.53	16.36	16.28	16.11	15.94
90.0	17.54	17.20	17.03	16.87	16.70	16.45	16.28	16.11	15.94
135.0	16.95	16.70	16.61	16.45	16.28	16.11	15.94	15.77	15.69
180.0	16.61	16.45	16.28	16.19	16.03	15.86	15.77	15.61	15.52
225.0	16.45	16.28	16.11	16.03	15.86	15.77	15.69	15.52	15.35
270.0	16.95	16.70	16.61	16.36	16.28	16.11	15.94	15.77	15.69
315.0	16.45	16.28	16.11	16.03	15.86	15.77	15.61	15.52	15.44
360.0	17.03	16.87	16.78	16.61	16.45	16.28	16.11	16.03	15.86
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	15.69	15.61	15.52	15.44	15.35	15.27	15.19	15.10	15.02
45.0	15.77	15.69	15.61	15.44	15.35	15.27	15.19	15.02	14.94
90.0	15.86	15.69	15.52	15.44	15.27	15.19	15.10	14.94	14.85
135.0	15.61	15.44	15.27	15.19	15.10	15.02	14.94	14.85	14.77
180.0	15.44	15.35	15.19	15.10	15.02	14.94	14.85	14.77	14.68
225.0	15.27	15.19	15.02	14.94	14.85	14.77	14.68	14.68	14.60
270.0	15.52	15.44	15.27	15.19	15.02	14.94	14.77	14.77	14.68
315.0	15.27	15.19	15.10	15.02	14.94	14.94	14.85	14.85	14.85
360.0	15.69	15.61	15.52	15.44	15.35	15.27	15.19	15.10	15.02
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.94	14.94	14.85	14.85	14.77	14.60	14.60	14.60	14.52
45.0	14.85	14.85	14.68	14.68	14.60	14.60	14.52	14.43	14.43
90.0	14.77	14.68	14.68	14.60	14.52	14.43	14.43	14.43	14.35
135.0	14.68	14.68	14.60	14.52	14.43	14.35	14.35	14.35	14.26
180.0	14.68	14.68	14.60	14.52	14.52	14.52	14.43	14.35	14.35
225.0	14.60	14.52	14.43	14.43	14.35	14.35	14.26	14.26	14.26
270.0	14.68	14.60	14.52	14.43	14.35	14.35	14.26	14.18	14.10
315.0	14.68	14.60	14.52	14.35	14.26	14.26	14.10	14.10	14.10
360.0	14.94	14.94	14.85	14.85	14.77	14.60	14.60	14.60	14.52

Intensity data(cd)

C/γ(°)	90.0
0.0	14.43
45.0	14.35
90.0	14.18
135.0	14.18
180.0	14.35
225.0	14.26
270.0	14.18
315.0	14.10
360.0	14.43