

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 118P108

Luminaire Tested: **2G-2U6A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 118P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2G-2U6A
Description: 2 X 2 Recessed Luminaire with a .095
Pattern 12 acrylic lens.
Light Source: Two - F40WW/U/6 - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-2S40-RH-TP Electronic - L.O.B.F. = Unknown

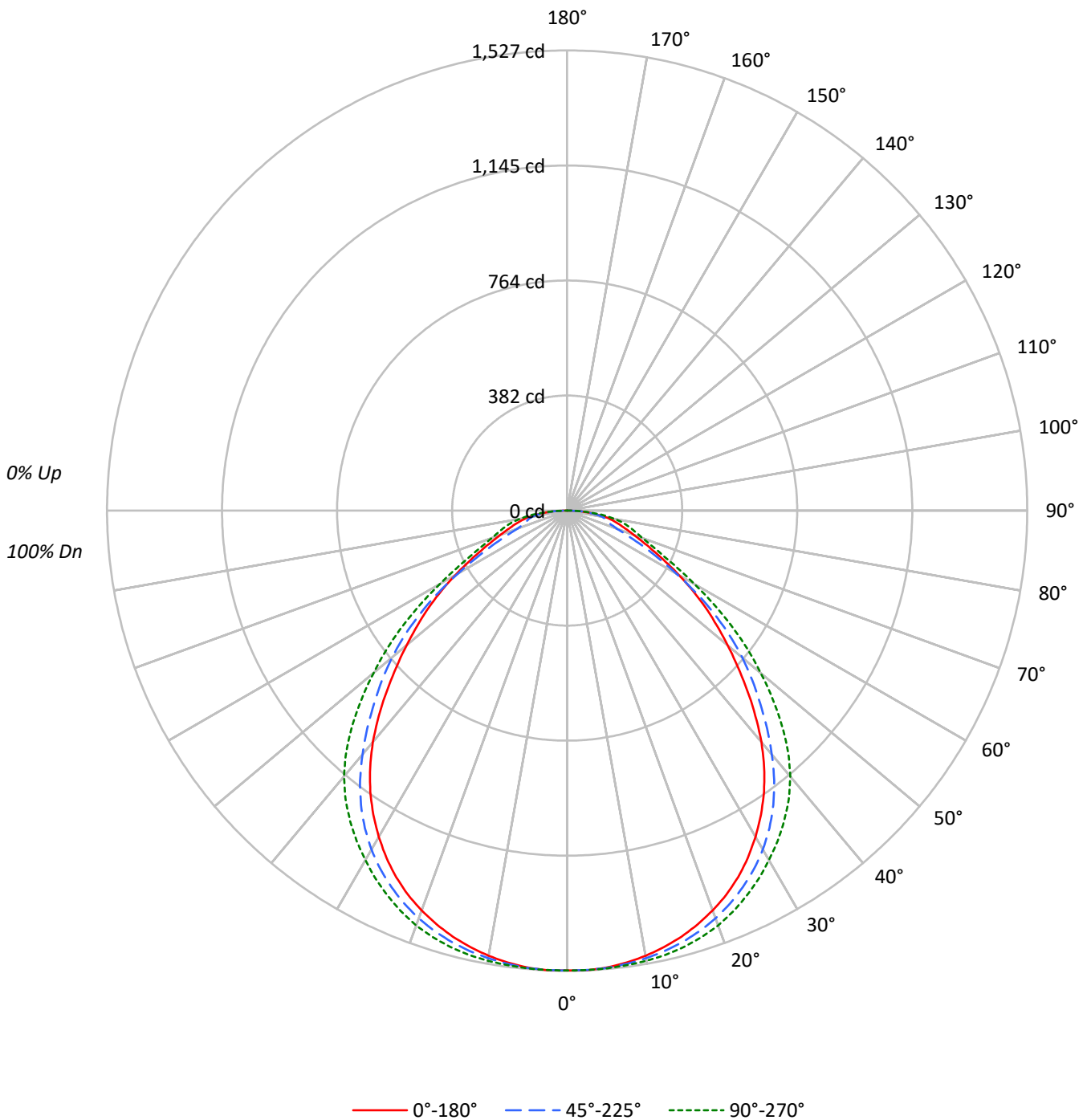
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3744.0 lumens
Efficiency: 64.6%
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.32
Luminous Opening: Rectangular (W 1.79' x L: 1.82' x H: 0')
CIE Type: Direct

Input Watts (W): 68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: 118P108
CATALOG NUMBER: 2G-2U6A

Luminous Intensity Polar Plot





TEST NUMBER: 118P108
 CATALOG NUMBER: 2G-2U6A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	71	68	65	63	69	66	64	62	64	62	60		61	60	58		59	58	56	55
2	65	60	56	52	63	59	55	52	56	53	51		54	52	49		52	50	48	47
3	60	53	48	44	58	52	48	44	50	46	43		49	45	42		47	44	42	40
4	55	48	42	38	53	47	42	38	45	41	37		44	40	37		42	39	36	35
5	51	43	37	33	49	42	37	33	41	36	33		39	35	32		38	35	32	31
6	47	39	33	29	46	38	33	29	37	32	29		36	32	29		35	31	28	27
7	44	35	30	26	43	35	30	26	34	29	26		33	29	26		32	28	25	24
8	41	32	27	23	40	32	27	23	31	26	23		30	26	23		29	26	23	22
9	38	30	25	21	37	29	24	21	29	24	21		28	24	21		27	23	21	20
10	36	27	22	19	35	27	22	19	26	22	19		26	22	19		25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5042	5042	5042
5°	5048	5051	5058
10°	5033	5059	5090
15°	5008	5069	5127
20°	4965	5063	5151
25°	4892	5027	5140
30°	4769	4956	5109
35°	4594	4812	5066
40°	4326	4559	4969
45°	3953	4233	4710
50°	3572	3896	4313
55°	3226	3422	3831
60°	2835	2769	3225
65°	2463	2134	2728
70°	2270	1700	2550
75°	2311	1774	2757
80°	2531	2245	3063
85°	2654	2540	3033



TEST NUMBER: 118P108
 CATALOG NUMBER: 2G-2U6A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	144.8	3.9	2.5	0°	1526	1526	1526	1526	1526	
10°-20°	417.9	11.2	7.2	5°	1522	1521	1523	1522	1525	145
20°-30°	633.7	16.9	10.9	15°	1464	1468	1482	1492	1499	413
30°-40°	744.2	19.9	12.8	25°	1342	1353	1379	1399	1410	617
40°-50°	704.0	18.8	12.1	35°	1139	1154	1193	1232	1256	709
50°-60°	534.3	14.3	9.2	45°	846	863	906	958	1008	653
60°-70°	310.0	8.3	5.3	55°	560	548	594	642	665	501
70°-80°	179.9	4.8	3.1	65°	315	285	273	330	349	318
80°-90°	75.2	2.0	1.3	75°	181	158	139	179	216	192
90°-100°	0.0	0.0	0.0	85°	70	68	67	79	80	69
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1196.4	32.0	20.6	165°	0	0	0	0	0	0
0°-40°	1940.6	51.8	33.5	175°	0	0	0	0	0	0
0°-60°	3179.0	84.9	54.8	180°	0	0	0	0	0	0
0°-90°	3744.0	100.0	64.6							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3744.0	100.0	64.6							



TEST NUMBER: 118P108
 CATALOG NUMBER: 2G-2U6A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1526	1526	1526	1526	1526
2.5°	1527	1525	1526	1524	1526
5°	1522	1521	1523	1522	1525
7.5°	1513	1513	1517	1518	1521
10°	1500	1501	1508	1512	1517
12.5°	1484	1486	1497	1503	1510
15°	1464	1468	1482	1492	1499
17.5°	1440	1446	1463	1476	1484
20°	1412	1419	1440	1455	1465
22.5°	1380	1389	1412	1429	1440
25°	1342	1353	1379	1399	1410
27.5°	1299	1312	1342	1364	1377
30°	1250	1264	1299	1325	1339
32.5°	1197	1212	1249	1282	1300
35°	1139	1154	1193	1232	1256
37.5°	1074	1090	1129	1175	1208
40°	1003	1020	1057	1109	1152
42.5°	925	943	982	1036	1085
45°	846	863	906	958	1008
47.5°	768	783	833	881	925
50°	695	704	758	805	839
52.5°	626	626	679	726	754
55°	560	548	594	642	665
57.5°	494	473	506	555	575
60°	429	403	419	471	488
62.5°	368	340	340	395	413
65°	315	285	273	330	349
67.5°	272	240	217	279	301
70°	235	207	176	240	264
72.5°	205	180	152	207	238
75°	181	158	139	179	216
77.5°	158	137	131	155	192
80°	133	115	118	132	161
82.5°	102	93	96	109	124
85°	70	68	67	79	80
87.5°	34	37	34	41	39
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



TEST NUMBER: 118P108
CATALOG NUMBER: 2G-2U6A

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)