

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: 14313

Luminaire Tested: **2P2GX-2U6T8S44I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14313
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S44I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR & 2" DEEP
16 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER
Light Source: TWO SYLVANIA 31 WATT 6" U-LAMPS

FB31T8/TL741/6. LUMEN RATING = 2650 LMS.

Ballast/Driver: -

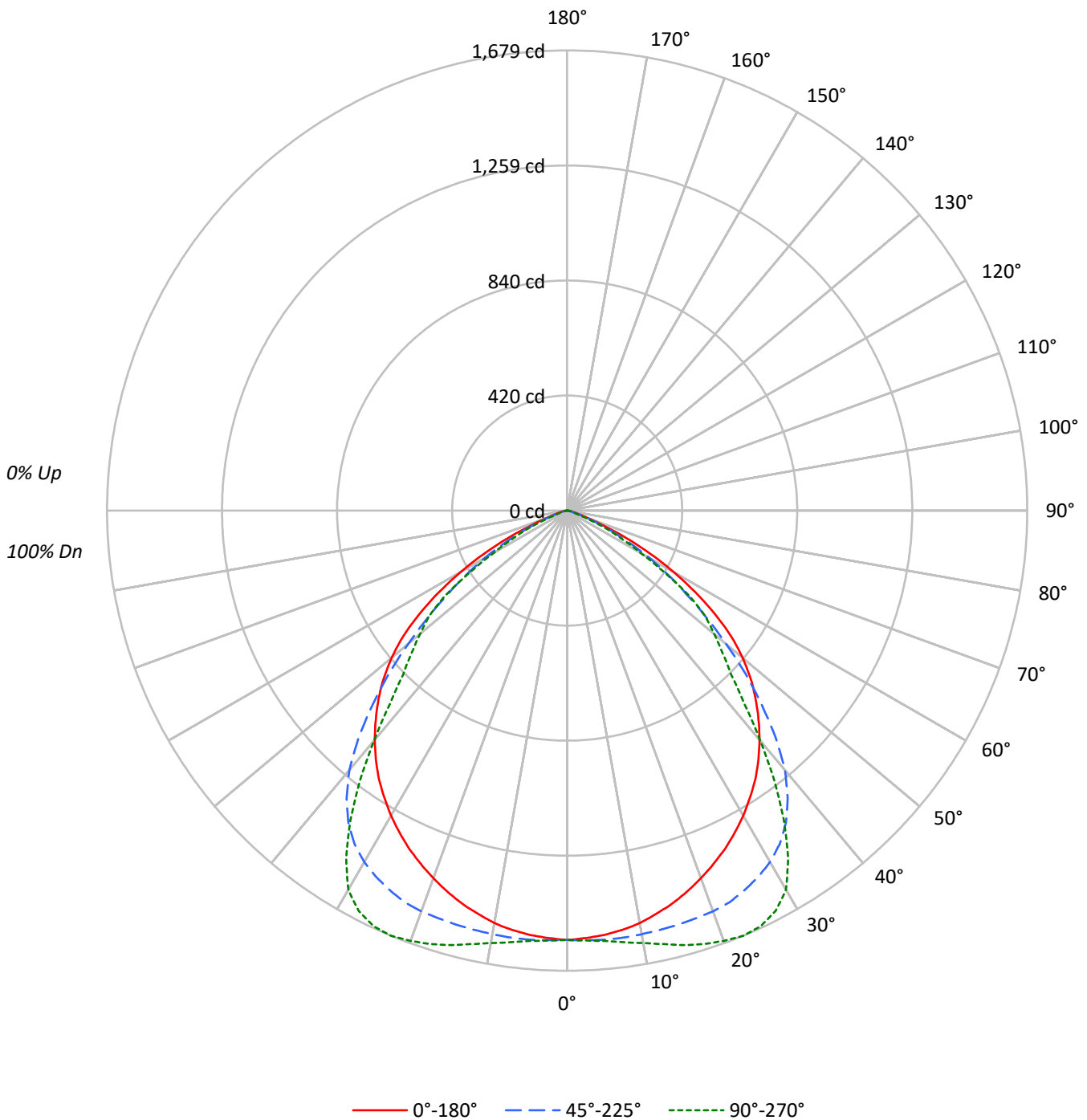
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3603.2 lumens
Efficiency: 68.0%
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.36
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): 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

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Luminous Intensity Polar Plot





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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	81	81	81	81	79	79	79	79	76	76	76	72	72	72	69	69	69	68
1	76	73	71	69	74	72	70	68	69	67	66	66	65	64	64	63	62	60
2	70	66	62	59	68	64	61	58	62	59	57	60	57	55	58	56	54	53
3	65	59	54	50	63	58	53	50	56	52	49	54	51	48	52	50	47	46
4	60	53	48	44	58	52	47	43	50	46	43	49	45	42	47	44	42	40
5	55	48	42	38	54	47	42	38	46	41	38	44	40	37	43	40	37	36
6	51	43	38	34	50	43	38	34	42	37	34	40	36	33	39	36	33	32
7	48	39	34	30	47	39	34	30	38	33	30	37	33	30	36	32	30	28
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	30	27	25
9	42	33	28	25	41	33	28	25	32	28	24	31	27	24	31	27	24	23
10	39	31	26	22	38	30	26	22	30	25	22	29	25	22	29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5506	5506	5506
5°	5484	5546	5562
10°	5454	5601	5719
15°	5402	5692	5972
20°	5339	5821	6249
25°	5283	5930	6487
30°	5216	6010	6483
35°	5137	5969	5912
40°	5011	5670	5028
45°	4837	4999	4209
50°	4571	4137	3829
55°	4034	3252	3354
60°	3156	2445	2197
65°	2011	1520	1383
70°	826	685	423
75°	441	277	282
80°	328	215	192
85°	246	137	145



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	149.7	4.2	2.8	0°	1567	1567	1567	1567	1567	
10°-20°	442.7	12.3	8.4	5°	1554	1562	1572	1576	1576	148
20°-30°	700.5	19.4	13.2	15°	1484	1508	1564	1623	1641	418
30°-40°	829.2	23.0	15.6	25°	1362	1412	1529	1631	1673	627
40°-50°	737.9	20.5	13.9	35°	1197	1274	1391	1390	1378	747
50°-60°	513.1	14.2	9.7	45°	973	1045	1006	856	847	748
60°-70°	195.4	5.4	3.7	55°	658	672	531	519	547	582
70°-80°	29.6	0.8	0.6	65°	242	216	183	161	166	243
80°-90°	5.1	0.1	0.1	75°	32	28	20	19	21	40
90°-100°	0.0	0.0	0.0	85°	6	5	3	3	4	8
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1292.9	35.9	24.4							
0°-40°	2122.1	58.9	40.0							
0°-60°	3373.0	93.6	63.6							
0°-90°	3603.2	100.0	68.0							
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°	3603.2	100.0	68.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1566.6	1566.6	1566.6	1566.6	1566.6
2.5°	1561.2	1565.8	1568.8	1570.3	1569.7
5°	1554.2	1562.2	1571.8	1576.0	1576.4
7.5°	1543.5	1554.7	1571.8	1583.1	1588.2
10°	1528.2	1541.8	1569.3	1593.2	1602.5
12.5°	1506.6	1526.1	1566.7	1606.6	1620.2
15°	1484.4	1508.3	1564.3	1622.8	1641.2
17.5°	1456.8	1486.9	1559.7	1633.5	1658.4
20°	1427.4	1463.4	1556.2	1638.1	1670.7
22.5°	1395.7	1438.5	1547.1	1639.1	1678.9
25°	1362.2	1411.5	1529.1	1631.0	1672.7
27.5°	1324.4	1381.5	1507.7	1608.7	1646.7
30°	1285.2	1350.5	1480.8	1566.4	1597.3
32.5°	1241.5	1315.7	1443.1	1499.5	1500.6
35°	1197.2	1274.5	1391.1	1389.7	1377.9
37.5°	1146.1	1227.6	1321.9	1262.8	1241.9
40°	1092.2	1174.2	1235.8	1129.5	1095.8
42.5°	1033.5	1113.6	1126.8	988.8	958.3
45°	973.1	1045.4	1005.6	855.9	846.8
47.5°	908.8	967.5	884.5	745.9	769.3
50°	836.0	880.3	756.6	665.0	700.2
52.5°	754.7	783.7	640.1	591.2	636.5
55°	658.3	672.1	530.6	518.9	547.4
57.5°	555.0	552.4	437.8	424.1	423.1
60°	449.0	429.6	347.8	317.2	312.6
62.5°	343.2	316.8	258.7	230.6	227.7
65°	241.8	216.4	182.8	161.3	166.3
67.5°	140.5	131.9	118.1	104.3	85.6
70°	80.4	68.2	66.7	45.8	41.2
72.5°	50.3	42.6	36.1	28.4	30.0
75°	32.5	27.9	20.4	19.3	20.8
77.5°	22.3	19.3	15.8	13.6	13.2
80°	16.2	12.6	10.6	8.0	9.5
82.5°	10.5	7.6	7.0	5.5	4.9
85°	6.1	4.9	3.4	3.0	3.6
87.5°	3.4	2.4	1.9	0.9	1.5
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)