

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: 14312

Luminaire Tested: **2P2GX-2U6T8S34I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14312
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S34I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR & 2" DEEP
12 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: -

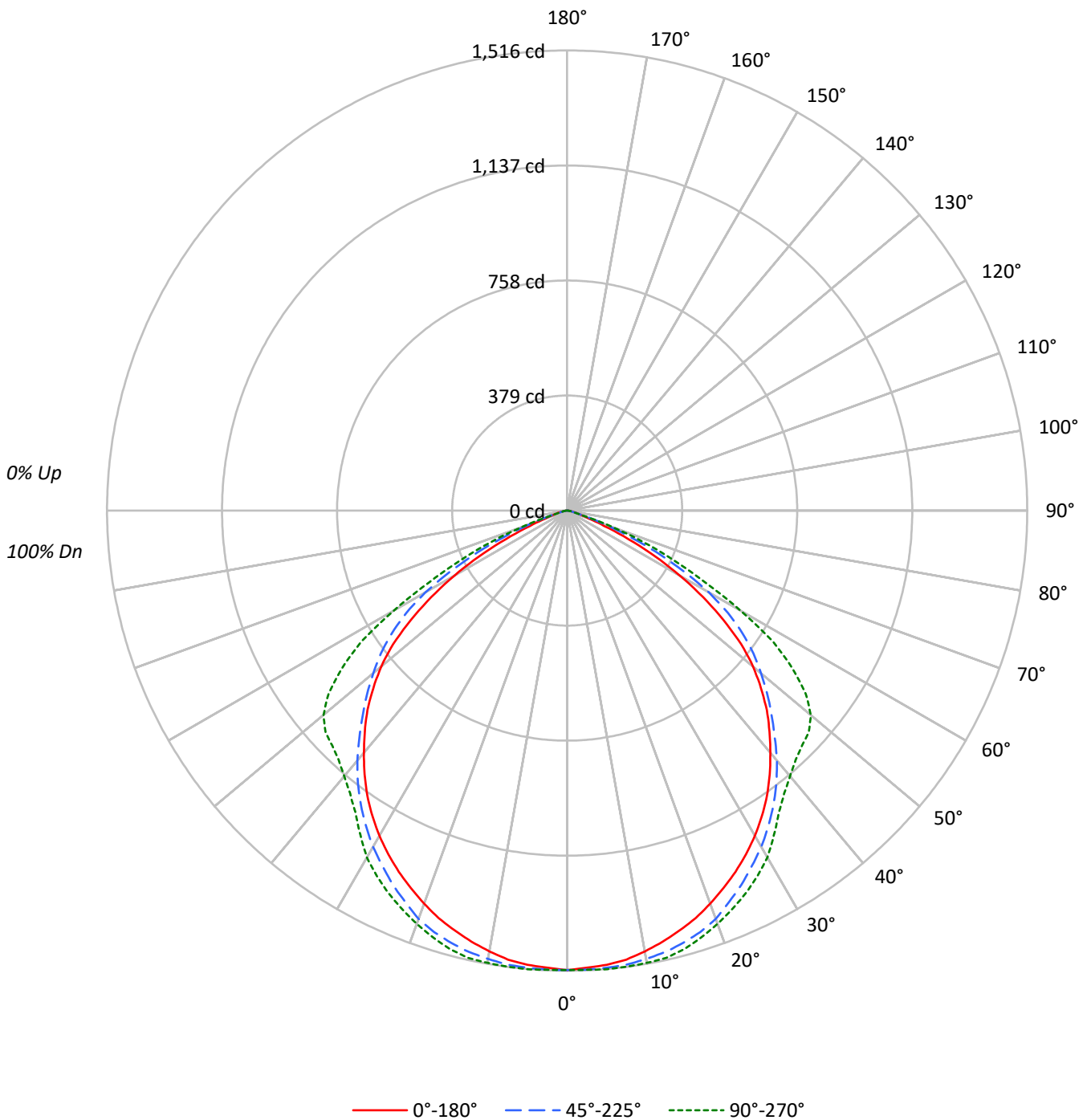
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3691.9 lumens
Efficiency: 69.7%
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.34
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	83	83	83	83	81	81	81	81	77	77	77	74	74	74	71	71	71	70
1	77	74	72	70	75	73	71	69	70	68	66	67	66	64	65	64	63	61
2	71	66	62	59	69	65	61	58	62	59	57	60	58	55	58	56	54	53
3	65	59	54	50	64	58	53	49	56	52	48	54	50	48	52	49	47	45
4	60	52	47	43	59	52	46	42	50	45	42	48	44	41	47	43	41	39
5	55	47	41	37	54	46	41	37	45	40	36	44	39	36	42	39	36	34
6	51	42	37	32	50	42	36	32	41	36	32	39	35	32	38	35	32	30
7	48	39	33	29	46	38	33	29	37	32	28	36	32	28	35	31	28	27
8	44	35	30	26	43	35	29	26	34	29	26	33	29	25	32	28	25	24
9	41	32	27	23	40	32	27	23	31	26	23	30	26	23	30	26	23	22
10	39	30	25	21	38	30	24	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5321	5321	5321
5°	5299	5334	5351
10°	5263	5353	5400
15°	5210	5366	5440
20°	5154	5354	5419
25°	5091	5272	5397
30°	5022	5191	5355
35°	4925	5084	5216
40°	4780	4934	5240
45°	4625	4735	5441
50°	4373	4560	5730
55°	3853	4325	5551
60°	3021	3786	4649
65°	1859	2689	3244
70°	779	1324	1674
75°	456	379	325
80°	308	247	215
85°	246	181	161



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	143.9	3.9	2.7	0°	1514	1514	1514	1514	1514	
10°-20°	414.5	11.2	7.8	5°	1502	1509	1512	1516	1516	143
20°-30°	625.0	16.9	11.8	15°	1432	1448	1475	1496	1495	404
30°-40°	740.9	20.1	14.0	25°	1313	1336	1360	1379	1392	605
40°-50°	758.7	20.5	14.3	35°	1148	1174	1185	1197	1216	716
50°-60°	647.7	17.5	12.2	45°	930	945	953	1020	1095	715
60°-70°	310.3	8.4	5.9	55°	629	645	706	824	906	557
70°-80°	45.1	1.2	0.9	65°	224	246	323	360	390	230
80°-90°	5.7	0.2	0.1	75°	34	32	28	24	24	40
90°-100°	0.0	0.0	0.0	85°	6	6	4	3	4	7
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°	1183.4	32.1	22.3							
0°-40°	1924.3	52.1	36.3							
0°-60°	3330.7	90.2	62.8							
0°-90°	3691.9	100.0	69.7							
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°	3691.9	100.0	69.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1513.8	1513.8	1513.8	1513.8	1513.8
2.5°	1507.2	1512.3	1513.8	1515.4	1514.3
5°	1502.0	1508.7	1511.8	1516.5	1516.5
7.5°	1492.0	1500.5	1508.8	1513.8	1515.4
10°	1474.6	1486.3	1499.7	1512.3	1512.9
12.5°	1454.8	1468.0	1489.9	1507.2	1509.3
15°	1431.8	1447.7	1474.6	1495.5	1495.1
17.5°	1407.9	1423.8	1456.3	1472.1	1473.7
20°	1377.9	1397.2	1431.3	1444.6	1448.8
22.5°	1345.8	1367.7	1395.1	1413.6	1421.1
25°	1312.7	1335.6	1359.5	1379.4	1391.6
27.5°	1276.0	1300.4	1319.2	1343.3	1357.6
30°	1237.3	1263.3	1279.0	1302.5	1319.4
32.5°	1194.0	1220.0	1233.3	1255.7	1267.9
35°	1147.7	1173.7	1184.9	1197.2	1215.5
37.5°	1096.2	1119.7	1132.0	1143.1	1174.8
40°	1041.7	1065.2	1075.4	1096.8	1142.1
42.5°	986.8	1007.7	1012.3	1057.0	1114.2
45°	930.4	945.1	952.6	1019.9	1094.7
47.5°	866.6	881.3	893.7	986.3	1080.1
50°	799.8	809.7	834.0	953.7	1047.9
52.5°	723.1	734.2	774.0	899.2	990.9
55°	628.7	644.7	705.7	823.8	905.8
57.5°	531.0	543.4	628.9	728.7	804.0
60°	429.8	439.5	538.6	615.5	661.4
62.5°	327.9	339.7	431.3	480.1	511.7
65°	223.5	246.4	323.3	360.4	390.0
67.5°	131.9	156.2	218.5	251.0	273.9
70°	75.8	80.3	128.8	148.1	162.9
72.5°	48.7	49.4	63.6	70.7	61.5
75°	33.6	32.5	27.9	24.3	23.9
77.5°	22.9	20.8	17.7	15.7	15.2
80°	15.2	14.1	12.2	10.1	10.6
82.5°	9.7	9.0	7.0	6.1	7.6
85°	6.1	5.5	4.5	3.0	4.0
87.5°	2.9	3.4	2.4	1.3	1.5
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)