

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: 14311

Luminaire Tested: **2P2GX-2U6T8S33I**

Issue Date: 3/3/2020



**Test Information**

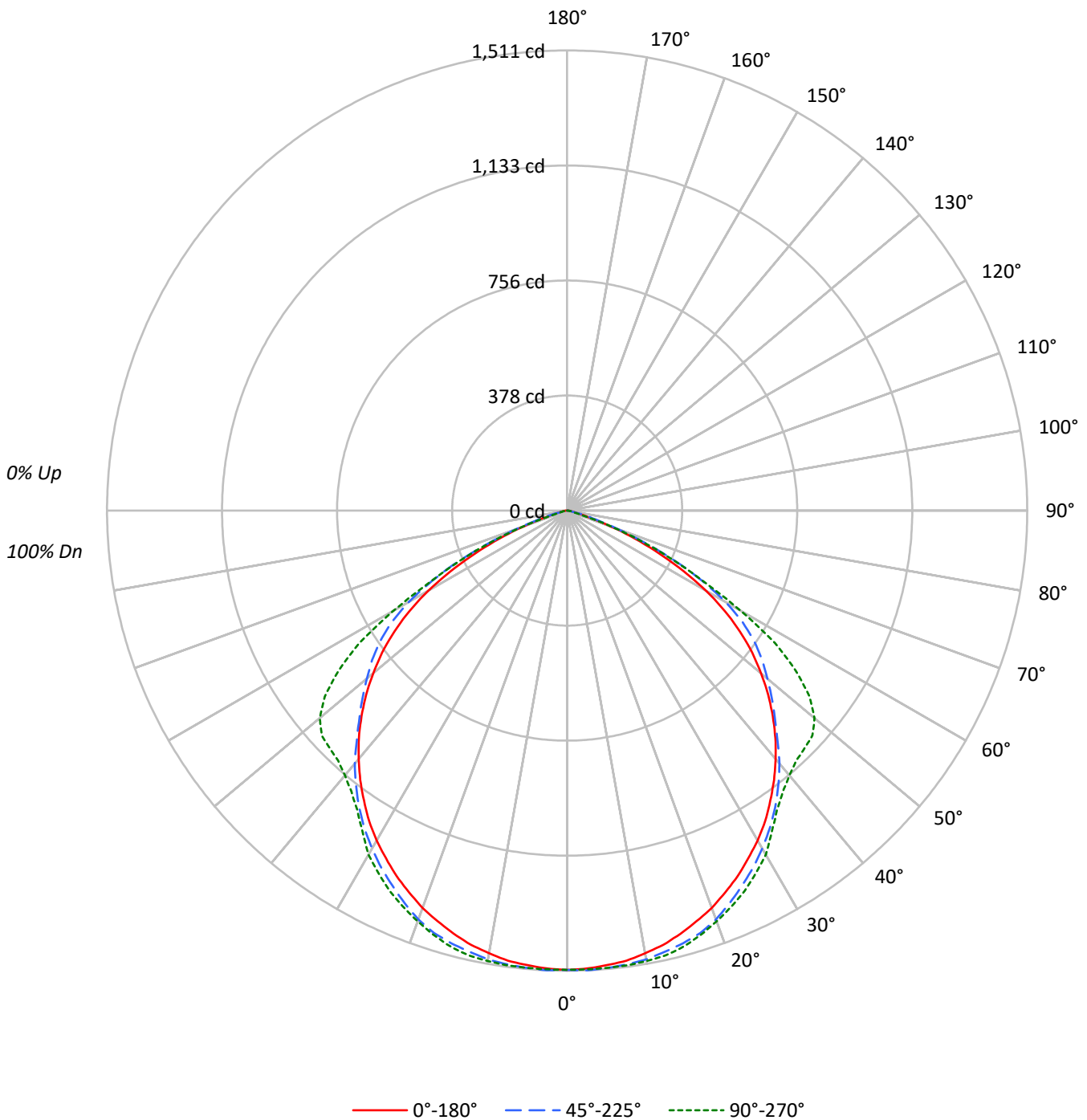
Test Method: LM-41-14  
Report Number: 14311  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P2GX-2U6T8S33I  
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR AND 2" DEEP  
9 CELL SEMI-SPECULAR 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: 3812.9 lumens  
Efficiency: 71.9%  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.35  
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<sub>in</sub>): 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	86	86	86	86	84	84	84	84	80	80	80	77	77	77	73	73	73	72
1	80	77	74	72	78	75	73	71	72	70	68	69	68	66	67	65	64	63
2	73	68	64	60	71	67	63	59	64	61	58	62	59	57	60	57	55	54
3	67	60	55	51	65	59	54	50	57	53	49	55	51	48	53	50	48	46
4	62	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41	40
5	57	48	42	37	55	47	42	37	46	41	37	44	40	36	43	39	36	35
6	52	43	37	33	51	43	37	33	41	36	32	40	36	32	39	35	32	30
7	49	39	33	29	47	39	33	29	38	32	29	37	32	29	36	31	28	27
8	45	36	30	26	44	35	30	26	34	29	26	34	29	26	33	29	25	24
9	42	33	27	23	41	32	27	23	32	27	23	31	26	23	30	26	23	22
10	40	30	25	21	39	30	25	21	29	24	21	29	24	21	28	24	21	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5301	5301	5301
5°	5287	5320	5318
10°	5267	5341	5359
15°	5234	5351	5392
20°	5194	5342	5369
25°	5138	5269	5345
30°	5076	5199	5294
35°	4991	5108	5154
40°	4885	4976	5208
45°	4746	4793	5482
50°	4546	4692	5797
55°	4246	4599	5616
60°	3707	4224	4629
65°	2783	3264	3196
70°	1586	1799	1642
75°	539	642	337
80°	348	255	204
85°	323	181	161



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	143.4	3.8	2.7	0°	1508	1508	1508	1508	1508	
10°-20°	413.5	10.8	7.8	5°	1498	1505	1508	1510	1507	142
20°-30°	624.8	16.4	11.8	15°	1438	1450	1471	1485	1482	406
30°-40°	743.3	19.5	14.0	25°	1325	1343	1359	1370	1378	610
40°-50°	772.0	20.2	14.6	35°	1163	1184	1190	1190	1201	727
50°-60°	685.5	18.0	12.9	45°	955	965	964	1037	1103	735
60°-70°	364.3	9.6	6.9	55°	693	696	750	860	916	615
70°-80°	59.8	1.6	1.1	65°	335	339	392	377	384	332
80°-90°	6.3	0.2	0.1	75°	40	41	47	26	25	61
90°-100°	0.0	0.0	0.0	85°	8	6	4	4	4	9
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°	1181.7	31.0	22.3							
0°-40°	1925.0	50.5	36.3							
0°-60°	3382.5	88.7	63.8							
0°-90°	3812.9	100.0	71.9							
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°	3812.9	100.0	71.9							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1508.2	1508.2	1508.2	1508.2	1508.2
2.5°	1505.2	1508.3	1511.2	1509.7	1507.7
5°	1498.5	1504.7	1507.7	1509.8	1507.2
7.5°	1490.9	1497.0	1503.1	1507.3	1506.2
10°	1475.7	1484.8	1496.5	1503.1	1501.6
12.5°	1460.3	1469.5	1483.7	1497.4	1496.0
15°	1438.5	1449.8	1470.6	1484.8	1481.7
17.5°	1414.0	1428.2	1454.3	1461.4	1460.5
20°	1388.6	1403.3	1428.3	1433.9	1435.4
22.5°	1356.6	1375.2	1395.3	1403.3	1407.9
25°	1324.9	1343.3	1358.6	1370.2	1378.3
27.5°	1287.8	1309.6	1321.9	1334.6	1342.3
30°	1250.7	1272.9	1281.1	1294.9	1304.5
32.5°	1209.9	1230.7	1237.9	1248.6	1250.1
35°	1163.1	1184.0	1190.5	1190.5	1201.2
37.5°	1115.7	1133.5	1139.1	1141.0	1163.5
40°	1064.7	1079.0	1084.6	1099.8	1135.0
42.5°	1012.3	1023.0	1022.0	1067.2	1113.5
45°	954.7	965.4	964.3	1037.2	1102.9
47.5°	895.6	903.3	911.9	1013.2	1092.8
50°	831.4	838.6	858.0	983.8	1060.2
52.5°	766.2	768.8	807.1	932.7	1003.1
55°	692.9	696.1	750.5	859.5	916.5
57.5°	614.1	616.1	683.8	762.2	808.6
60°	527.4	526.4	600.9	643.2	658.5
62.5°	431.3	433.8	500.5	500.4	506.1
65°	334.6	338.6	392.5	377.4	384.3
67.5°	240.9	241.4	276.9	267.3	270.3
70°	154.3	151.2	175.1	160.9	159.8
72.5°	78.9	90.2	99.2	77.4	61.1
75°	39.7	40.7	47.3	25.9	24.8
77.5°	26.4	23.9	20.4	15.8	17.7
80°	17.2	15.7	12.6	10.6	10.1
82.5°	11.2	10.1	9.1	7.0	7.6
85°	8.0	6.5	4.5	3.6	4.0
87.5°	4.0	3.0	2.4	0.9	1.9
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)