

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: 14319

Luminaire Tested: **2PGX-2U6T8S44I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14319
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S44I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR & 4" 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

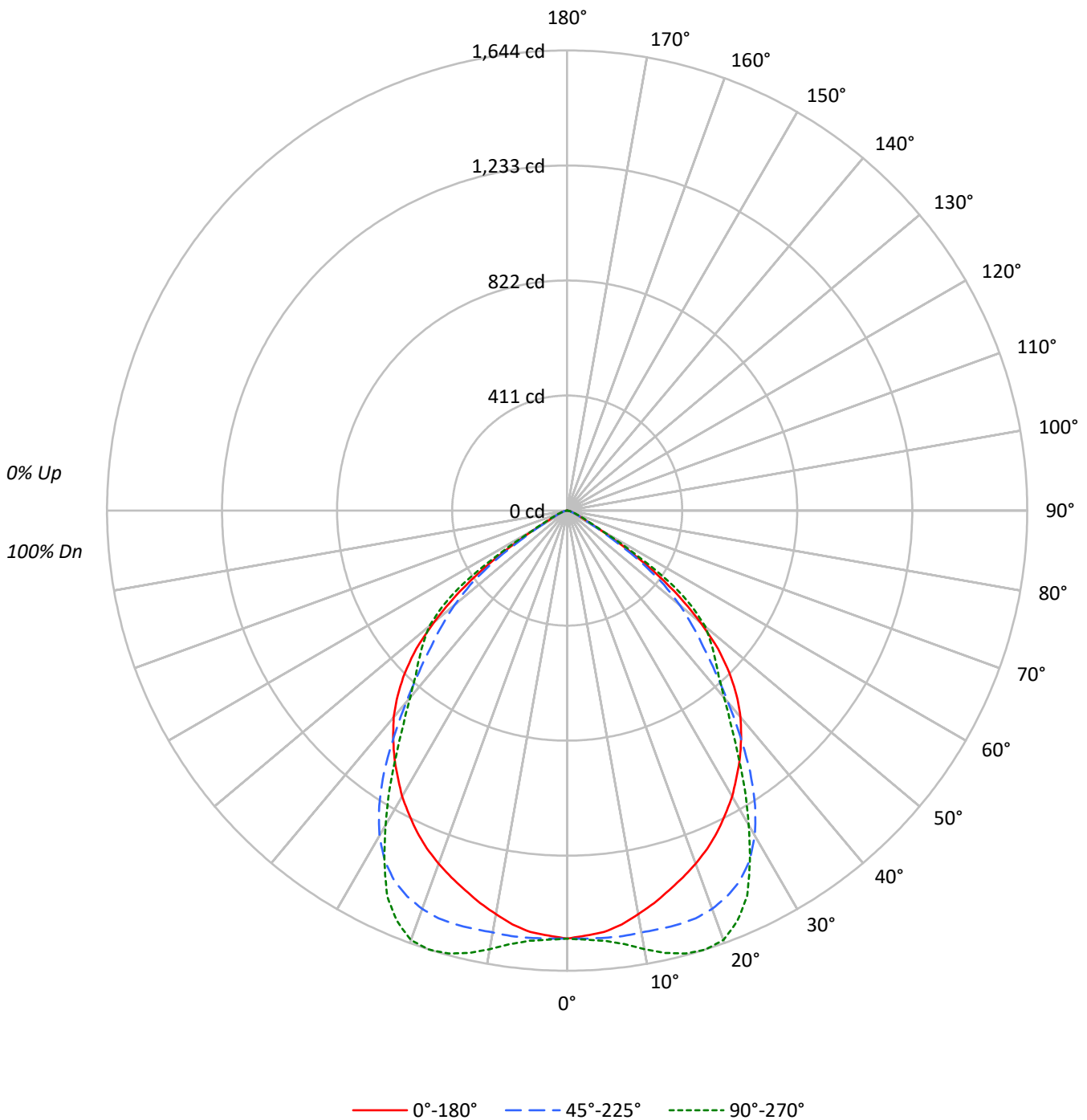
Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 2889.0 lumens
Efficiency: 54.5%
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.22 / 1.21
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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



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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	65	65	65	65	63	63	63	63	61	61	61	58	58	58	56	56	56	55
1	61	59	57	56	60	58	56	55	56	54	53	54	53	52	52	51	50	49
2	57	54	51	48	56	53	50	48	51	49	47	49	47	46	48	46	45	44
3	53	49	45	42	52	48	45	42	46	43	41	45	42	41	43	42	40	39
4	49	44	40	37	48	43	40	37	42	39	37	41	38	36	40	38	36	35
5	46	40	36	33	45	40	36	33	38	35	33	37	35	32	37	34	32	31
6	43	37	33	30	42	36	32	29	35	32	29	34	31	29	34	31	29	28
7	40	34	30	27	39	33	29	27	32	29	26	32	29	26	31	28	26	25
8	37	31	27	24	37	31	27	24	30	26	24	29	26	24	29	26	24	23
9	35	29	25	22	34	28	25	22	28	24	22	27	24	22	27	24	22	21
10	33	27	23	20	32	26	23	20	26	22	20	25	22	20	25	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5436	5436	5436
5°	5394	5468	5507
10°	5285	5524	5743
15°	5171	5636	6030
20°	5079	5730	6177
25°	4974	5727	5965
30°	4839	5506	5324
35°	4672	4948	4614
40°	4474	4154	4046
45°	4125	3459	3758
50°	3435	2906	3560
55°	2323	2017	2784
60°	926	786	1039
65°	420	398	496
70°	280	254	312
75°	207	196	223
80°	176	156	125
85°	163	61	98



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	146.0	5.1	2.8	0°	1529	1529	1529	1529	1529	
10°-20°	431.1	14.9	8.1	5°	1511	1519	1532	1541	1543	143
20°-30°	650.6	22.5	12.3	15°	1405	1442	1531	1612	1638	396
30°-40°	690.7	23.9	13.0	25°	1268	1347	1460	1496	1520	583
40°-50°	578.8	20.0	10.9	35°	1076	1174	1140	1050	1063	672
50°-60°	314.1	10.9	5.9	45°	820	844	688	696	747	624
60°-70°	58.9	2.0	1.1	55°	375	316	325	381	449	331
70°-80°	15.7	0.5	0.3	65°	50	48	47	54	59	58
80°-90°	3.1	0.1	0.1	75°	15	15	14	14	16	17
90°-100°	0.0	0.0	0.0	85°	4	3	2	2	2	4
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°	1227.6	42.5	23.2							
0°-40°	1918.3	66.4	36.2							
0°-60°	2811.2	97.3	53.0							
0°-90°	2889.0	100.0	54.5							
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°	2889.0	100.0	54.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1528.9	1528.9	1528.9	1528.9	1528.9
2.5°	1520.0	1526.1	1530.7	1533.2	1534.3
5°	1511.3	1519.0	1532.2	1540.8	1542.9
7.5°	1491.9	1505.1	1533.2	1553.0	1561.7
10°	1463.9	1485.3	1530.2	1572.9	1590.7
12.5°	1436.4	1463.0	1531.1	1597.4	1618.8
15°	1404.9	1441.6	1531.2	1612.5	1638.1
17.5°	1374.3	1421.1	1527.0	1613.7	1644.2
20°	1342.3	1398.2	1514.4	1598.9	1632.6
22.5°	1307.5	1374.8	1492.0	1561.7	1587.7
25°	1267.9	1347.3	1459.8	1495.5	1520.5
27.5°	1223.6	1312.7	1410.4	1401.8	1414.0
30°	1178.8	1274.5	1341.2	1291.8	1296.8
32.5°	1127.2	1227.7	1250.0	1170.1	1180.9
35°	1076.4	1174.2	1140.0	1050.5	1063.1
37.5°	1020.9	1109.6	1014.9	937.9	959.9
40°	963.9	1033.7	895.1	842.7	871.7
42.5°	896.2	945.0	783.7	761.2	801.5
45°	820.3	843.8	687.9	696.0	747.4
47.5°	731.2	723.9	604.8	635.9	695.6
50°	621.1	585.5	525.4	574.4	643.6
52.5°	505.5	444.0	436.3	492.9	561.0
55°	374.7	315.7	325.4	381.4	449.1
57.5°	237.8	202.1	199.0	254.5	283.1
60°	130.2	118.7	110.5	146.1	146.1
62.5°	73.3	70.3	69.2	82.9	87.9
65°	49.9	48.3	47.3	53.9	59.0
67.5°	36.1	33.6	33.6	38.0	41.1
70°	26.9	23.4	24.4	26.4	30.0
72.5°	20.8	17.7	17.3	18.7	20.2
75°	15.1	14.7	14.3	14.3	16.2
77.5°	12.0	10.5	9.5	9.5	9.5
80°	8.6	6.5	7.6	7.0	6.1
82.5°	5.9	4.9	5.1	3.0	3.6
85°	4.0	3.0	1.5	1.9	2.4
87.5°	2.0	0.9	0.5	0.9	0.9
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)