

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: 14317

Luminaire Tested: **2PGX-2U6T8S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14317
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S33I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR AND 4" 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

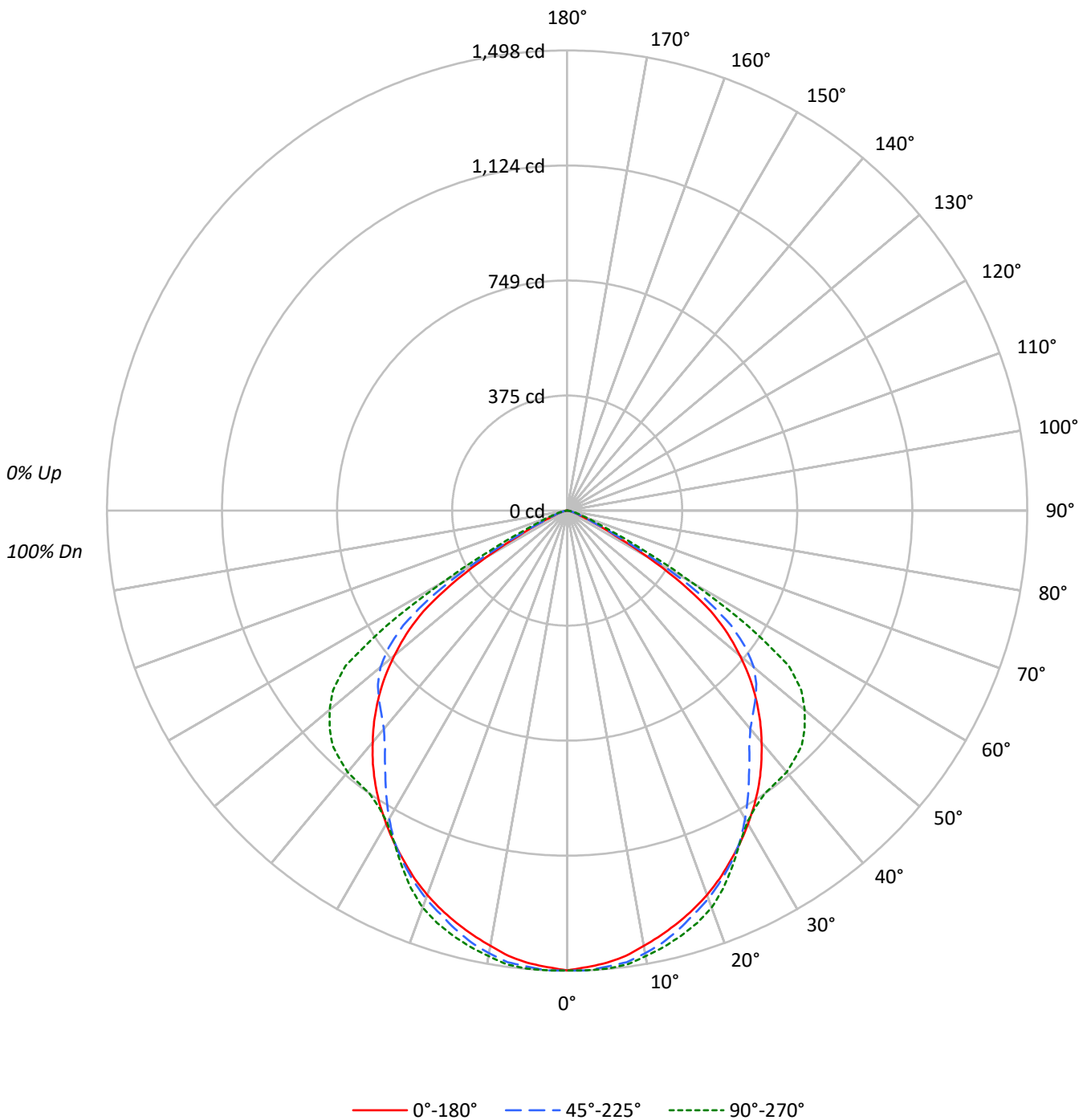
Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3253.9 lumens
Efficiency: 61.4%
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.17 / 1.28
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

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	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61
1	68	66	64	62	67	65	63	61	62	61	59	60	58	57	58	57	56	54
2	63	59	56	53	62	58	55	52	56	53	51	54	52	50	52	50	49	47
3	58	53	48	45	57	52	48	45	50	47	44	48	46	43	47	45	42	41
4	54	47	43	39	52	47	42	39	45	41	38	44	40	38	42	40	37	36
5	50	43	38	34	48	42	37	34	41	37	33	40	36	33	38	35	33	32
6	46	39	34	30	45	38	33	30	37	33	30	36	32	29	35	32	29	28
7	43	35	30	27	42	35	30	27	34	29	26	33	29	26	32	29	26	25
8	40	32	27	24	39	32	27	24	31	27	24	30	26	24	30	26	23	22
9	37	30	25	22	36	29	25	22	29	24	21	28	24	21	27	24	21	20
10	35	27	23	20	34	27	23	20	26	22	20	26	22	19	25	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5322	5322	5322
5°	5275	5319	5341
10°	5195	5283	5318
15°	5117	5190	5274
20°	5038	5086	5204
25°	4934	4960	5000
30°	4835	4756	4808
35°	4725	4482	4873
40°	4570	4306	5159
45°	4375	4358	5433
50°	4061	4388	5582
55°	3541	4033	5457
60°	2157	2657	3324
65°	831	903	1346
70°	391	461	673
75°	271	291	419
80°	176	217	258
85°	208	82	37



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	141.3	4.3	2.7	0°	1497	1497	1497	1497	1497	
10°-20°	397.8	12.2	7.5	5°	1478	1485	1490	1494	1497	140
20°-30°	581.1	17.9	11.0	15°	1390	1399	1410	1426	1433	392
30°-40°	671.4	20.6	12.7	25°	1258	1262	1264	1263	1275	580
40°-50°	705.0	21.7	13.3	35°	1089	1072	1033	1066	1123	680
50°-60°	572.0	17.6	10.8	45°	870	835	867	992	1080	668
60°-70°	154.7	4.8	2.9	55°	571	554	651	756	880	489
70°-80°	26.2	0.8	0.5	65°	99	108	107	150	160	124
80°-90°	4.3	0.1	0.1	75°	20	20	21	25	30	22
90°-100°	0.0	0.0	0.0	85°	5	4	2	3	1	5
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°	1120.3	34.4	21.1							
0°-40°	1791.7	55.1	33.8							
0°-60°	3068.7	94.3	57.9							
0°-90°	3253.9	100.0	61.4							
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°	3253.9	100.0	61.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.8	1496.8	1496.8	1496.8	1496.8
2.5°	1487.3	1492.0	1498.5	1498.0	1498.1
5°	1478.1	1485.3	1490.3	1494.0	1496.6
7.5°	1462.4	1470.0	1482.7	1485.8	1490.5
10°	1438.9	1449.2	1463.4	1470.6	1473.1
12.5°	1415.6	1425.7	1440.0	1449.2	1454.8
15°	1390.1	1399.3	1409.9	1426.3	1432.9
17.5°	1362.0	1371.3	1376.4	1397.2	1407.5
20°	1331.6	1338.1	1344.2	1362.6	1375.4
22.5°	1297.0	1302.0	1305.6	1318.8	1329.5
25°	1257.8	1262.4	1264.3	1263.3	1274.6
27.5°	1219.5	1217.5	1216.9	1203.3	1218.4
30°	1177.7	1173.1	1158.5	1144.6	1171.2
32.5°	1134.9	1123.3	1096.2	1097.9	1142.7
35°	1088.7	1071.9	1032.7	1066.2	1122.8
37.5°	1038.7	1016.9	973.6	1044.2	1116.7
40°	984.7	959.3	927.7	1032.7	1111.5
42.5°	930.2	898.1	895.2	1018.0	1096.4
45°	870.2	834.6	866.7	992.0	1080.5
47.5°	806.1	769.4	835.4	956.2	1048.4
50°	734.2	703.6	793.3	907.3	1009.2
52.5°	659.9	633.4	732.1	844.8	961.4
55°	571.2	553.5	650.7	756.1	880.3
57.5°	448.0	455.1	529.5	614.1	694.5
60°	303.4	322.9	373.6	422.1	467.5
62.5°	177.2	193.5	211.7	257.5	284.1
65°	98.8	108.4	107.3	150.2	160.0
67.5°	57.9	61.7	63.1	88.5	98.2
70°	37.6	38.0	44.3	55.6	64.7
72.5°	28.0	27.5	29.6	37.2	43.7
75°	19.7	20.2	21.2	25.4	30.5
77.5°	14.1	14.1	14.3	17.3	18.7
80°	8.6	9.5	10.6	9.0	12.6
82.5°	7.0	6.6	6.1	6.1	5.5
85°	5.1	3.6	2.0	3.0	0.9
87.5°	2.0	2.4	0.9	0.5	0.9
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)