

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: 14318

Luminaire Tested: **2PGX-2U6T8S34I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14318
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S34I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR & 4" 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

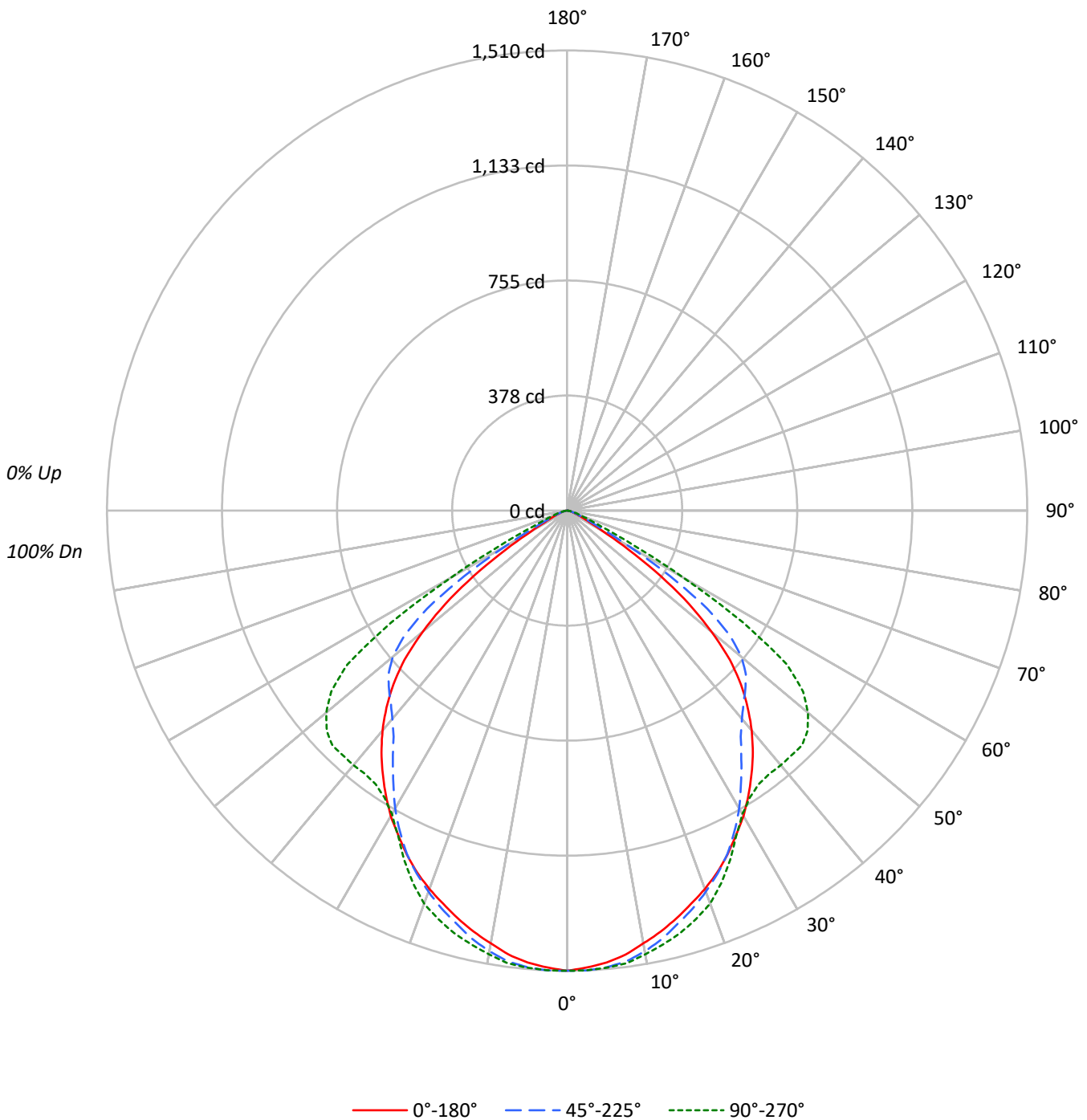
Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3059.5 lumens
Efficiency: 57.7%
Efficacy: 53.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.14 / 1.24
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

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	69	69	69	69	67	67	67	67	64	64	64	61	61	61	59	59	59	58
1	64	62	60	59	63	61	59	58	59	57	56	56	55	54	54	53	53	52
2	60	56	53	50	58	55	52	49	53	50	48	51	49	47	49	48	46	45
3	55	50	46	43	54	49	46	43	48	45	42	46	43	41	45	43	41	40
4	51	45	41	37	50	44	40	37	43	40	37	42	39	36	41	38	36	35
5	47	41	36	33	46	40	36	33	39	35	32	38	35	32	37	34	32	31
6	44	37	32	29	43	36	32	29	35	32	29	35	31	29	34	31	28	27
7	41	34	29	26	40	33	29	26	32	29	26	32	28	26	31	28	25	24
8	38	31	26	23	37	31	26	23	30	26	23	29	26	23	28	25	23	22
9	36	28	24	21	35	28	24	21	28	24	21	27	23	21	26	23	21	20
10	33	26	22	19	33	26	22	19	26	22	19	25	22	19	25	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5368	5368	5368
5°	5314	5367	5373
10°	5206	5302	5337
15°	5100	5165	5282
20°	5000	5036	5192
25°	4884	4880	4962
30°	4752	4634	4720
35°	4579	4326	4756
40°	4374	4140	5062
45°	4058	4160	5479
50°	3418	4132	5706
55°	2329	3479	5460
60°	959	1665	3139
65°	458	583	1036
70°	291	343	524
75°	238	243	349
80°	184	164	195
85°	184	118	122



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.1	4.6	2.7	0°	1510	1510	1510	1510	1510	
10°-20°	396.9	13.0	7.5	5°	1489	1496	1504	1507	1506	141
20°-30°	572.9	18.7	10.8	15°	1386	1394	1403	1428	1435	391
30°-40°	650.9	21.3	12.3	25°	1245	1244	1244	1248	1265	573
40°-50°	675.7	22.1	12.7	35°	1055	1036	997	1035	1096	659
50°-60°	492.4	16.1	9.3	45°	807	770	827	981	1090	614
60°-70°	103.9	3.4	2.0	55°	376	408	561	726	881	331
70°-80°	20.9	0.7	0.4	65°	54	60	69	105	123	63
80°-90°	3.8	0.1	0.1	75°	17	16	18	21	25	18
90°-100°	0.0	0.0	0.0	85°	4	3	3	2	3	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°	1111.9	36.3	21.0							
0°-40°	1762.9	57.6	33.3							
0°-60°	2930.9	95.8	55.3							
0°-90°	3059.5	100.0	57.7							
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°	3059.5	100.0	57.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.9	1509.9	1509.9	1509.9	1509.9
2.5°	1500.6	1507.7	1510.2	1510.8	1509.8
5°	1489.0	1496.5	1503.7	1507.2	1505.6
7.5°	1469.6	1479.2	1491.9	1494.0	1498.0
10°	1442.1	1453.2	1468.5	1475.2	1478.3
12.5°	1415.6	1425.1	1439.5	1453.2	1457.8
15°	1385.5	1394.1	1403.3	1428.3	1435.0
17.5°	1352.9	1360.1	1369.7	1395.8	1405.4
20°	1321.4	1325.5	1331.0	1357.0	1372.3
22.5°	1285.7	1286.3	1289.2	1308.1	1322.4
25°	1245.0	1243.5	1243.9	1248.0	1264.9
27.5°	1200.1	1196.2	1188.5	1181.3	1201.6
30°	1157.4	1147.1	1128.8	1119.2	1149.8
32.5°	1107.5	1093.3	1061.2	1070.4	1116.1
35°	1055.1	1036.2	996.6	1035.2	1095.8
37.5°	1001.0	974.6	935.3	1014.8	1089.1
40°	942.5	912.5	892.0	1002.7	1090.7
42.5°	877.3	845.2	856.0	992.9	1089.3
45°	807.1	770.4	827.4	981.1	1089.7
47.5°	724.6	692.0	794.8	954.7	1069.8
50°	618.0	607.4	747.0	906.3	1031.6
52.5°	505.5	514.9	672.1	833.9	976.1
55°	375.8	408.4	561.2	726.0	880.9
57.5°	237.7	285.6	400.7	560.0	684.9
60°	134.9	172.6	234.2	353.3	441.5
62.5°	80.4	96.7	118.5	194.4	241.4
65°	54.4	60.1	69.3	105.3	123.1
67.5°	39.1	40.7	46.8	63.1	75.3
70°	28.0	28.4	33.0	41.2	50.4
72.5°	21.2	21.4	22.9	28.4	34.6
75°	17.3	16.2	17.7	21.2	25.4
77.5°	12.6	12.2	11.1	14.7	16.2
80°	9.0	7.5	8.0	8.6	9.5
82.5°	5.5	5.5	5.5	5.1	4.9
85°	4.5	3.4	2.9	2.0	3.0
87.5°	2.4	1.3	1.5	0.5	0.9
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)