

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: 14316

Luminaire Tested: **2PGX-2U6T8S23I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14316
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-2U6T8S23I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR AND 4" DEEP 6 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

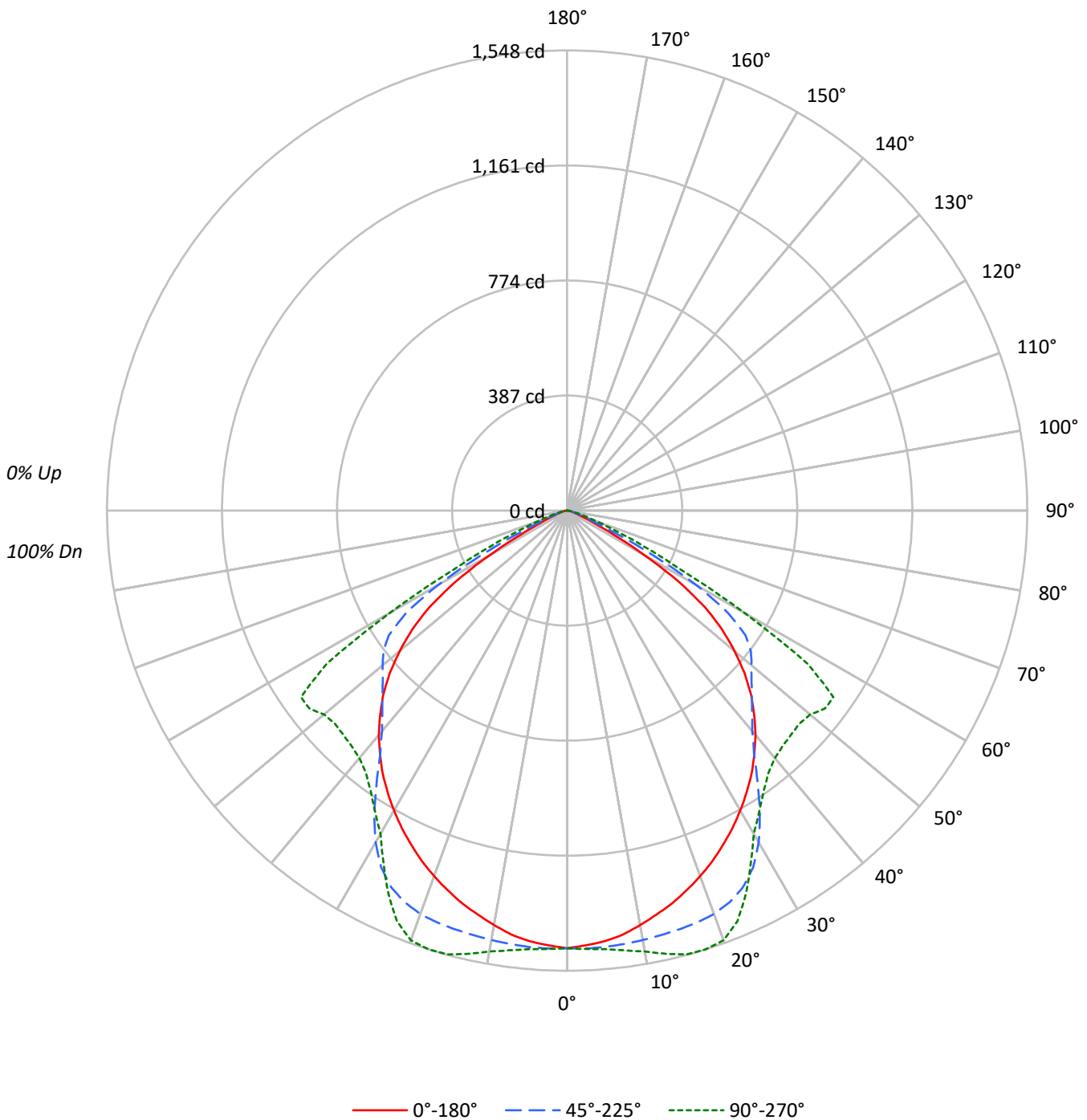
Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3508.0 lumens
Efficiency: 66.2%
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.3
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

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	79	79	79	79	77	77	77	77	74	74	74		70	70	70		68	68	68	66
1	73	71	69	67	72	69	67	66	67	65	63		64	63	62		62	61	60	58
2	68	63	59	56	66	62	59	56	60	57	54		58	55	53		56	54	52	51
3	62	56	52	48	61	55	51	47	53	50	47		52	49	46		50	47	45	44
4	57	50	45	41	56	50	45	41	48	44	40		46	43	40		45	42	39	38
5	53	45	40	36	52	45	40	36	43	39	35		42	38	35		41	37	35	33
6	49	41	36	32	48	40	35	31	39	35	31		38	34	31		37	34	31	29
7	46	37	32	28	45	37	32	28	36	31	28		35	31	28		34	30	27	26
8	43	34	29	25	42	34	29	25	33	28	25		32	28	25		31	27	25	23
9	40	31	26	23	39	31	26	23	30	26	22		29	25	22		29	25	22	21
10	37	29	24	21	36	29	24	21	28	24	20		27	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5235	5235	5235
5°	5190	5260	5285
10°	5112	5296	5438
15°	5032	5368	5691
20°	4952	5464	5820
25°	4868	5488	5583
30°	4781	5291	5153
35°	4694	4847	5001
40°	4576	4497	5046
45°	4397	4416	5359
50°	4067	4481	5903
55°	3494	4542	6777
60°	2162	3585	4884
65°	844	1491	2390
70°	417	554	1043
75°	280	335	559
80°	207	250	362
85°	184	163	163



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.2	4.0	2.6	0°	1472	1472	1472	1472	1472	
10°-20°	411.7	11.7	7.8	5°	1454	1463	1474	1480	1481	138
20°-30°	624.2	17.8	11.8	15°	1367	1394	1458	1522	1546	385
30°-40°	706.0	20.1	13.3	25°	1241	1304	1399	1417	1423	572
40°-50°	721.6	20.6	13.6	35°	1082	1160	1117	1110	1152	675
50°-60°	650.7	18.5	12.3	45°	874	904	878	983	1066	670
60°-70°	215.5	6.1	4.1	55°	564	575	733	928	1093	486
70°-80°	32.8	0.9	0.6	65°	100	129	177	243	284	125
80°-90°	5.3	0.2	0.1	75°	20	22	24	34	41	23
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	4	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°	1176.1	33.5	22.2							
0°-40°	1882.1	53.7	35.5							
0°-60°	3254.4	92.8	61.4							
0°-90°	3508.0	100.0	66.2							
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°	3508.0	100.0	66.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.5	1472.5	1472.5	1472.5	1472.5
2.5°	1463.4	1470.0	1474.6	1475.2	1476.2
5°	1454.2	1463.0	1473.7	1480.2	1480.8
7.5°	1438.5	1450.7	1470.6	1485.3	1491.9
10°	1416.0	1432.8	1467.0	1497.0	1506.2
12.5°	1391.6	1414.0	1462.4	1508.3	1527.0
15°	1367.2	1393.6	1458.4	1522.5	1546.0
17.5°	1338.7	1374.8	1452.8	1522.5	1548.0
20°	1308.7	1353.8	1444.2	1509.8	1538.3
22.5°	1276.5	1330.5	1426.8	1478.7	1495.5
25°	1240.9	1304.1	1398.9	1417.1	1423.2
27.5°	1204.2	1276.0	1354.0	1332.6	1338.1
30°	1164.6	1242.3	1288.8	1243.5	1255.1
32.5°	1123.8	1204.2	1206.8	1170.2	1201.7
35°	1081.6	1159.5	1116.7	1109.6	1152.3
37.5°	1034.1	1107.9	1032.7	1061.1	1112.1
40°	985.9	1046.9	969.0	1025.1	1087.2
42.5°	930.8	978.1	920.1	998.5	1073.4
45°	874.4	903.7	878.3	982.7	1065.8
47.5°	809.0	822.9	840.6	969.0	1060.1
50°	735.3	740.8	810.1	958.3	1067.2
52.5°	656.2	657.8	779.0	954.7	1093.7
55°	563.7	574.8	732.7	927.7	1093.3
57.5°	444.0	475.1	643.6	820.3	958.7
60°	304.0	352.4	504.2	611.1	686.8
62.5°	178.2	225.4	326.4	395.2	430.8
65°	100.3	128.7	177.2	242.8	284.1
67.5°	59.0	70.3	90.6	143.5	171.6
70°	40.1	41.6	53.3	81.4	100.3
72.5°	27.5	30.0	35.5	51.9	63.6
75°	20.4	21.9	24.4	34.0	40.7
77.5°	15.7	15.8	17.3	22.3	26.9
80°	10.1	10.1	12.2	14.3	17.7
82.5°	7.0	6.5	6.5	7.6	9.5
85°	4.5	4.5	4.0	4.0	4.0
87.5°	3.4	1.9	0.9	1.5	0.5
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)