

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: 14314

Luminaire Tested: **2P2GX-2U6T8S66I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14314
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-2U6T8S66I
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE with WHITE INTERIOR & 2" DEEP
36 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: -

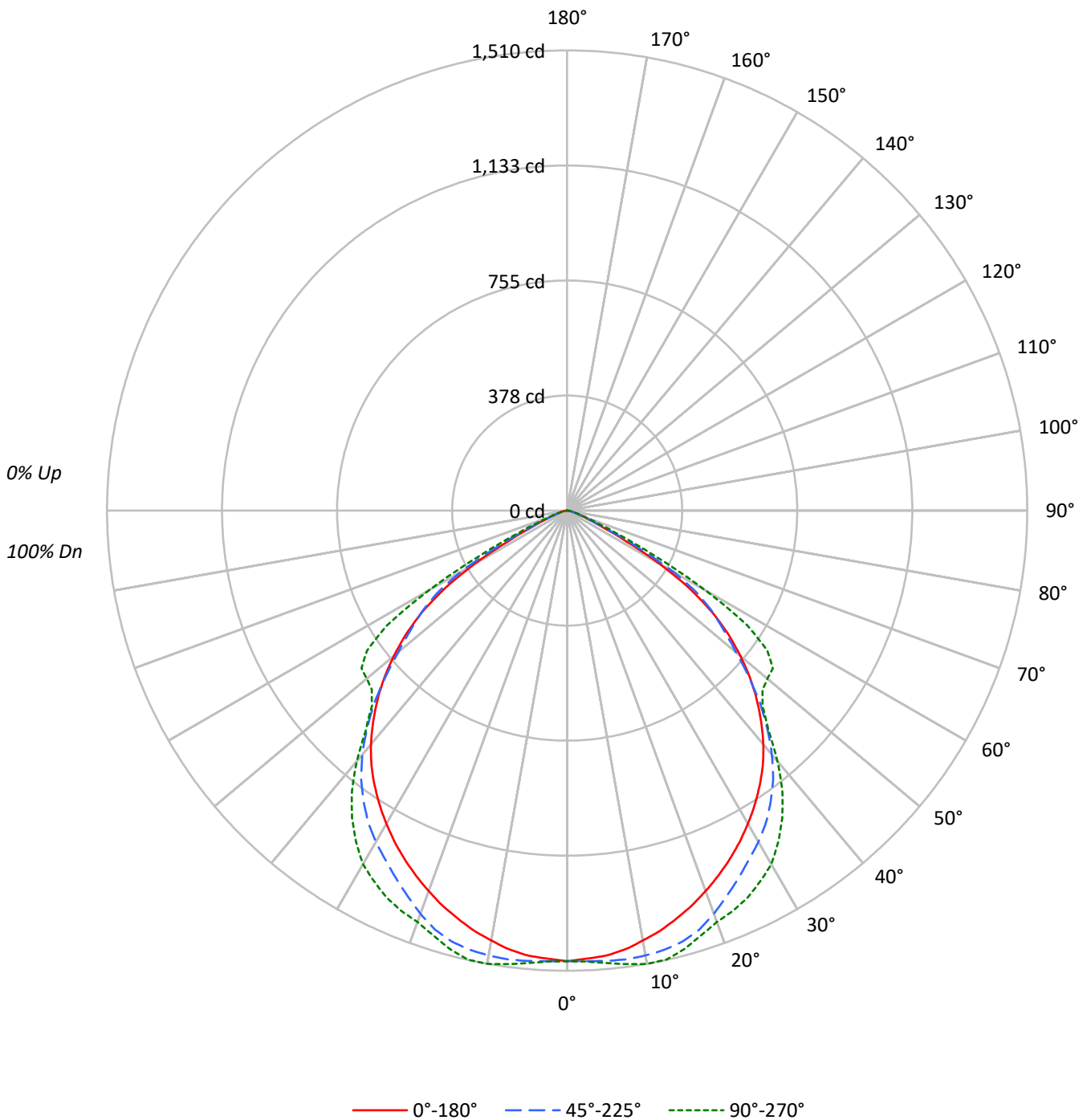
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 3349.1 lumens
Efficiency: 63.2%
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.32 / 1.33
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_{in}): 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	75	75	75	75	73	73	73	73	70	70	70	67	67	67	64	64	64	63
1	70	68	66	64	69	66	65	63	64	62	61	61	60	59	59	58	57	56
2	65	61	57	54	63	60	56	54	57	55	52	55	53	51	54	52	50	49
3	60	54	50	46	59	53	49	46	52	48	45	50	47	44	48	46	44	43
4	55	49	44	40	54	48	43	40	46	42	39	45	42	39	44	41	38	37
5	51	44	39	35	50	43	39	35	42	38	35	41	37	34	40	36	34	33
6	47	40	35	31	46	39	34	31	38	34	31	37	33	30	36	33	30	29
7	44	36	31	28	43	36	31	28	35	30	27	34	30	27	33	30	27	26
8	41	33	28	25	40	33	28	25	32	28	25	31	27	24	31	27	24	23
9	38	31	26	22	38	30	26	22	29	25	22	29	25	22	28	25	22	21
10	36	28	24	20	35	28	23	20	27	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5198	5198	5198
5°	5172	5234	5258
10°	5112	5290	5390
15°	5044	5327	5418
20°	4969	5266	5373
25°	4896	5158	5434
30°	4817	5095	5438
35°	4726	4997	5281
40°	4598	4797	4927
45°	4379	4453	4503
50°	4060	3958	4692
55°	3563	3579	4914
60°	2484	2834	3700
65°	1033	1178	1550
70°	528	500	675
75°	352	296	380
80°	267	215	204
85°	206	121	97



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	141.3	4.2	2.7	0°	1479	1479	1479	1479	1479	
10°-20°	408.7	12.2	7.7	5°	1466	1475	1483	1489	1490	139
20°-30°	616.2	18.4	11.6	15°	1386	1416	1464	1487	1489	391
30°-40°	728.0	21.7	13.7	25°	1262	1313	1330	1377	1401	582
40°-50°	690.9	20.6	13.0	35°	1101	1140	1164	1203	1231	688
50°-60°	550.7	16.4	10.4	45°	881	907	896	872	906	677
60°-70°	180.3	5.4	3.4	55°	582	568	584	699	802	506
70°-80°	28.6	0.9	0.5	65°	124	128	142	181	186	152
80°-90°	4.5	0.1	0.1	75°	26	24	22	25	28	29
90°-100°	0.0	0.0	0.0	85°	5	4	3	2	2	7
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°	1166.2	34.8	22.0							
0°-40°	1894.2	56.6	35.7							
0°-60°	3135.8	93.6	59.2							
0°-90°	3349.1	100.0	63.2							
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°	3349.1	100.0	63.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1478.8	1478.8	1478.8	1478.8	1478.8
2.5°	1471.6	1476.6	1479.8	1482.3	1481.2
5°	1466.0	1474.6	1483.3	1489.4	1490.3
7.5°	1452.8	1465.0	1485.3	1497.6	1501.1
10°	1432.4	1451.3	1482.3	1504.2	1510.2
12.5°	1411.9	1436.0	1476.2	1504.1	1508.7
15°	1386.1	1415.6	1463.9	1486.9	1488.8
17.5°	1359.5	1394.7	1441.6	1458.8	1461.4
20°	1328.5	1371.8	1407.9	1427.4	1436.4
22.5°	1296.4	1345.2	1368.7	1400.3	1421.7
25°	1262.4	1312.7	1330.1	1376.9	1401.2
27.5°	1225.7	1275.4	1291.8	1345.2	1371.8
30°	1186.9	1235.3	1255.3	1309.6	1339.8
32.5°	1145.2	1189.5	1214.4	1261.8	1289.2
35°	1101.4	1140.2	1164.5	1202.7	1230.7
37.5°	1055.1	1086.6	1110.6	1133.4	1159.9
40°	1002.0	1033.7	1045.4	1053.4	1073.9
42.5°	942.5	973.1	973.1	960.8	978.2
45°	880.9	906.9	895.8	872.1	905.8
47.5°	815.1	832.0	809.2	808.2	869.2
50°	742.4	750.1	723.9	771.9	858.0
52.5°	665.4	663.9	650.1	745.4	850.9
55°	581.5	568.2	584.1	699.1	801.9
57.5°	477.2	462.7	508.6	605.9	701.1
60°	353.3	341.1	403.2	461.9	526.4
62.5°	217.4	219.5	262.7	304.5	334.0
65°	124.2	128.3	141.6	180.7	186.4
67.5°	76.8	75.8	77.2	99.8	105.9
70°	51.4	47.9	48.7	58.5	65.7
72.5°	35.0	34.0	32.5	38.6	42.8
75°	25.9	23.9	21.8	24.8	28.0
77.5°	17.7	16.2	15.2	15.8	18.3
80°	13.2	11.1	10.6	9.5	10.1
82.5°	8.6	7.0	5.5	4.9	6.1
85°	5.1	4.0	3.0	1.5	2.4
87.5°	3.4	1.5	2.0	0.5	1.3
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)