

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: 14327

Luminaire Tested: **2GCAPL-2U6T8PB2S**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14327
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAPL-2U6T8PB2S
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR AND 196
CELL FRAMELESS PLASTIC SPECULAR PARABOLIC LOUVER
Light Source: TWO SYLVANIA 31 WATT 6" U-LAMPS

FB31T8/TL741/6. LUMEN RATING = 2650 LMS.

Ballast/Driver: -

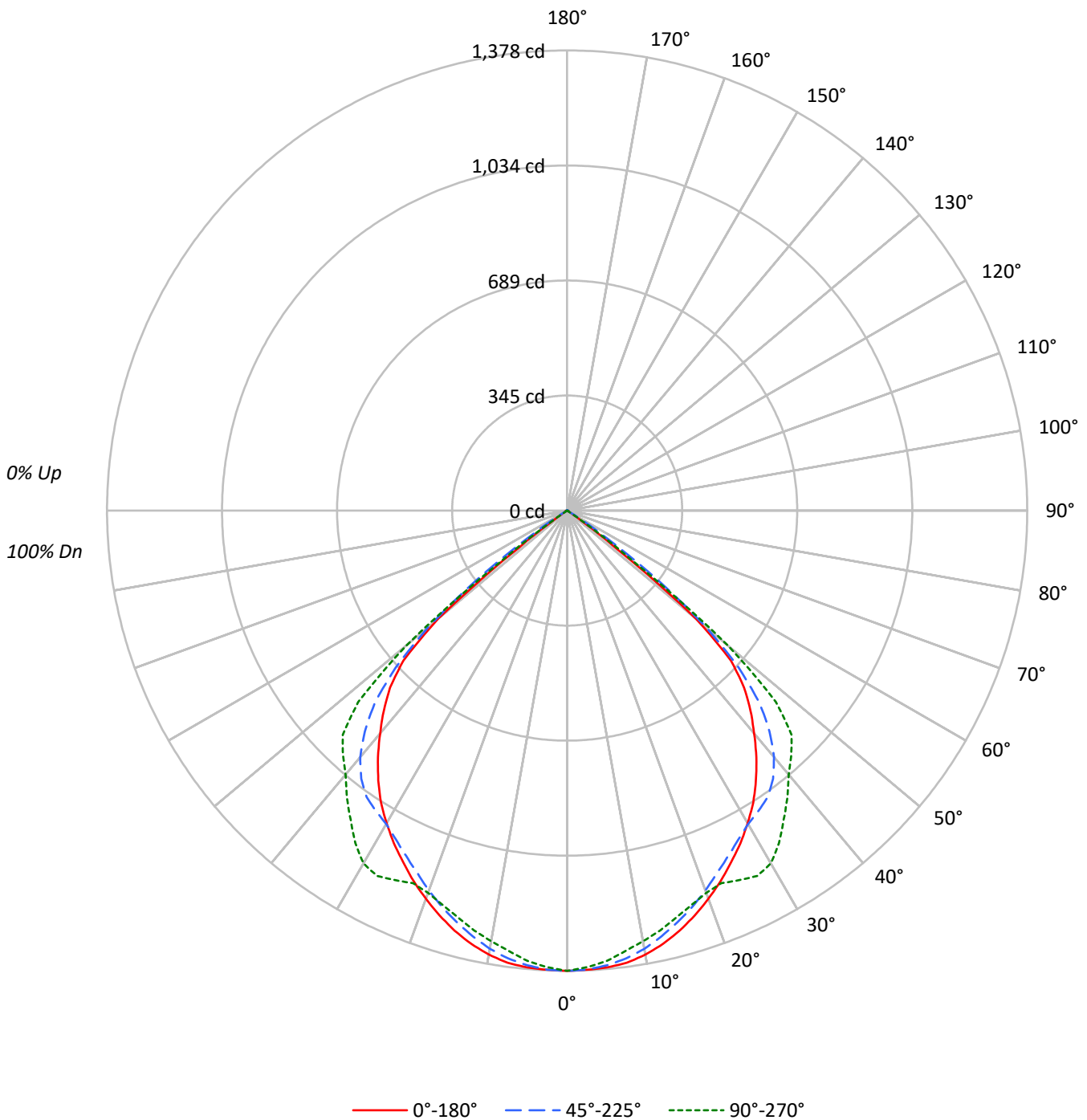
Summary

Lumens per Lamp: 2650 (2 lamps)
Luminaire Lumens: 2452.1 lumens
Efficiency: 46.3%
Efficacy: 47.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.3 / 1.32
Luminous Opening: Rectangular (W 1.71' x L: 1.71' x H: 0')
CIE Type: Direct

Input Watts (W): 52
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	55	55	55	55	54	54	54	54	51	51	51	49	49	49	47	47	47	46
1	52	50	49	48	51	49	48	47	48	47	46	46	45	44	44	44	43	42
2	49	46	44	42	48	45	43	41	44	42	40	42	41	39	41	40	39	38
3	45	42	39	37	44	41	39	36	40	38	36	39	37	35	38	36	35	34
4	42	38	35	33	41	37	35	32	36	34	32	35	33	32	35	33	31	30
5	39	35	31	29	39	34	31	29	33	31	29	33	30	28	32	30	28	27
6	37	32	28	26	36	31	28	26	31	28	26	30	27	25	29	27	25	24
7	34	29	26	23	34	29	26	23	28	25	23	28	25	23	27	25	23	22
8	32	27	23	21	32	27	23	21	26	23	21	25	23	21	25	23	21	20
9	30	25	22	19	30	25	21	19	24	21	19	24	21	19	23	21	19	18
10	28	23	20	18	28	23	20	18	22	20	18	22	19	17	22	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5074	5074	5074
5°	5075	5051	5004
10°	5047	4981	4894
15°	4962	4863	4807
20°	4845	4742	4771
25°	4718	4636	4960
30°	4595	4606	5186
35°	4430	4707	5080
40°	4187	4632	4960
45°	3903	4239	4947
50°	2882	3100	3616
55°	219	941	278
60°	27	53	18
65°	31	26	10
70°	39	17	12
75°	51	28	7
80°	64	64	11
85°	84	84	21



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	129.3	5.3	2.4	0°	1378	1378	1378	1378	1378	
10°-20°	360.8	14.7	6.8	5°	1373	1374	1367	1359	1354	130
20°-30°	539.2	22.0	10.2	15°	1302	1290	1276	1272	1261	367
30°-40°	653.2	26.6	12.3	25°	1162	1136	1141	1191	1221	535
40°-50°	614.2	25.0	11.6	35°	986	964	1047	1125	1130	615
50°-60°	148.6	6.1	2.8	45°	750	759	814	882	950	561
60°-70°	2.7	0.1	0.1	55°	34	72	147	109	43	102
70°-80°	2.3	0.1	0.0	65°	4	3	3	4	1	3
80°-90°	1.8	0.1	0.0	75°	4	4	2	2	0	4
90°-100°	0.0	0.0	0.0	85°	2	4	2	2	0	2
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°	1029.3	42.0	19.4							
0°-40°	1682.5	68.6	31.7							
0°-60°	2445.2	99.7	46.1							
0°-90°	2452.1	100.0	46.3							
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°	2452.1	100.0	46.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.3	1378.3	1378.3	1378.3	1378.3
2.5°	1376.5	1379.0	1375.9	1373.4	1368.8
5°	1373.4	1373.9	1366.8	1359.3	1354.1
7.5°	1365.8	1362.7	1353.0	1339.8	1330.6
10°	1350.1	1346.5	1332.6	1316.9	1309.2
12.5°	1329.1	1322.0	1305.7	1297.0	1287.4
15°	1302.1	1290.3	1276.1	1271.5	1261.4
17.5°	1271.1	1254.7	1245.0	1246.5	1238.4
20°	1236.9	1218.0	1210.4	1224.1	1218.0
22.5°	1201.2	1177.8	1173.8	1200.4	1207.3
25°	1161.6	1136.1	1141.3	1190.6	1221.1
27.5°	1123.3	1094.4	1110.0	1200.2	1233.3
30°	1081.1	1056.6	1083.7	1196.7	1220.1
32.5°	1037.3	1010.9	1066.3	1169.2	1180.9
35°	985.9	963.5	1047.4	1124.9	1130.4
37.5°	930.9	915.5	1012.8	1064.8	1083.2
40°	871.3	869.8	963.9	1012.0	1032.1
42.5°	812.8	818.3	897.2	948.7	993.5
45°	749.7	759.3	814.3	882.0	950.3
47.5°	665.0	666.1	696.1	782.2	848.4
50°	503.2	502.1	541.4	583.0	631.5
52.5°	179.3	279.5	341.6	355.4	258.7
55°	34.1	71.8	146.6	109.1	43.3
57.5°	6.1	11.8	38.2	12.2	4.5
60°	3.6	3.6	7.2	4.1	2.4
62.5°	3.0	3.0	2.0	2.4	2.0
65°	3.6	3.0	3.0	3.6	1.1
67.5°	3.6	3.1	2.4	2.0	1.6
70°	3.6	1.1	1.6	1.5	1.1
72.5°	3.6	2.0	1.6	1.1	0.5
75°	3.6	4.1	2.0	2.0	0.5
77.5°	4.1	3.6	2.6	2.0	0.5
80°	3.0	3.0	3.0	1.1	0.5
82.5°	2.4	3.0	1.5	1.1	0.5
85°	2.0	4.1	2.0	1.6	0.5
87.5°	1.5	2.0	1.1	0.5	0.5
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)