

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: 14328

Luminaire Tested: **2GCAML-2U6T8S66I**

Issue Date: 3/3/2020



**Test Information**

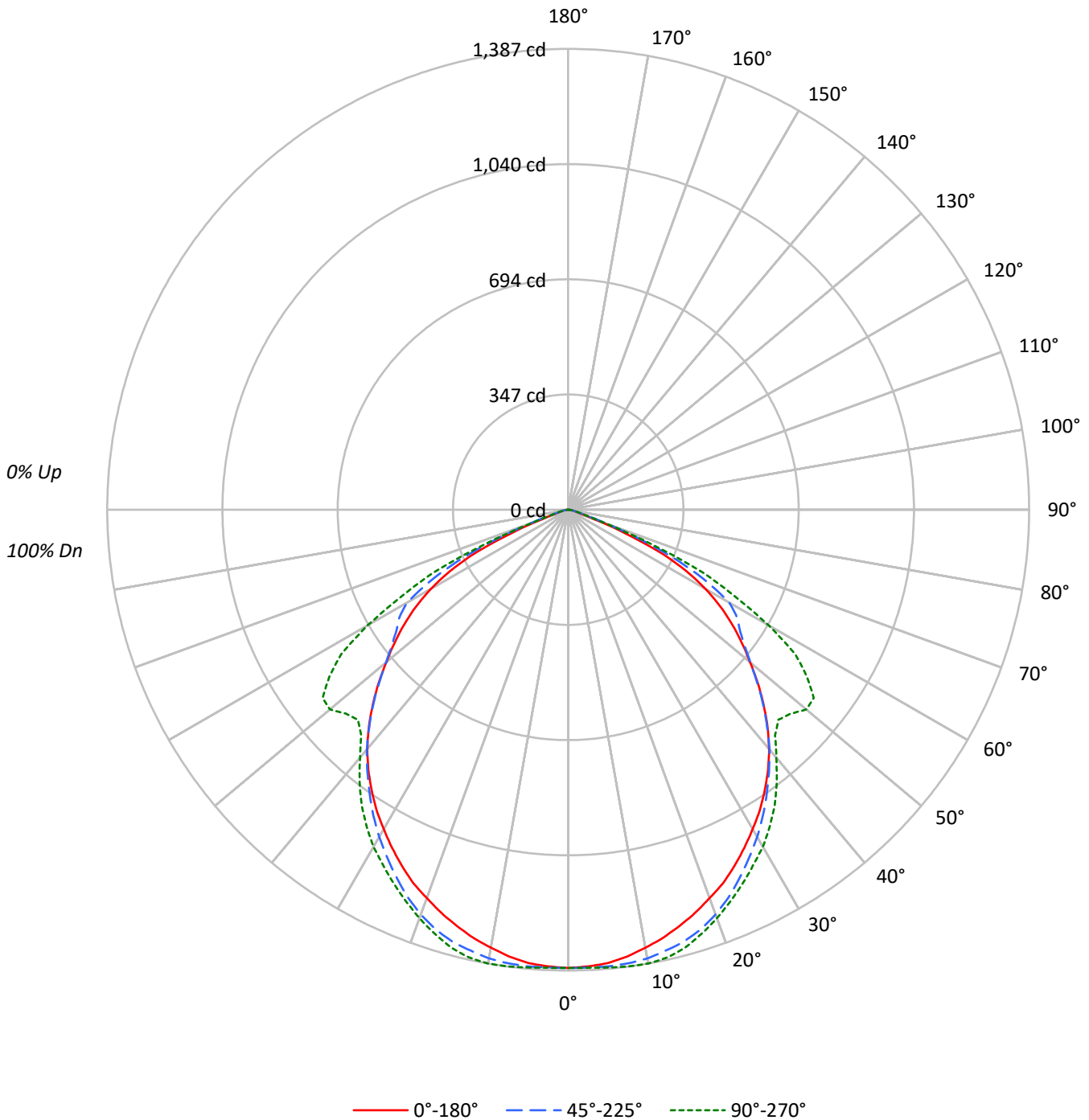
Test Method: LM-41-14  
Report Number: 14328  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GCAML-2U6T8S66I  
Description: 2 X 2 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR AND 36 CELL  
FRAMELESS METAL DIFFUSE 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: 3381.9 lumens  
Efficiency: 63.8%  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.31  
Luminous Opening: Rectangular (W 1.73' x L: 1.73' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

TEST NUMBER: 14328  
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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	76	76	76	76	74	74	74	74	71	71	71		68	68	68		65	65	65	64
1	71	68	66	64	69	67	65	63	64	62	61		61	60	59		59	58	57	56
2	65	60	56	53	63	59	56	53	57	54	51		55	52	50		53	51	49	48
3	59	53	49	45	58	52	48	45	51	47	44		49	46	43		47	45	42	41
4	55	48	42	38	53	47	42	38	45	41	38		44	40	37		42	39	37	35
5	50	43	37	33	49	42	37	33	41	36	33		39	36	32		38	35	32	31
6	47	39	33	29	45	38	33	29	37	32	29		36	32	29		35	31	28	27
7	43	35	30	26	42	34	29	26	34	29	26		33	28	25		32	28	25	24
8	40	32	27	23	39	32	27	23	31	26	23		30	26	23		29	25	23	22
9	38	29	24	21	37	29	24	21	28	24	21		28	24	21		27	23	21	19
10	35	27	22	19	34	27	22	19	26	22	19		26	22	19		25	21	19	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4961	4961	4961
5°	4945	4981	4993
10°	4889	5008	5065
15°	4827	5011	5079
20°	4761	4962	5008
25°	4696	4847	4928
30°	4610	4722	4864
35°	4527	4574	4759
40°	4416	4425	4574
45°	4229	4222	4548
50°	3997	4002	5234
55°	3780	3949	5501
60°	3438	4024	5017
65°	2639	3121	3813
70°	852	1310	1188
75°	353	395	467
80°	292	263	292
85°	202	210	140



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	131.2	3.9	2.5	0°	1379	1379	1379	1379	1379	
10°-20°	377.0	11.1	7.1	5°	1370	1373	1380	1382	1383	130
20°-30°	561.7	16.6	10.6	15°	1296	1317	1346	1363	1364	366
30°-40°	657.9	19.5	12.4	25°	1183	1213	1222	1232	1242	545
40°-50°	654.9	19.4	12.4	35°	1031	1054	1042	1061	1084	644
50°-60°	607.2	18.0	11.5	45°	832	831	830	844	894	641
60°-70°	342.5	10.1	6.5	55°	603	582	630	793	877	537
70°-80°	43.7	1.3	0.8	65°	310	303	367	381	448	290
80°-90°	5.8	0.2	0.1	75°	25	30	28	32	34	35
90°-100°	0.0	0.0	0.0	85°	5	4	5	4	3	6
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°	1069.9	31.6	20.2							
0°-40°	1727.8	51.1	32.6							
0°-60°	2989.9	88.4	56.4							
0°-90°	3381.9	100.0	63.8							
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°	3381.9	100.0	63.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1379.4	1379.4	1379.4	1379.4	1379.4
2.5°	1375.8	1379.4	1378.9	1380.5	1380.0
5°	1369.8	1373.4	1379.8	1381.9	1383.0
7.5°	1356.5	1365.6	1377.3	1384.6	1386.5
10°	1338.7	1352.9	1371.3	1383.0	1386.9
12.5°	1319.8	1335.6	1359.0	1376.8	1380.4
15°	1296.4	1316.7	1345.8	1362.7	1364.1
17.5°	1272.0	1294.3	1324.9	1336.0	1337.7
20°	1243.9	1269.9	1296.4	1303.5	1308.5
22.5°	1217.0	1243.5	1262.4	1269.4	1275.6
25°	1183.4	1212.9	1221.5	1231.8	1241.9
27.5°	1147.3	1179.4	1179.8	1190.9	1205.8
30°	1110.1	1142.1	1137.0	1151.3	1171.2
32.5°	1072.9	1099.8	1091.1	1109.6	1129.3
35°	1031.2	1054.5	1041.9	1061.2	1084.0
37.5°	987.4	1005.2	992.4	1007.1	1030.6
40°	940.5	952.2	942.5	948.6	974.2
42.5°	888.1	894.1	886.0	889.5	921.6
45°	831.5	831.0	830.0	843.6	894.2
47.5°	774.5	766.9	771.3	817.8	908.4
50°	714.4	701.1	715.3	819.7	935.4
52.5°	658.7	640.0	667.1	822.2	931.2
55°	602.9	581.5	629.8	793.3	877.3
57.5°	543.2	527.0	602.3	727.0	810.1
60°	478.0	468.4	559.5	638.4	697.5
62.5°	401.1	393.6	474.0	513.2	564.1
65°	310.1	303.0	366.7	381.4	448.1
67.5°	187.3	203.0	241.3	248.9	269.4
70°	81.0	103.8	124.6	124.8	113.0
72.5°	40.3	49.9	55.4	59.6	53.9
75°	25.4	30.0	28.4	32.5	33.6
77.5°	18.3	19.8	20.2	20.8	22.3
80°	14.1	13.7	12.7	14.1	14.1
82.5°	8.6	9.7	8.6	7.0	7.6
85°	4.9	4.5	5.1	4.0	3.4
87.5°	2.4	2.4	1.9	0.5	0.9
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)