

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: PORTFOLIO

Report Number: P402419

Luminaire Tested: **LA1MRT52D010TR509040SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-8)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MRT52D010TR509040SB1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

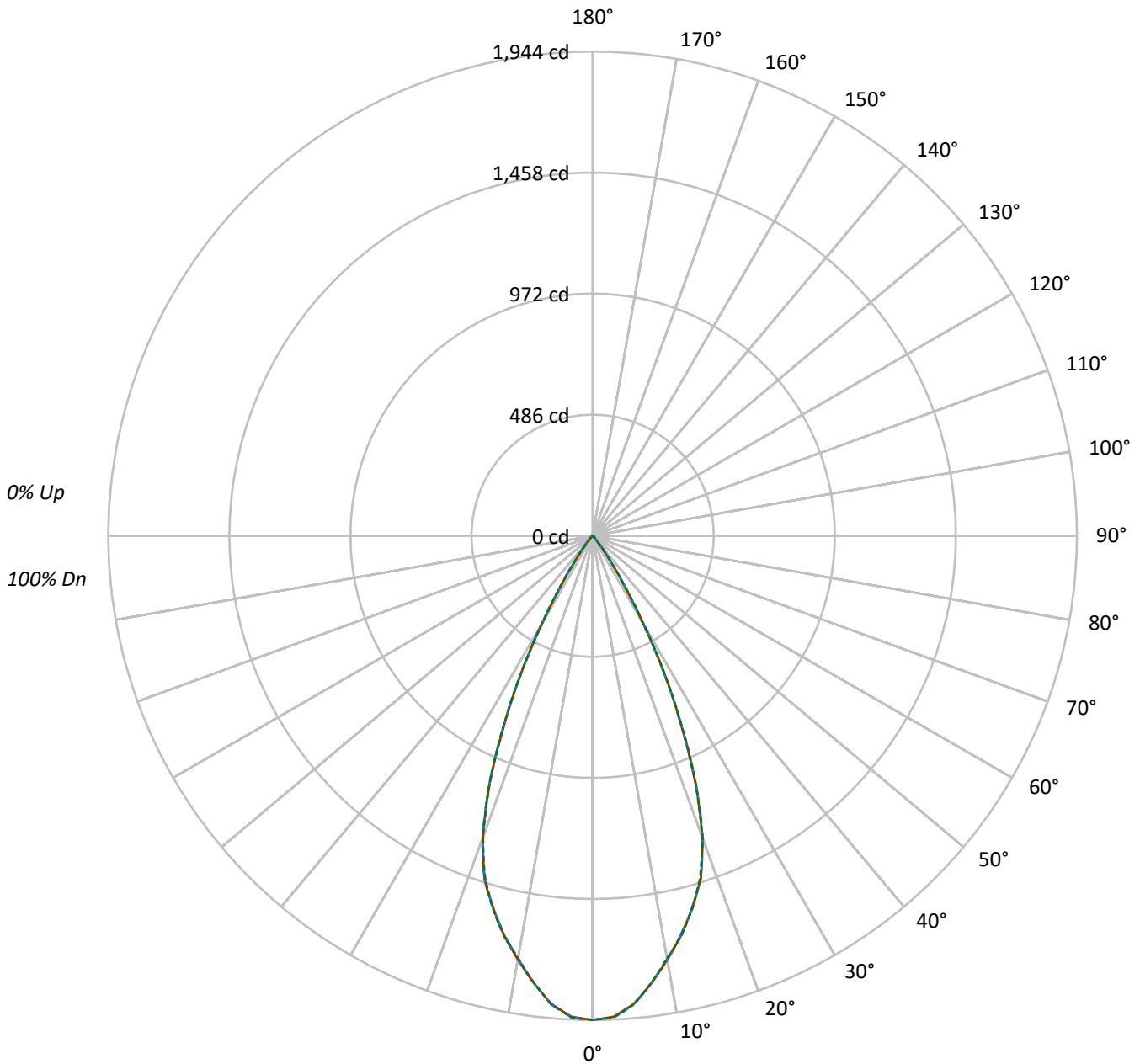
Lumens per Lamp: N/A
Luminaire Lumens: 1097.2 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90																			
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73																			
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70																			
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67																			
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	155504	155504	155504
5°	151577	151777	151689
10°	140348	140145	139909
15°	127927	128076	128250
20°	109729	110070	109644
25°	74385	75303	75171
30°	36849	37080	36950
35°	12305	12374	11641
40°	2809	2736	2360
45°	1097	1222	1018
50°	896	933	809
55°	795	795	697
60°	624	688	576
65°	416	473	341
70°	0	94	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	15.9
10°-20°	429.0	39.1
20°-30°	381.9	34.8
30°-40°	95.3	8.7
40°-50°	9.1	0.8
50°-60°	5.0	0.5
60°-70°	2.0	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	985.8	89.9
0°-40°	1081.1	98.5
0°-60°	1095.2	99.8
0°-90°	1097.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1888	1894	1890	1888	1889	175
15°	1545	1552	1546	1544	1548	429
25°	843	852	853	859	852	381
35°	126	131	127	125	119	95
45°	10	10	11	9	9	9
55°	6	6	6	5	5	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1943.8	1943.8	1943.8	1943.8	1943.8
2.5°	1932.7	1941.3	1935.2	1935.6	1935.9
5°	1887.5	1894.3	1890.0	1888.5	1888.9
7.5°	1811.0	1817.1	1810.3	1812.8	1809.9
10°	1727.7	1733.8	1725.2	1725.2	1722.3
12.5°	1642.9	1649.4	1639.0	1637.9	1644.7
15°	1544.6	1552.5	1546.4	1543.5	1548.5
17.5°	1445.1	1444.0	1440.5	1438.7	1436.9
20°	1288.9	1295.4	1292.9	1282.1	1287.9
22.5°	1083.6	1083.9	1087.5	1089.3	1084.6
25°	842.7	852.0	853.1	858.8	851.6
27.5°	624.4	626.2	616.5	617.2	624.0
30°	398.9	404.3	401.4	404.3	400.0
32.5°	230.1	234.8	233.0	235.2	235.5
35°	126.0	130.7	126.7	124.9	119.2
37.5°	62.5	62.5	63.9	58.9	56.0
40°	26.9	27.6	26.2	24.8	22.6
42.5°	13.6	13.6	14.4	12.2	11.8
45°	9.7	9.7	10.8	9.3	9.0
47.5°	8.3	8.3	9.0	7.9	7.5
50°	7.2	7.2	7.5	6.8	6.5
52.5°	6.5	6.5	6.8	6.1	5.7
55°	5.7	5.7	5.7	5.4	5.0
57.5°	4.7	5.0	5.0	4.7	4.3
60°	3.9	3.9	4.3	3.9	3.6
62.5°	3.2	3.2	3.2	3.2	2.9
65°	2.2	2.2	2.5	2.2	1.8
67.5°	0.4	0.7	1.8	0.0	0.0
70°	0.0	0.0	0.4	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)