

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: P402381

Luminaire Tested: **LA1MRT152D010TR509035MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402381
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: LA1MRT152D010TR509035MMS1MW
Description: 1 INCH 50° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

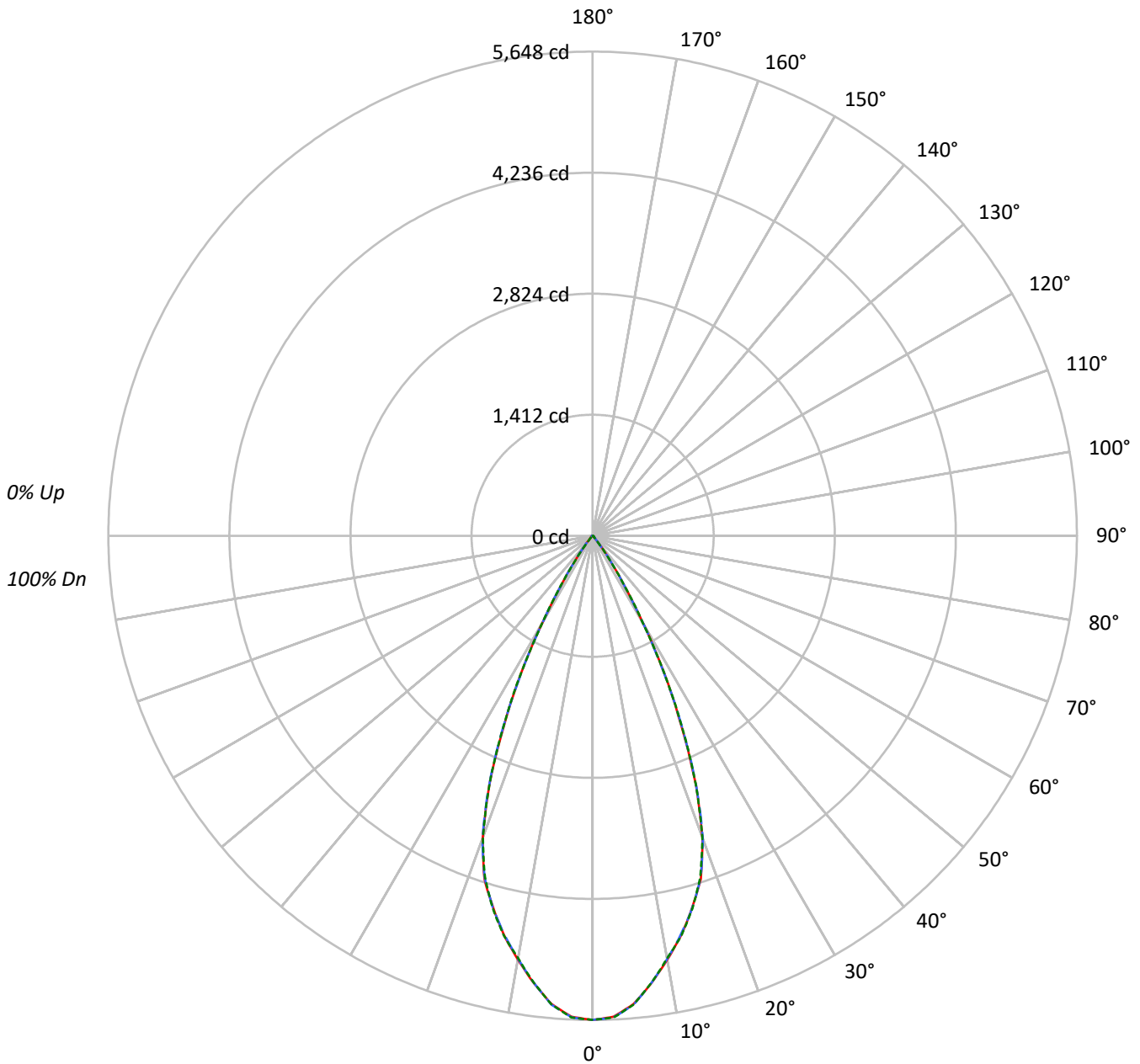
Lumens per Lamp: N/A
Luminaire Lumens: 3187.8 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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°	451808	451808	451808
5°	440379	440966	440717
10°	407762	407169	406495
15°	371672	372103	372625
20°	318819	319798	318555
25°	216112	218778	218407
30°	107054	107729	107350
35°	35754	35959	33820
40°	8167	7947	6861
45°	3190	3541	2953
50°	2601	2726	2340
55°	2329	2329	2036
60°	1840	2000	1664
65°	1193	1382	984
70°	0	234	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.4	15.9
10°-20°	1246.3	39.1
20°-30°	1109.5	34.8
30°-40°	276.9	8.7
40°-50°	26.4	0.8
50°-60°	14.4	0.5
60°-70°	5.8	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°	2864.2	89.8
0°-40°	3141.1	98.5
0°-60°	3182.0	99.8
0°-90°	3187.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3187.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5648	5648	5648	5648	5648	
5°	5484	5504	5491	5487	5488	508
15°	4488	4510	4493	4484	4499	1247
25°	2448	2475	2478	2495	2474	1106
35°	366	380	368	363	346	275
45°	28	28	31	27	26	27
55°	17	17	17	16	15	15
65°	6	6	7	6	5	5
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°	5647.6	5647.6	5647.6	5647.6	5647.6
2.5°	5615.2	5640.3	5622.5	5623.6	5624.6
5°	5483.8	5503.6	5491.1	5486.9	5488.0
7.5°	5261.6	5279.3	5259.5	5266.8	5258.5
10°	5019.6	5037.3	5012.3	5012.3	5004.0
12.5°	4773.4	4792.2	4761.9	4758.8	4778.6
15°	4487.6	4510.5	4492.8	4484.5	4499.1
17.5°	4198.6	4195.5	4185.1	4179.9	4174.7
20°	3744.9	3763.7	3756.4	3725.1	3741.8
22.5°	3148.2	3149.2	3159.7	3164.9	3151.3
25°	2448.3	2475.4	2478.5	2495.2	2474.3
27.5°	1814.0	1819.2	1791.1	1793.2	1813.0
30°	1158.9	1174.6	1166.2	1174.6	1162.1
32.5°	668.7	682.2	677.0	683.3	684.3
35°	366.1	379.7	368.2	363.0	346.3
37.5°	181.5	181.5	185.7	171.1	162.7
40°	78.2	80.3	76.1	72.0	65.7
42.5°	39.6	39.6	41.7	35.5	34.4
45°	28.2	28.2	31.3	27.1	26.1
47.5°	24.0	24.0	26.1	22.9	21.9
50°	20.9	20.9	21.9	19.8	18.8
52.5°	18.8	18.8	19.8	17.7	16.7
55°	16.7	16.7	16.7	15.6	14.6
57.5°	13.6	14.6	14.6	13.6	12.5
60°	11.5	11.5	12.5	11.5	10.4
62.5°	9.4	9.4	9.4	9.4	8.3
65°	6.3	6.3	7.3	6.3	5.2
67.5°	1.0	2.1	5.2	0.0	0.0
70°	0.0	0.0	1.0	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)