

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: P402060

Luminaire Tested: **LA1MR152D010 EA1M152509030SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402060
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: LA1MR152D010 EA1M152509030SC1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

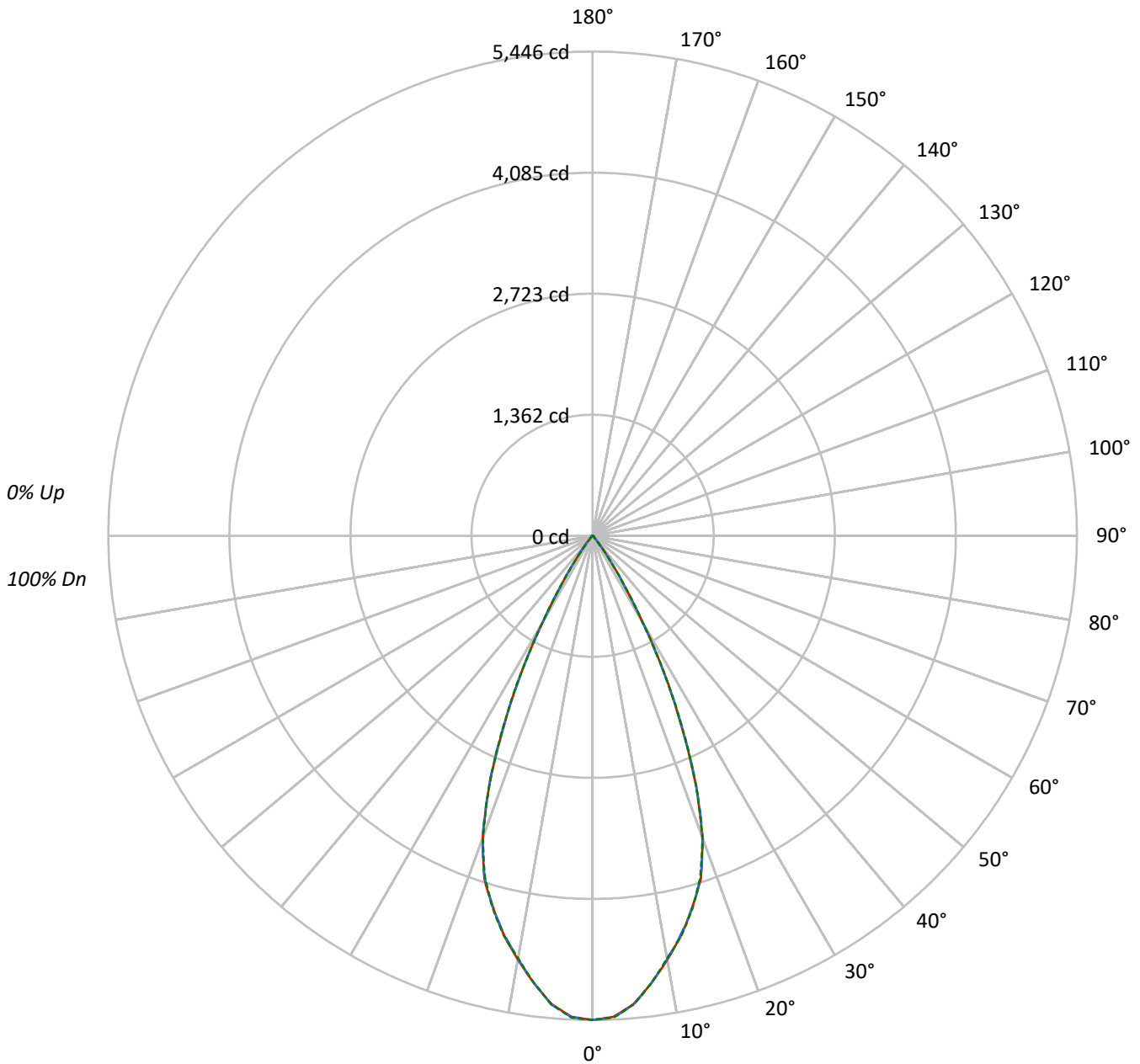
Lumens per Lamp: N/A
Luminaire Lumens: 3073.7 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	435640	435640	435640
5°	424615	425186	424945
10°	393173	392596	391946
15°	358371	358785	359290
20°	307411	308347	307147
25°	208370	210948	210595
30°	103230	103877	103507
35°	34475	34680	32609
40°	7874	7665	6621
45°	3077	3417	2840
50°	2502	2626	2253
55°	2246	2246	1967
60°	1776	1936	1616
65°	1136	1325	946
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°	490.2	15.9
10°-20°	1201.7	39.1
20°-30°	1069.8	34.8
30°-40°	267.0	8.7
40°-50°	25.4	0.8
50°-60°	13.9	0.5
60°-70°	5.6	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°	2761.7	89.8
0°-40°	3028.7	98.5
0°-60°	3068.1	99.8
0°-90°	3073.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3073.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5446	5446	5446	5446	5446	
5°	5288	5307	5295	5291	5292	490
15°	4327	4349	4332	4324	4338	1202
25°	2361	2387	2390	2406	2386	1066
35°	353	366	355	350	334	266
45°	27	27	30	26	25	26
55°	16	16	16	15	14	14
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°	5445.5	5445.5	5445.5	5445.5	5445.5
2.5°	5414.3	5438.4	5421.3	5422.3	5423.3
5°	5287.5	5306.7	5294.6	5290.6	5291.6
7.5°	5073.3	5090.4	5071.3	5078.3	5070.3
10°	4840.0	4857.1	4832.9	4832.9	4824.9
12.5°	4602.6	4620.7	4591.5	4588.5	4607.6
15°	4327.0	4349.1	4332.0	4324.0	4338.1
17.5°	4048.4	4045.4	4035.3	4030.3	4025.3
20°	3610.9	3629.0	3621.9	3591.7	3607.8
22.5°	3035.5	3036.5	3046.6	3051.6	3038.6
25°	2360.6	2386.8	2389.8	2405.9	2385.8
27.5°	1749.1	1754.1	1727.0	1729.0	1748.1
30°	1117.5	1132.5	1124.5	1132.5	1120.5
32.5°	644.7	657.8	652.8	658.8	659.8
35°	353.0	366.1	355.1	350.0	333.9
37.5°	175.0	175.0	179.0	165.0	156.9
40°	75.4	77.4	73.4	69.4	63.4
42.5°	38.2	38.2	40.2	34.2	33.2
45°	27.2	27.2	30.2	26.2	25.1
47.5°	23.1	23.1	25.1	22.1	21.1
50°	20.1	20.1	21.1	19.1	18.1
52.5°	18.1	18.1	19.1	17.1	16.1
55°	16.1	16.1	16.1	15.1	14.1
57.5°	13.1	14.1	14.1	13.1	12.1
60°	11.1	11.1	12.1	11.1	10.1
62.5°	9.1	9.1	9.1	9.1	8.0
65°	6.0	6.0	7.0	6.0	5.0
67.5°	1.0	2.0	5.0	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)