

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: P402042

Luminaire Tested: **LA1MR152D010 EA1M152309030MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2005-766-2)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR152D010 EA1M152309030MW1MW
Description: 1 INCH 30° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

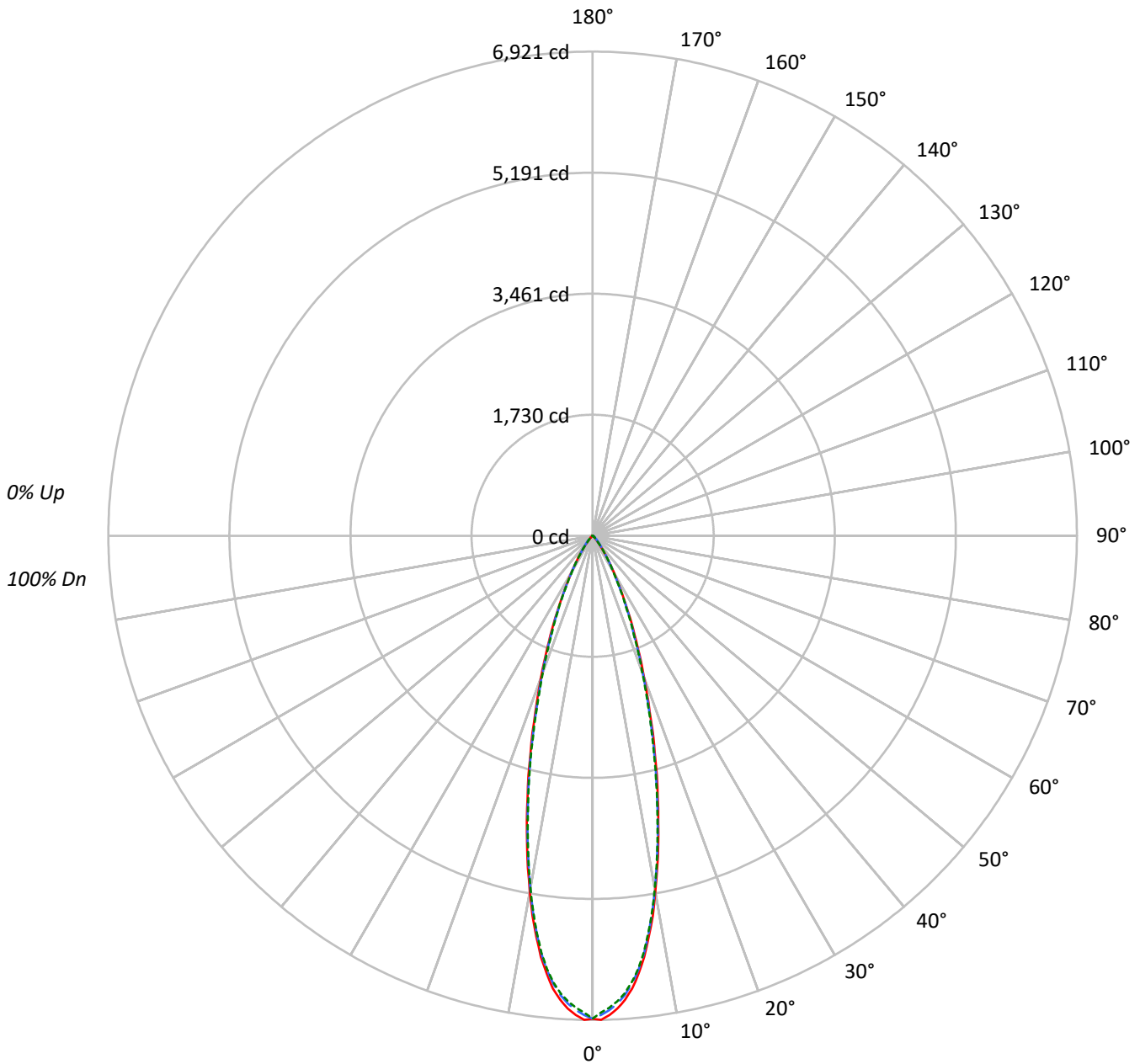
Lumens per Lamp: N/A
Luminaire Lumens: 2352.9 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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	105	103	102	101	100	99	98	97	95																			
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91																			
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87																			
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83																			
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79																			
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76																			
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73																			
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70																			
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67																			
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2140004	2140004	2140004
5°	2021837	2001237	1994671
10°	1625765	1613426	1611537
15°	1137210	1117889	1113075
20°	709509	691629	683711
25°	410527	398179	393014
30°	218570	212127	207795
35°	104715	108159	105850
40°	43827	59650	45041
45°	22403	36914	23718
50°	14517	21751	15963
55°	9728	14647	11404
60°	5580	9300	7440
65°	2201	6602	2201
70°	0	2719	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.3	24.4
10°-20°	956.8	40.7
20°-30°	550.4	23.4
30°-40°	191.5	8.1
40°-50°	54.3	2.3
50°-60°	20.8	0.9
60°-70°	5.6	0.2
70°-80°	0.1	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°	2080.5	88.4
0°-40°	2272.0	96.6
0°-60°	2347.1	99.8
0°-90°	2352.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2352.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6903	6903	6903	6903	6903	
5°	6497	6458	6431	6443	6410	577
15°	3543	3528	3483	3474	3468	967
25°	1200	1185	1164	1158	1149	563
35°	277	289	286	286	280	187
45°	51	60	84	60	54	44
55°	18	21	27	21	21	17
65°	3	6	9	6	3	3
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°	6903.2	6903.2	6903.2	6903.2	6903.2
1°	6921.3	6888.2	6852.1	6852.1	6816.0
2°	6855.1	6825.0	6785.9	6788.9	6749.8
3°	6767.9	6737.8	6698.7	6704.7	6668.6
4°	6647.6	6608.5	6581.4	6590.4	6557.3
5°	6497.2	6458.1	6431.0	6443.0	6409.9
6°	6292.6	6265.6	6241.5	6256.5	6226.5
7°	6064.0	6034.0	6015.9	6027.9	6003.9
8°	5784.3	5763.2	5742.2	5754.2	5730.1
9°	5498.5	5465.4	5444.4	5453.4	5435.4
10°	5164.7	5149.6	5125.5	5134.6	5119.5
11°	4842.8	4842.8	4797.7	4782.6	4791.7
12°	4511.9	4508.9	4466.8	4448.8	4454.8
13°	4178.0	4175.0	4132.9	4117.9	4120.9
14°	3847.2	3850.2	3805.1	3793.0	3790.0
15°	3543.4	3528.3	3483.2	3474.2	3468.2
16°	3224.5	3221.5	3176.4	3164.4	3158.3
17°	2938.8	2923.7	2878.6	2866.6	2857.6
18°	2641.0	2644.0	2598.9	2589.8	2574.8
19°	2388.3	2382.3	2340.2	2331.2	2316.1
20°	2150.7	2123.6	2096.5	2087.5	2072.5
22.5°	1621.3	1606.2	1570.2	1561.1	1558.1
25°	1200.2	1185.1	1164.1	1158.1	1149.0
26°	1049.8	1052.8	1025.7	1019.7	1013.7
27°	929.5	923.4	899.4	896.4	887.3
28°	800.1	806.1	779.1	776.1	770.0
29°	697.8	697.8	682.8	673.8	667.8
30°	610.6	607.6	592.6	586.6	580.5
32.5°	421.1	418.1	412.1	409.1	403.1
35°	276.7	288.8	285.8	285.8	279.7
37.5°	171.5	195.5	204.5	201.5	183.5
40°	108.3	126.3	147.4	135.4	111.3
42.5°	72.2	87.2	108.3	90.2	72.2
45°	51.1	60.2	84.2	60.2	54.1
47.5°	39.1	45.1	63.2	45.1	39.1
50°	30.1	36.1	45.1	36.1	33.1
52.5°	24.1	27.1	36.1	27.1	24.1
55°	18.0	21.1	27.1	21.1	21.1
57.5°	15.0	18.0	21.1	18.0	15.0
60°	9.0	12.0	15.0	12.0	12.0
62.5°	6.0	9.0	12.0	9.0	6.0
65°	3.0	6.0	9.0	6.0	3.0
67.5°	0.0	3.0	3.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
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°







70°	0.0	0.0	3.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)