

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: P402050

Luminaire Tested: **LA1MR152D010 EA1M152309040MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402050
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 EA1M152309040MW1MW
Description: 1 INCH 30° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

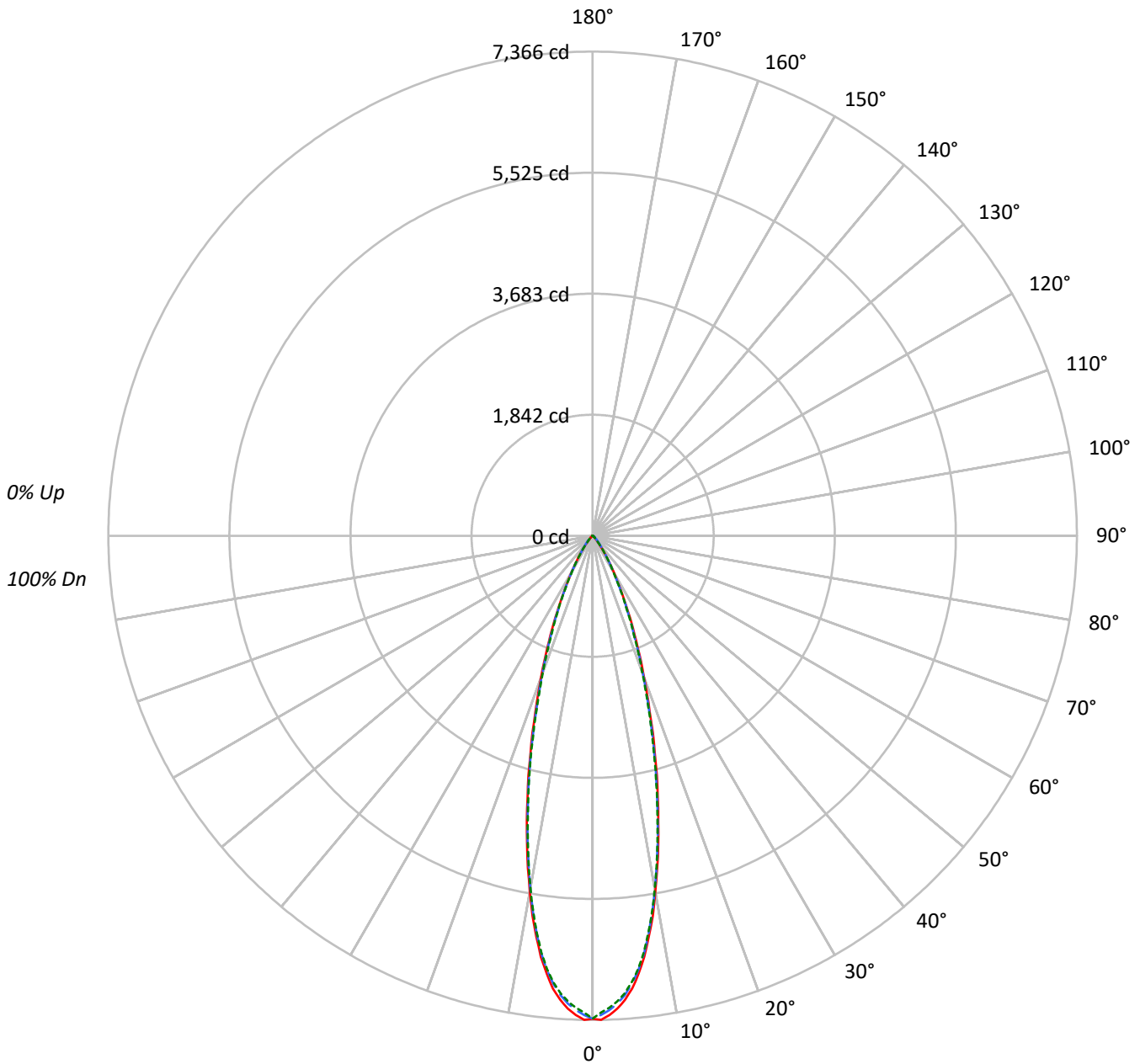
Lumens per Lamp: N/A
Luminaire Lumens: 2504.2 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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°	2277645	2277645	2277645
5°	2151851	2129943	2122972
10°	1730305	1717210	1715195
15°	1210351	1189779	1184644
20°	755134	736132	727687
25°	436933	423765	418292
30°	232638	225765	221183
35°	111451	115084	112662
40°	46659	63494	47954
45°	23849	39281	25252
50°	15433	23149	16976
55°	10377	15566	12107
60°	5952	9920	7936
65°	2347	7042	2347
70°	0	2900	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	24.4
10°-20°	1018.3	40.7
20°-30°	585.8	23.4
30°-40°	203.8	8.1
40°-50°	57.8	2.3
50°-60°	22.1	0.9
60°-70°	6.0	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°	2214.3	88.4
0°-40°	2418.1	96.6
0°-60°	2498.1	99.8
0°-90°	2504.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7347	7347	7347	7347	7347	
5°	6915	6873	6845	6857	6822	614
15°	3771	3755	3707	3698	3691	1029
25°	1277	1261	1239	1232	1223	599
35°	294	307	304	304	298	199
45°	54	64	90	64	58	47
55°	19	22	29	22	22	18
65°	3	6	10	6	3	4
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°	7347.2	7347.2	7347.2	7347.2	7347.2
1°	7366.4	7331.2	7292.8	7292.8	7254.4
2°	7296.0	7264.0	7222.4	7225.6	7184.0
3°	7203.2	7171.1	7129.5	7135.9	7097.5
4°	7075.1	7033.5	7004.7	7014.3	6979.1
5°	6915.0	6873.4	6844.6	6857.4	6822.2
6°	6697.3	6668.5	6642.9	6658.9	6626.9
7°	6454.0	6422.0	6402.8	6415.6	6390.0
8°	6156.3	6133.9	6111.5	6124.3	6098.7
9°	5852.2	5817.0	5794.5	5804.1	5784.9
10°	5496.8	5480.8	5455.2	5464.8	5448.8
11°	5154.3	5154.3	5106.2	5090.2	5099.8
12°	4802.1	4798.9	4754.1	4734.9	4741.3
13°	4446.8	4443.6	4398.7	4382.7	4385.9
14°	4094.6	4097.8	4049.8	4037.0	4033.8
15°	3771.3	3755.2	3707.2	3697.6	3691.2
16°	3431.9	3428.7	3380.7	3367.9	3361.5
17°	3127.8	3111.8	3063.7	3050.9	3041.3
18°	2810.8	2814.0	2766.0	2756.4	2740.4
19°	2541.9	2535.5	2490.7	2481.1	2465.1
20°	2289.0	2260.2	2231.4	2221.8	2205.8
22.5°	1725.6	1709.6	1671.1	1661.5	1658.3
25°	1277.4	1261.4	1238.9	1232.5	1222.9
26°	1117.3	1120.5	1091.7	1085.3	1078.9
27°	989.2	982.8	957.2	954.0	944.4
28°	851.6	858.0	829.2	826.0	819.6
29°	742.7	742.7	726.7	717.1	710.7
30°	649.9	646.7	630.7	624.3	617.9
32.5°	448.2	445.0	438.6	435.4	429.0
35°	294.5	307.3	304.1	304.1	297.7
37.5°	182.5	208.1	217.7	214.5	195.3
40°	115.3	134.5	156.9	144.1	118.5
42.5°	76.8	92.8	115.3	96.0	76.8
45°	54.4	64.0	89.6	64.0	57.6
47.5°	41.6	48.0	67.2	48.0	41.6
50°	32.0	38.4	48.0	38.4	35.2
52.5°	25.6	28.8	38.4	28.8	25.6
55°	19.2	22.4	28.8	22.4	22.4
57.5°	16.0	19.2	22.4	19.2	16.0
60°	9.6	12.8	16.0	12.8	12.8
62.5°	6.4	9.6	12.8	9.6	6.4
65°	3.2	6.4	9.6	6.4	3.2
67.5°	0.0	3.2	3.2	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	3.2	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)