

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: P402046

Luminaire Tested: **LA1MR152D010 EA1M152309035MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402046
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 EA1M152309035MW1MW
Description: 1 INCH 30° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

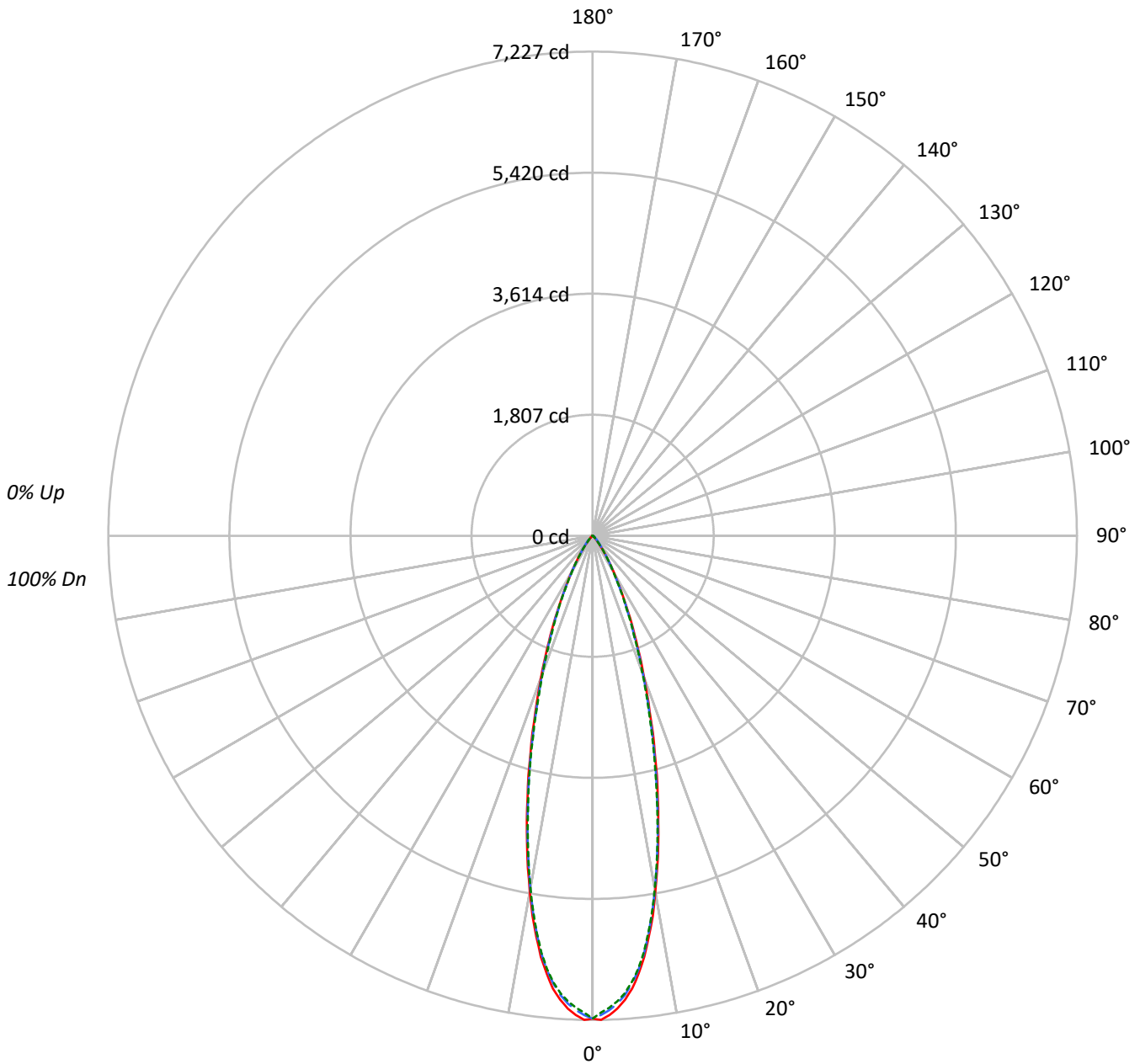
Lumens per Lamp: N/A
Luminaire Lumens: 2456.9 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2234586	2234586	2234586
5°	2111179	2089676	2082829
10°	1697599	1684756	1682772
15°	1187468	1167282	1162243
20°	740850	722210	713930
25°	428656	415761	410390
30°	228235	221505	216995
35°	109370	112927	110543
40°	45769	62280	47024
45°	23411	38536	24770
50°	15144	22715	16639
55°	10161	15295	11890
60°	5828	9734	7812
65°	2274	6895	2274
70°	0	2810	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.6	24.4
10°-20°	999.1	40.7
20°-30°	574.8	23.4
30°-40°	200.0	8.1
40°-50°	56.7	2.3
50°-60°	21.7	0.9
60°-70°	5.9	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°	2172.4	88.4
0°-40°	2372.4	96.6
0°-60°	2450.9	99.8
0°-90°	2456.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7208	7208	7208	7208	7208	
5°	6784	6744	6715	6728	6693	603
15°	3700	3684	3637	3628	3621	1010
25°	1253	1238	1216	1209	1200	588
35°	289	302	298	298	292	195
45°	53	63	88	63	56	46
55°	19	22	28	22	22	18
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°	7208.3	7208.3	7208.3	7208.3	7208.3
1°	7227.2	7192.6	7154.9	7154.9	7117.3
2°	7158.1	7126.7	7085.8	7089.0	7048.2
3°	7067.0	7035.6	6994.8	7001.0	6963.4
4°	6941.4	6900.5	6872.3	6881.7	6847.1
5°	6784.3	6743.5	6715.2	6727.8	6693.2
6°	6570.7	6542.5	6517.3	6533.0	6501.6
7°	6332.0	6300.6	6281.8	6294.3	6269.2
8°	6039.9	6017.9	5996.0	6008.5	5983.4
9°	5741.5	5707.0	5685.0	5694.4	5675.6
10°	5392.9	5377.2	5352.1	5361.5	5345.8
11°	5056.8	5056.8	5009.7	4994.0	5003.4
12°	4711.3	4708.2	4664.2	4645.4	4651.7
13°	4362.7	4359.6	4315.6	4299.9	4303.0
14°	4017.2	4020.3	3973.2	3960.7	3957.5
15°	3700.0	3684.3	3637.1	3627.7	3621.4
16°	3367.0	3363.9	3316.8	3304.2	3297.9
17°	3068.6	3052.9	3005.8	2993.3	2983.8
18°	2757.7	2760.8	2713.7	2704.3	2688.6
19°	2493.9	2487.6	2443.6	2434.2	2418.5
20°	2245.7	2217.5	2189.2	2179.8	2164.1
22.5°	1692.9	1677.2	1639.5	1630.1	1627.0
25°	1253.2	1237.5	1215.5	1209.2	1199.8
26°	1096.2	1099.3	1071.0	1064.8	1058.5
27°	970.5	964.3	939.1	936.0	926.6
28°	835.5	841.8	813.5	810.3	804.1
29°	728.7	728.7	713.0	703.6	697.3
30°	637.6	634.5	618.8	612.5	606.2
32.5°	439.7	436.6	430.3	427.2	420.9
35°	289.0	301.5	298.4	298.4	292.1
37.5°	179.0	204.2	213.6	210.4	191.6
40°	113.1	131.9	153.9	141.3	116.2
42.5°	75.4	91.1	113.1	94.2	75.4
45°	53.4	62.8	87.9	62.8	56.5
47.5°	40.8	47.1	66.0	47.1	40.8
50°	31.4	37.7	47.1	37.7	34.5
52.5°	25.1	28.3	37.7	28.3	25.1
55°	18.8	22.0	28.3	22.0	22.0
57.5°	15.7	18.8	22.0	18.8	15.7
60°	9.4	12.6	15.7	12.6	12.6
62.5°	6.3	9.4	12.6	9.4	6.3
65°	3.1	6.3	9.4	6.3	3.1
67.5°	0.0	3.1	3.1	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	3.1	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)