

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: P402039

Luminaire Tested: **LA1MR152D010 EA1M152309027SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402039
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 EA1M152309027SB1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

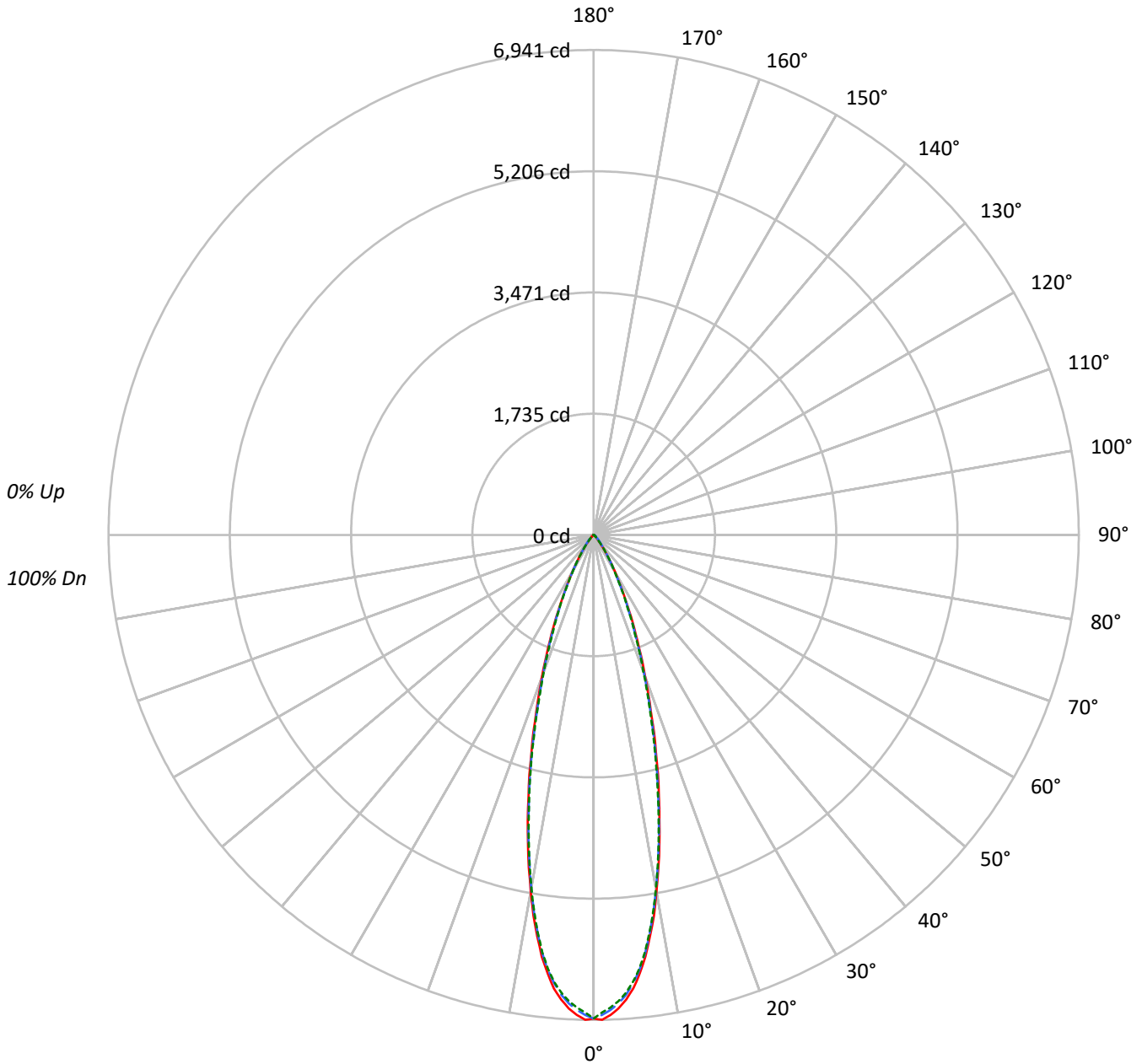
Lumens per Lamp: N/A
Luminaire Lumens: 2359.6 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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°	2146142	2146142	2146142
5°	2027594	2006962	2000396
10°	1630392	1618053	1616164
15°	1140451	1121099	1116252
20°	711522	693608	685658
25°	411690	399308	394143
30°	219214	212735	208404
35°	105018	108462	106153
40°	43948	59811	45162
45°	22490	37046	23806
50°	14565	21799	16012
55°	9783	14647	11404
60°	5580	9362	7502
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°	574.9	24.4
10°-20°	959.5	40.7
20°-30°	552.0	23.4
30°-40°	192.1	8.1
40°-50°	54.5	2.3
50°-60°	20.8	0.9
60°-70°	5.7	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°	2086.4	88.4
0°-40°	2278.5	96.6
0°-60°	2353.8	99.8
0°-90°	2359.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6923	6923	6923	6923	6923	
5°	6516	6476	6449	6461	6428	579
15°	3554	3538	3493	3484	3478	970
25°	1204	1188	1167	1161	1152	565
35°	278	290	287	287	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°	6923.0	6923.0	6923.0	6923.0	6923.0
1°	6941.1	6907.9	6871.7	6871.7	6835.5
2°	6874.7	6844.5	6805.3	6808.3	6769.1
3°	6787.2	6757.1	6717.9	6723.9	6687.7
4°	6666.6	6627.4	6600.2	6609.3	6576.1
5°	6515.7	6476.5	6449.4	6461.4	6428.3
6°	6310.6	6283.5	6259.3	6274.4	6244.3
7°	6081.4	6051.2	6033.1	6045.2	6021.0
8°	5800.8	5779.7	5758.6	5770.7	5746.5
9°	5514.2	5481.1	5460.0	5469.0	5450.9
10°	5179.4	5164.3	5140.2	5149.2	5134.2
11°	4856.6	4856.6	4811.4	4796.3	4805.4
12°	4524.8	4521.8	4479.6	4461.5	4467.5
13°	4190.0	4187.0	4144.7	4129.7	4132.7
14°	3858.2	3861.2	3815.9	3803.9	3800.9
15°	3553.5	3538.4	3493.2	3484.1	3478.1
16°	3233.7	3230.7	3185.5	3173.4	3167.4
17°	2947.2	2932.1	2886.8	2874.8	2865.7
18°	2648.5	2651.5	2606.3	2597.2	2582.2
19°	2395.1	2389.1	2346.9	2337.8	2322.7
20°	2156.8	2129.7	2102.5	2093.5	2078.4
22.5°	1625.9	1610.8	1574.6	1565.6	1562.6
25°	1203.6	1188.5	1167.4	1161.4	1152.3
26°	1052.8	1055.8	1028.6	1022.6	1016.6
27°	932.1	926.1	901.9	898.9	889.9
28°	802.4	808.4	781.3	778.3	772.2
29°	699.8	699.8	684.8	675.7	669.7
30°	612.4	609.3	594.3	588.2	582.2
32.5°	422.3	419.3	413.3	410.3	404.2
35°	277.5	289.6	286.6	286.6	280.5
37.5°	171.9	196.1	205.1	202.1	184.0
40°	108.6	126.7	147.8	135.7	111.6
42.5°	72.4	87.5	108.6	90.5	72.4
45°	51.3	60.3	84.5	60.3	54.3
47.5°	39.2	45.2	63.3	45.2	39.2
50°	30.2	36.2	45.2	36.2	33.2
52.5°	24.1	27.1	36.2	27.1	24.1
55°	18.1	21.1	27.1	21.1	21.1
57.5°	15.1	18.1	21.1	18.1	15.1
60°	9.0	12.1	15.1	12.1	12.1
62.5°	6.0	9.0	12.1	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)