

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: P402063

Luminaire Tested: **LA1MR152D010 EA1M152509035SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402063
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 EA1M152509035SB1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

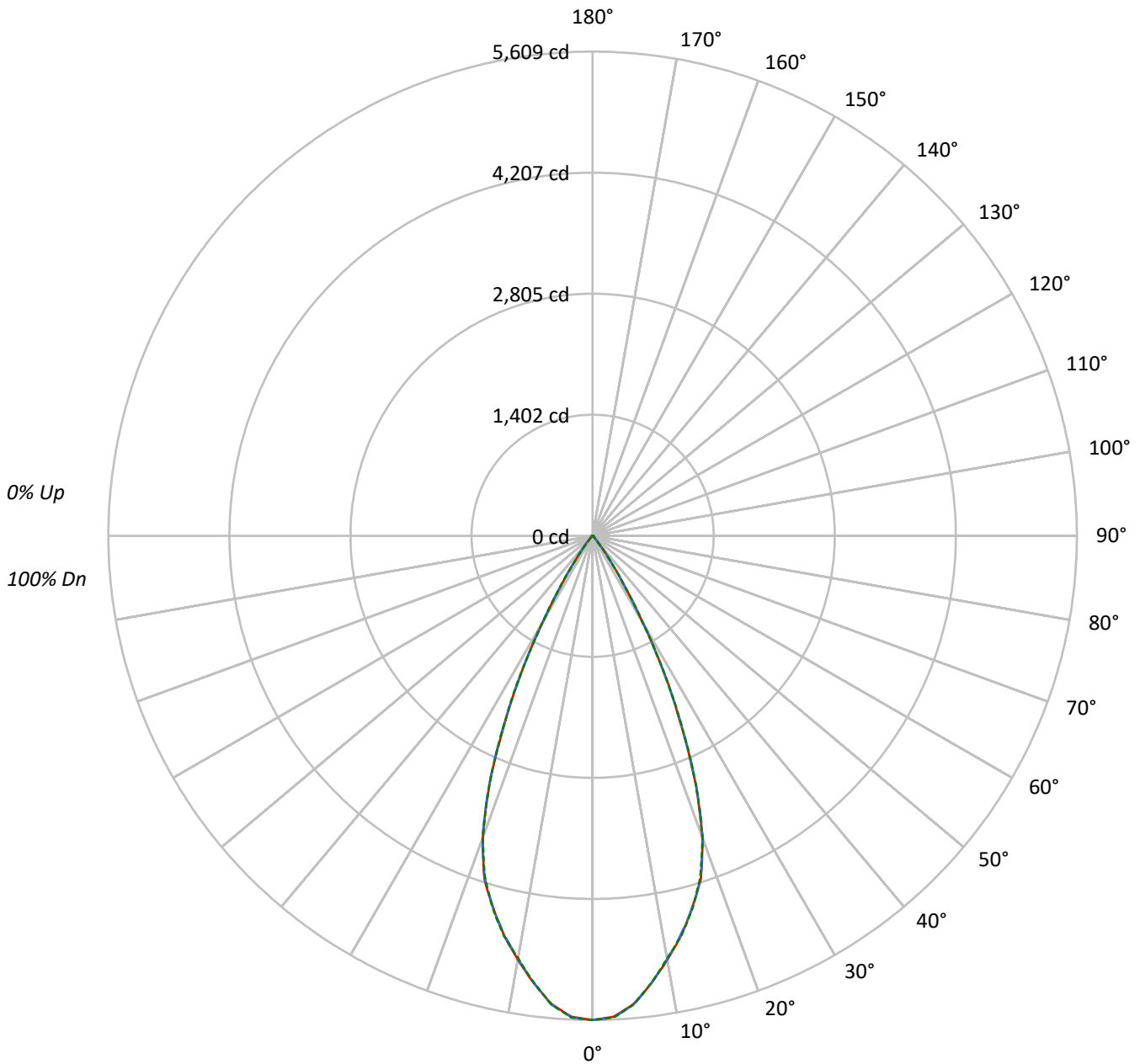
Lumens per Lamp: N/A
Luminaire Lumens: 3166.0 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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°	448720	448720	448720
5°	437376	437954	437705
10°	404976	404391	403717
15°	369138	369568	370082
20°	316639	317610	316375
25°	214629	217286	216915
30°	106325	106999	106611
35°	35510	35715	33596
40°	8114	7895	6819
45°	3168	3519	2930
50°	2576	2713	2315
55°	2315	2315	2022
60°	1824	1984	1664
65°	1174	1382	984
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°	504.9	15.9
10°-20°	1237.8	39.1
20°-30°	1101.9	34.8
30°-40°	275.1	8.7
40°-50°	26.2	0.8
50°-60°	14.3	0.5
60°-70°	5.7	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°	2844.6	89.8
0°-40°	3119.7	98.5
0°-60°	3160.2	99.8
0°-90°	3166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3166.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5609	5609	5609	5609	5609	
5°	5446	5466	5454	5450	5450	504
15°	4457	4480	4462	4454	4468	1238
25°	2432	2458	2462	2478	2457	1098
35°	364	377	366	360	344	274
45°	28	28	31	27	26	27
55°	17	17	17	16	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°	5609.0	5609.0	5609.0	5609.0	5609.0
2.5°	5576.9	5601.8	5584.2	5585.2	5586.2
5°	5446.4	5466.1	5453.6	5449.5	5450.5
7.5°	5225.7	5243.3	5223.6	5230.9	5222.6
10°	4985.3	5003.0	4978.1	4978.1	4969.8
12.5°	4740.8	4759.5	4729.4	4726.3	4746.0
15°	4457.0	4479.8	4462.2	4453.9	4468.4
17.5°	4170.0	4166.9	4156.5	4151.3	4146.2
20°	3719.3	3738.0	3730.7	3699.6	3716.2
22.5°	3126.7	3127.8	3138.1	3143.3	3129.8
25°	2431.5	2458.5	2461.6	2478.2	2457.4
27.5°	1801.6	1806.8	1778.9	1780.9	1800.6
30°	1151.0	1166.6	1158.3	1166.6	1154.1
32.5°	664.1	677.6	672.4	678.6	679.6
35°	363.6	377.1	365.7	360.5	344.0
37.5°	180.3	180.3	184.4	169.9	161.6
40°	77.7	79.8	75.6	71.5	65.3
42.5°	39.4	39.4	41.4	35.2	34.2
45°	28.0	28.0	31.1	26.9	25.9
47.5°	23.8	23.8	25.9	22.8	21.8
50°	20.7	20.7	21.8	19.7	18.6
52.5°	18.6	18.6	19.7	17.6	16.6
55°	16.6	16.6	16.6	15.5	14.5
57.5°	13.5	14.5	14.5	13.5	12.4
60°	11.4	11.4	12.4	11.4	10.4
62.5°	9.3	9.3	9.3	9.3	8.3
65°	6.2	6.2	7.3	6.2	5.2
67.5°	1.0	2.1	5.2	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)