

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: P402058

Luminaire Tested: **LA1MR152D010 EA1M152509030MW1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402058
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 EA1M152509030MW1MW
Description: 1 INCH 50° OPTIC WITH MATTE WHITE BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

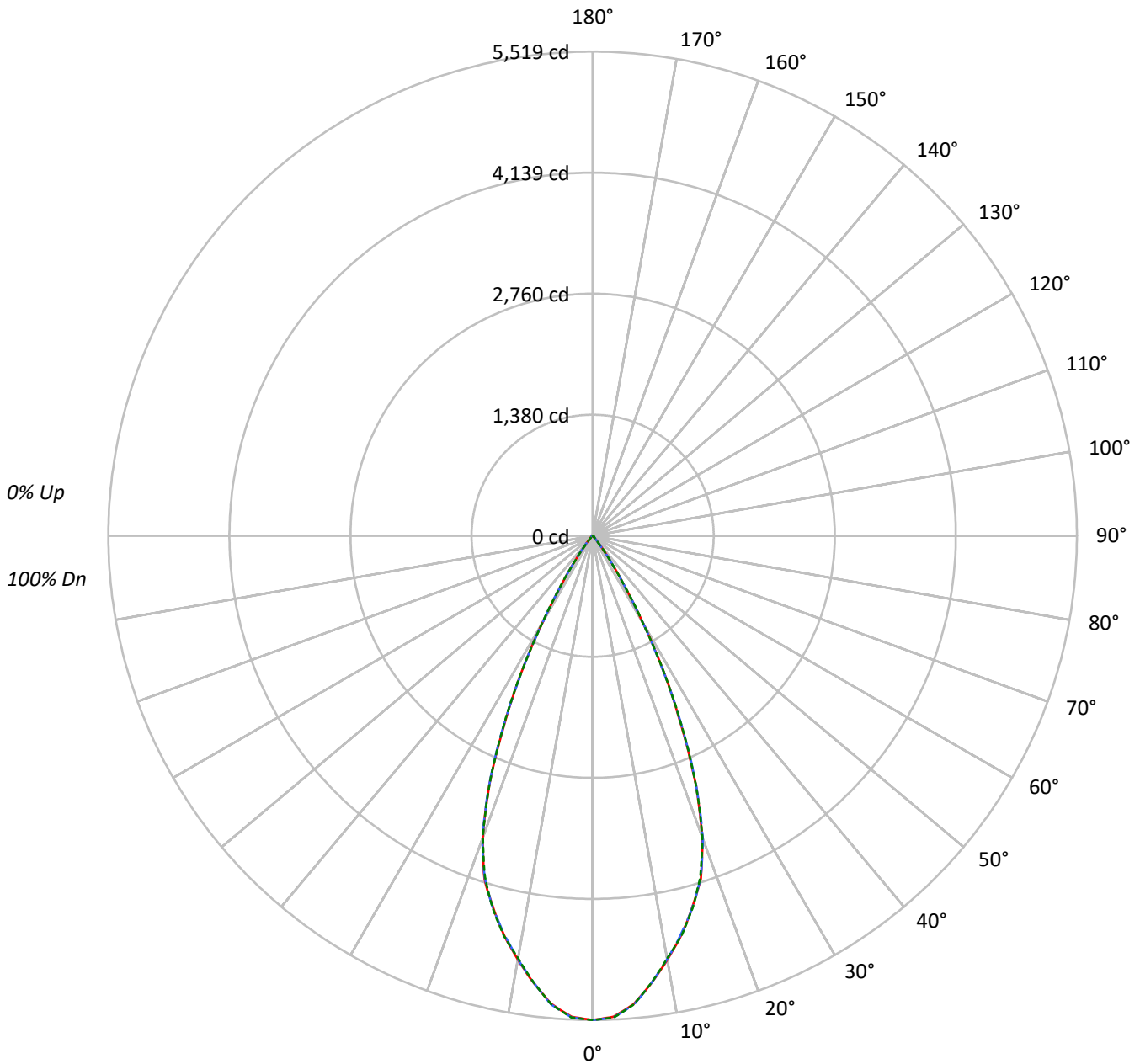
Lumens per Lamp: N/A
Luminaire Lumens: 3115.3 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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	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°	441544	441544	441544
5°	430373	430951	430703
10°	398502	397917	397259
15°	363232	363655	364160
20°	311574	312527	311319
25°	211195	213808	213446
30°	104625	105281	104911
35°	34943	35149	33059
40°	7989	7770	6705
45°	3111	3462	2885
50°	2539	2663	2290
55°	2273	2273	1995
60°	1792	1952	1632
65°	1155	1344	965
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°	496.8	15.9
10°-20°	1218.0	39.1
20°-30°	1084.3	34.8
30°-40°	270.7	8.7
40°-50°	25.8	0.8
50°-60°	14.1	0.5
60°-70°	5.6	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°	2799.1	89.8
0°-40°	3069.8	98.5
0°-60°	3109.7	99.8
0°-90°	3115.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5519	5519	5519	5519	5519	
5°	5359	5379	5366	5362	5363	496
15°	4386	4408	4391	4383	4397	1218
25°	2393	2419	2422	2438	2418	1081
35°	358	371	360	355	338	269
45°	28	28	31	26	26	26
55°	16	16	16	15	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°	5519.3	5519.3	5519.3	5519.3	5519.3
2.5°	5487.7	5512.1	5494.8	5495.8	5496.9
5°	5359.2	5378.6	5366.4	5362.3	5363.3
7.5°	5142.1	5159.4	5140.0	5147.2	5139.0
10°	4905.6	4922.9	4898.4	4898.4	4890.3
12.5°	4665.0	4683.3	4653.8	4650.7	4670.1
15°	4385.7	4408.1	4390.8	4382.6	4396.9
17.5°	4103.3	4100.2	4090.0	4084.9	4079.8
20°	3659.8	3678.2	3671.0	3640.4	3656.8
22.5°	3076.7	3077.7	3087.9	3093.0	3079.7
25°	2392.6	2419.1	2422.2	2438.5	2418.1
27.5°	1772.8	1777.9	1750.4	1752.4	1771.8
30°	1132.6	1147.9	1139.7	1147.9	1135.7
32.5°	653.5	666.7	661.6	667.7	668.8
35°	357.8	371.1	359.9	354.8	338.5
37.5°	177.4	177.4	181.5	167.2	159.0
40°	76.5	78.5	74.4	70.3	64.2
42.5°	38.7	38.7	40.8	34.7	33.6
45°	27.5	27.5	30.6	26.5	25.5
47.5°	23.4	23.4	25.5	22.4	21.4
50°	20.4	20.4	21.4	19.4	18.4
52.5°	18.4	18.4	19.4	17.3	16.3
55°	16.3	16.3	16.3	15.3	14.3
57.5°	13.3	14.3	14.3	13.3	12.2
60°	11.2	11.2	12.2	11.2	10.2
62.5°	9.2	9.2	9.2	9.2	8.2
65°	6.1	6.1	7.1	6.1	5.1
67.5°	1.0	2.0	5.1	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)