

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: P402059

Luminaire Tested: **LA1MR152D010 EA1M152509030SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402059  
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 EA1M152509030SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

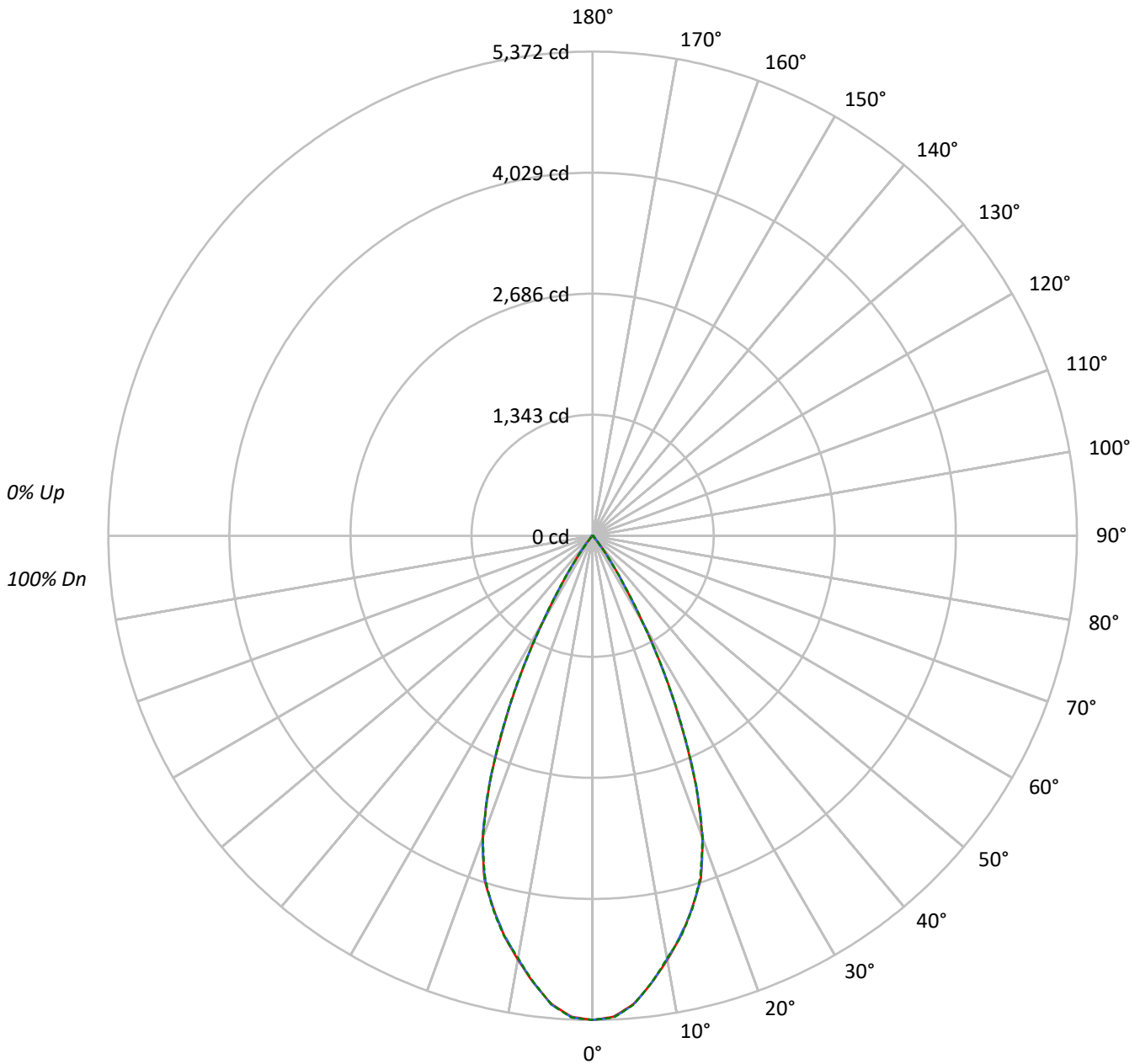
Lumens per Lamp: N/A  
Luminaire Lumens: 3032.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

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									
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			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°	429728	429728	429728
5°	418865	419420	419179
10°	387836	387275	386633
15°	353509	353923	354412
20°	303239	304167	302984
25°	205546	208088	207735
30°	101826	102473	102103
35°	34016	34201	32170
40°	7770	7561	6527
45°	3032	3371	2806
50°	2464	2589	2228
55°	2218	2218	1939
60°	1744	1904	1584
65°	1136	1306	946
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°	483.5	15.9
10°-20°	1185.4	39.1
20°-30°	1055.3	34.8
30°-40°	263.4	8.7
40°-50°	25.1	0.8
50°-60°	13.7	0.5
60°-70°	5.5	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°	2724.2	89.8
0°-40°	2987.7	98.5
0°-60°	3026.5	99.8
0°-90°	3032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5372	5372	5372	5372	5372	
5°	5216	5235	5223	5219	5220	483
15°	4268	4290	4273	4265	4279	1186
25°	2329	2354	2357	2373	2353	1052
35°	348	361	350	345	329	262
45°	27	27	30	26	25	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°	5371.6	5371.6	5371.6	5371.6	5371.6
2.5°	5340.9	5364.7	5347.8	5348.8	5349.8
5°	5215.9	5234.7	5222.8	5218.8	5219.8
7.5°	5004.5	5021.4	5002.5	5009.5	5001.5
10°	4774.3	4791.2	4767.4	4767.4	4759.5
12.5°	4540.2	4558.0	4529.3	4526.3	4545.1
15°	4268.3	4290.2	4273.3	4265.4	4279.2
17.5°	3993.5	3990.5	3980.6	3975.6	3970.7
20°	3561.9	3579.8	3572.8	3543.1	3558.9
22.5°	2994.4	2995.4	3005.3	3010.3	2997.4
25°	2328.6	2354.4	2357.4	2373.3	2353.4
27.5°	1725.4	1730.4	1703.6	1705.5	1724.4
30°	1102.3	1117.2	1109.3	1117.2	1105.3
32.5°	636.0	648.9	643.9	649.9	650.9
35°	348.3	361.2	350.2	345.3	329.4
37.5°	172.6	172.6	176.6	162.7	154.8
40°	74.4	76.4	72.4	68.5	62.5
42.5°	37.7	37.7	39.7	33.7	32.7
45°	26.8	26.8	29.8	25.8	24.8
47.5°	22.8	22.8	24.8	21.8	20.8
50°	19.8	19.8	20.8	18.9	17.9
52.5°	17.9	17.9	18.9	16.9	15.9
55°	15.9	15.9	15.9	14.9	13.9
57.5°	12.9	13.9	13.9	12.9	11.9
60°	10.9	10.9	11.9	10.9	9.9
62.5°	8.9	8.9	8.9	8.9	7.9
65°	6.0	6.0	6.9	6.0	5.0
67.5°	1.0	2.0	5.0	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)