

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: P402095

Luminaire Tested: **LA1MR022D010 EA1M22509035SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402095  
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: LA1MR022D010 EA1M22509035SB1MW  
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

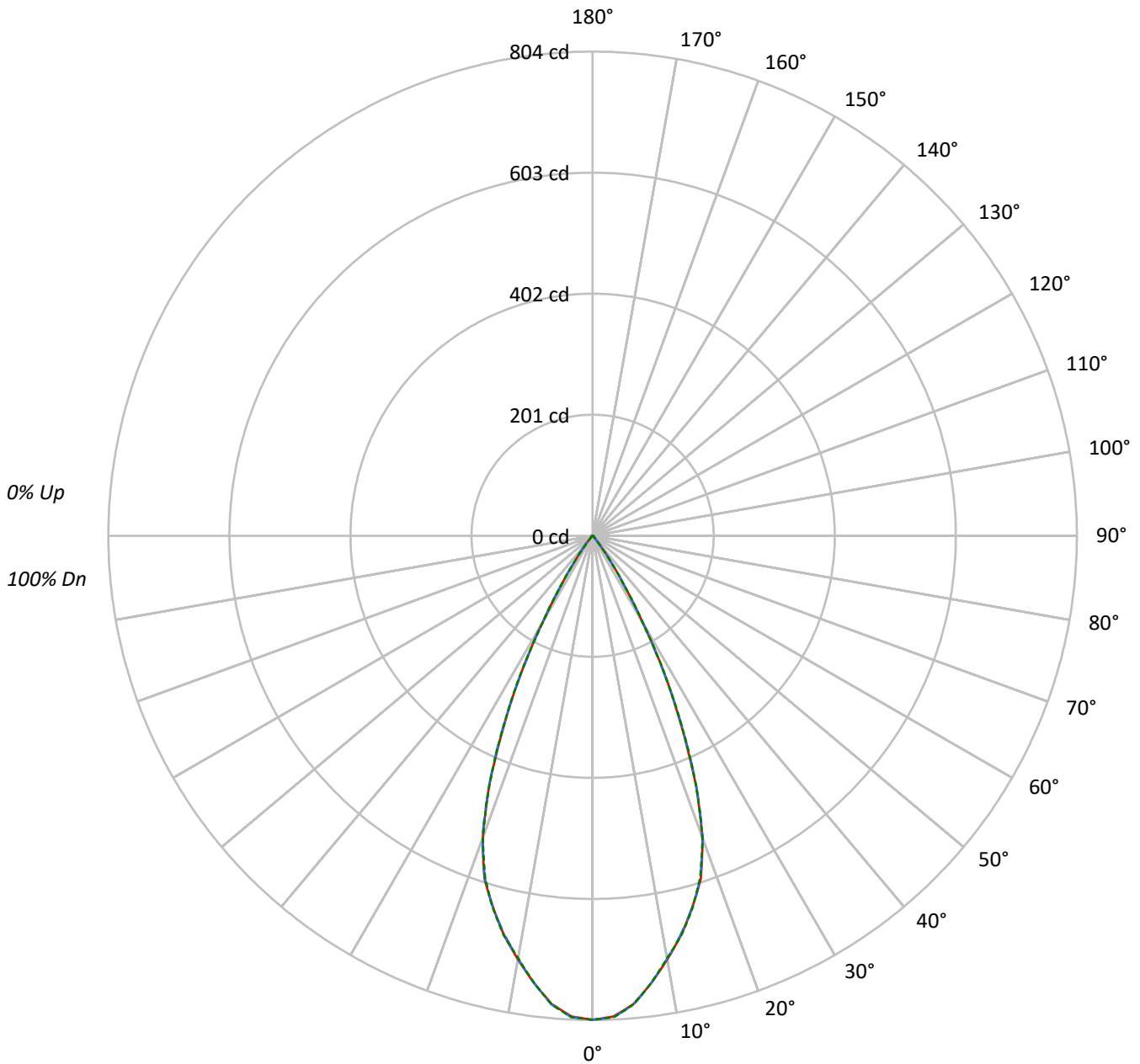
Lumens per Lamp: N/A  
Luminaire Lumens: 453.6 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71  
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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°	64288	64288	64288
5°	62662	62751	62711
10°	58025	57936	57839
15°	52890	52948	53023
20°	45368	45504	45325
25°	30753	31133	31080
30°	15233	15325	15279
35°	5088	5117	4815
40°	1159	1128	982
45°	453	509	419
50°	373	386	336
55°	335	335	293
60°	256	288	240
65°	170	189	133
70°	0	23	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	15.9
10°-20°	177.3	39.1
20°-30°	157.9	34.8
30°-40°	39.4	8.7
40°-50°	3.7	0.8
50°-60°	2.1	0.5
60°-70°	0.8	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°	407.6	89.9
0°-40°	447.0	98.5
0°-60°	452.8	99.8
0°-90°	453.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	453.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	780	783	781	781	781	72
15°	639	642	639	638	640	177
25°	348	352	353	355	352	157
35°	52	54	52	52	49	39
45°	4	4	4	4	4	4
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	803.6	803.6	803.6	803.6	803.6
2.5°	799.0	802.6	800.1	800.2	800.4
5°	780.3	783.1	781.4	780.8	780.9
7.5°	748.7	751.2	748.4	749.4	748.3
10°	714.3	716.8	713.2	713.2	712.0
12.5°	679.2	681.9	677.6	677.2	680.0
15°	638.6	641.8	639.3	638.1	640.2
17.5°	597.4	597.0	595.5	594.8	594.0
20°	532.9	535.5	534.5	530.1	532.4
22.5°	448.0	448.1	449.6	450.3	448.4
25°	348.4	352.2	352.7	355.1	352.1
27.5°	258.1	258.9	254.9	255.2	258.0
30°	164.9	167.1	165.9	167.1	165.4
32.5°	95.1	97.1	96.3	97.2	97.4
35°	52.1	54.0	52.4	51.7	49.3
37.5°	25.8	25.8	26.4	24.3	23.2
40°	11.1	11.4	10.8	10.2	9.4
42.5°	5.6	5.6	5.9	5.0	4.9
45°	4.0	4.0	4.5	3.9	3.7
47.5°	3.4	3.4	3.7	3.3	3.1
50°	3.0	3.0	3.1	2.8	2.7
52.5°	2.7	2.7	2.8	2.5	2.4
55°	2.4	2.4	2.4	2.2	2.1
57.5°	1.9	2.1	2.1	1.9	1.8
60°	1.6	1.6	1.8	1.6	1.5
62.5°	1.3	1.3	1.3	1.3	1.2
65°	0.9	0.9	1.0	0.9	0.7
67.5°	0.1	0.3	0.7	0.0	0.0
70°	0.0	0.0	0.1	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)