

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: P402088

Luminaire Tested: **LA1MR022D010 EA1M22509027SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402088
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 EA1M22509027SC1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

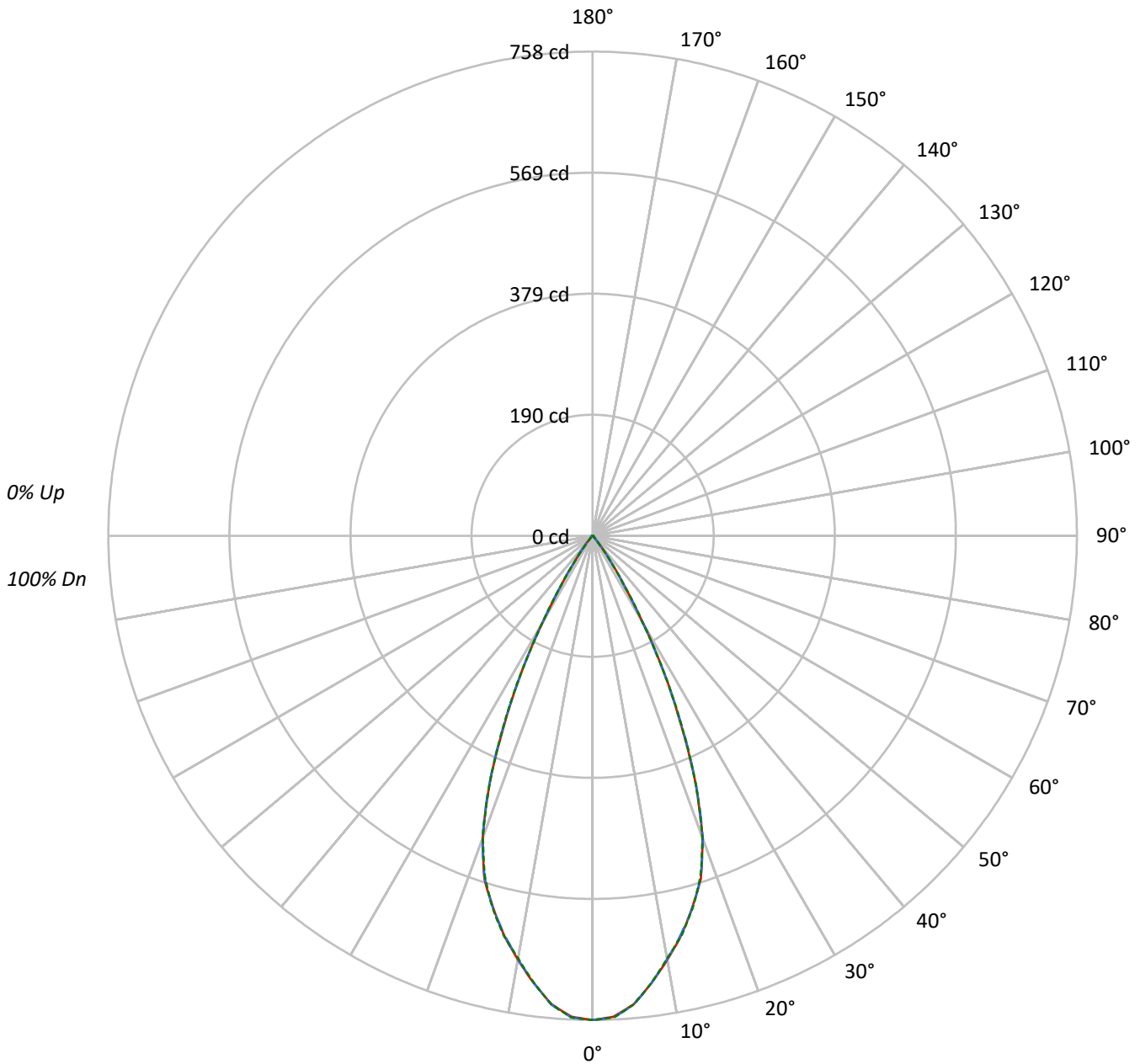
Lumens per Lamp: N/A
Luminaire Lumens: 427.9 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90																			
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73																			
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70																			
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67																			
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	60648	60648	60648
5°	59113	59193	59161
10°	54735	54654	54565
15°	49892	49950	50016
20°	42797	42925	42763
25°	29006	29367	29315
30°	14374	14457	14411
35°	4795	4824	4541
40°	1097	1065	919
45°	430	475	396
50°	348	361	311
55°	307	307	279
60°	240	272	224
65°	151	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°	68.2	15.9
10°-20°	167.3	39.1
20°-30°	148.9	34.8
30°-40°	37.2	8.7
40°-50°	3.5	0.8
50°-60°	1.9	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°	384.5	89.9
0°-40°	421.6	98.5
0°-60°	427.1	99.8
0°-90°	427.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	736	739	737	736	737	68
15°	602	606	603	602	604	167
25°	329	332	333	335	332	148
35°	49	51	49	49	46	37
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.1	758.1	758.1	758.1	758.1
2.5°	753.7	757.1	754.7	754.9	755.0
5°	736.1	738.8	737.1	736.5	736.7
7.5°	706.3	708.7	706.0	707.0	705.9
10°	673.8	676.2	672.8	672.8	671.7
12.5°	640.7	643.3	639.2	638.8	641.4
15°	602.4	605.5	603.1	602.0	603.9
17.5°	563.6	563.2	561.8	561.1	560.4
20°	502.7	505.2	504.2	500.0	502.3
22.5°	422.6	422.7	424.1	424.8	423.0
25°	328.6	332.3	332.7	334.9	332.1
27.5°	243.5	244.2	240.4	240.7	243.4
30°	155.6	157.7	156.5	157.7	156.0
32.5°	89.8	91.6	90.9	91.7	91.9
35°	49.1	51.0	49.4	48.7	46.5
37.5°	24.4	24.4	24.9	23.0	21.8
40°	10.5	10.8	10.2	9.7	8.8
42.5°	5.3	5.3	5.6	4.8	4.6
45°	3.8	3.8	4.2	3.6	3.5
47.5°	3.2	3.2	3.5	3.1	2.9
50°	2.8	2.8	2.9	2.7	2.5
52.5°	2.5	2.5	2.7	2.4	2.2
55°	2.2	2.2	2.2	2.1	2.0
57.5°	1.8	2.0	2.0	1.8	1.7
60°	1.5	1.5	1.7	1.5	1.4
62.5°	1.3	1.3	1.3	1.3	1.1
65°	0.8	0.8	1.0	0.8	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)