

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: P402067

Luminaire Tested: **LA1MR152D010 EA1M152509040SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402067
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 EA1M152509040SB1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

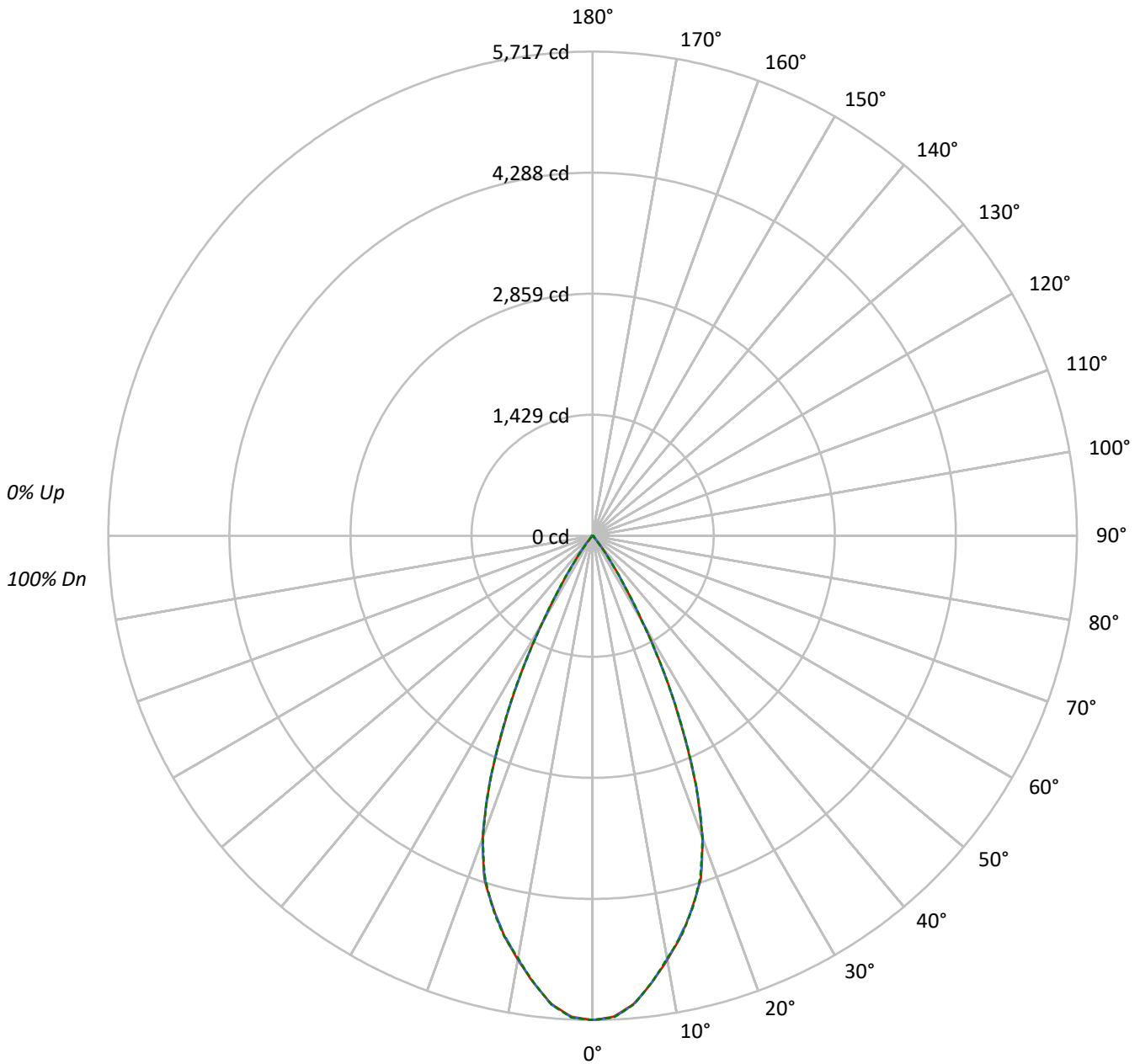
Lumens per Lamp: N/A
Luminaire Lumens: 3227.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85	85	85	85
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81	81	81	81
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73	73	73	73
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70	70	70	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	67	67
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64	64	64	64
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	457368	457368	457368
5°	445800	446394	446137
10°	412783	412182	411499
15°	376244	376683	377213
20°	322744	323731	322471
25°	218769	221470	221099
30°	108375	109059	108671
35°	36203	36408	34240
40°	8271	8052	6945
45°	3224	3586	2987
50°	2626	2763	2365
55°	2357	2357	2064
60°	1856	2032	1696
65°	1193	1401	1003
70°	0	257	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.6	15.9
10°-20°	1261.6	39.1
20°-30°	1123.2	34.8
30°-40°	280.4	8.7
40°-50°	26.7	0.8
50°-60°	14.6	0.5
60°-70°	5.8	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°	2899.4	89.8
0°-40°	3179.8	98.5
0°-60°	3221.1	99.8
0°-90°	3227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5717	5717	5717	5717	5717	
5°	5551	5571	5559	5554	5556	514
15°	4543	4566	4548	4540	4554	1262
25°	2478	2506	2509	2526	2505	1119
35°	371	384	373	368	351	279
45°	28	28	32	28	26	27
55°	17	17	17	16	15	15
65°	6	6	7	6	5	6
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°	5717.1	5717.1	5717.1	5717.1	5717.1
2.5°	5684.4	5709.7	5691.8	5692.8	5693.9
5°	5551.3	5571.4	5558.7	5554.5	5555.5
7.5°	5326.4	5344.3	5324.3	5331.7	5323.2
10°	5081.4	5099.4	5074.0	5074.0	5065.6
12.5°	4832.2	4851.2	4820.6	4817.4	4837.5
15°	4542.8	4566.1	4548.1	4539.7	4554.5
17.5°	4250.3	4247.2	4236.6	4231.3	4226.1
20°	3791.0	3810.0	3802.6	3770.9	3787.8
22.5°	3187.0	3188.0	3198.6	3203.9	3190.1
25°	2478.4	2505.9	2509.0	2525.9	2504.8
27.5°	1836.4	1841.6	1813.1	1815.2	1835.3
30°	1173.2	1189.0	1180.6	1189.0	1176.4
32.5°	676.9	690.6	685.3	691.7	692.7
35°	370.7	384.4	372.8	367.5	350.6
37.5°	183.7	183.7	188.0	173.2	164.7
40°	79.2	81.3	77.1	72.9	66.5
42.5°	40.1	40.1	42.2	35.9	34.8
45°	28.5	28.5	31.7	27.5	26.4
47.5°	24.3	24.3	26.4	23.2	22.2
50°	21.1	21.1	22.2	20.1	19.0
52.5°	19.0	19.0	20.1	18.0	16.9
55°	16.9	16.9	16.9	15.8	14.8
57.5°	13.7	14.8	14.8	13.7	12.7
60°	11.6	11.6	12.7	11.6	10.6
62.5°	9.5	9.5	9.5	9.5	8.4
65°	6.3	6.3	7.4	6.3	5.3
67.5°	1.1	2.1	5.3	0.0	0.0
70°	0.0	0.0	1.1	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)