

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: P402037

Luminaire Tested: **LA1MR152D010 EA1M152309027MMS1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2005-766-2)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR152D010 EA1M152309027MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

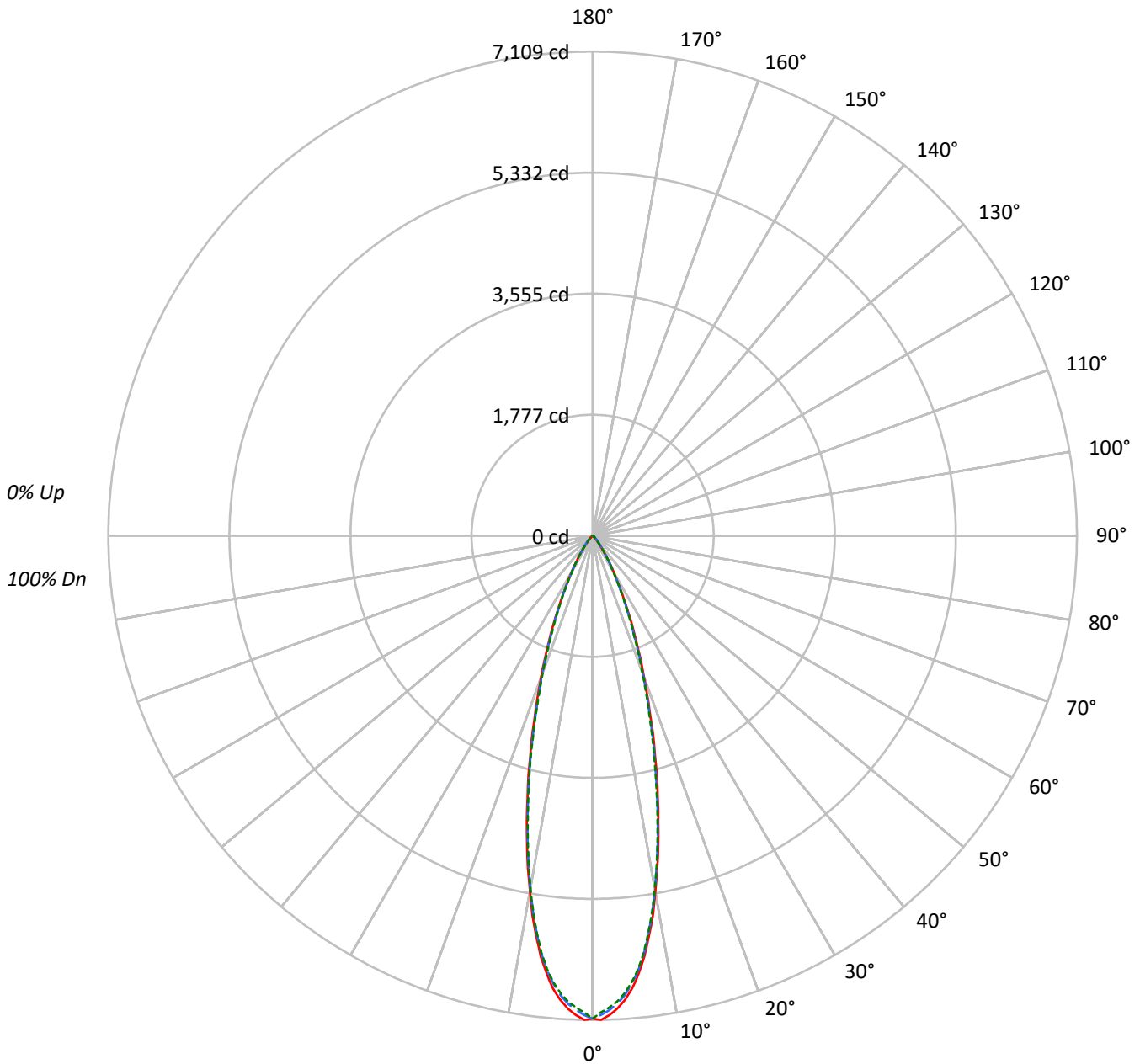
Lumens per Lamp: N/A
Luminaire Lumens: 2416.6 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2197943	2197943	2197943
5°	2076544	2055383	2048661
10°	1669740	1657118	1655166
15°	1167988	1148154	1143179
20°	728709	710367	702219
25°	421644	408954	403652
30°	224476	217854	213415
35°	107553	111073	108726
40°	45000	61268	46255
45°	23016	37922	24376
50°	14902	22329	16397
55°	9999	15025	11674
60°	5766	9548	7688
65°	2274	6822	2274
70°	0	2810	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.8	24.4
10°-20°	982.7	40.7
20°-30°	565.3	23.4
30°-40°	196.7	8.1
40°-50°	55.8	2.3
50°-60°	21.4	0.9
60°-70°	5.8	0.2
70°-80°	0.1	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°	2136.8	88.4
0°-40°	2333.5	96.6
0°-60°	2410.6	99.8
0°-90°	2416.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2416.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7090	7090	7090	7090	7090	
5°	6673	6633	6605	6617	6583	593
15°	3639	3624	3578	3568	3562	993
25°	1233	1217	1196	1189	1180	578
35°	284	297	294	294	287	192
45°	52	62	86	62	56	45
55°	18	22	28	22	22	17
65°	3	6	9	6	3	3
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°	7090.1	7090.1	7090.1	7090.1	7090.1
1°	7108.6	7074.6	7037.5	7037.5	7000.5
2°	7040.6	7009.7	6969.6	6972.7	6932.5
3°	6951.0	6920.2	6880.0	6886.2	6849.1
4°	6827.5	6787.3	6759.5	6768.8	6734.8
5°	6673.0	6632.8	6605.0	6617.4	6583.4
6°	6462.9	6435.1	6410.4	6425.9	6395.0
7°	6228.1	6197.2	6178.7	6191.1	6166.4
8°	5940.8	5919.2	5897.6	5909.9	5885.2
9°	5647.3	5613.4	5591.7	5601.0	5582.5
10°	5304.4	5289.0	5264.3	5273.5	5258.1
11°	4973.9	4973.9	4927.5	4912.1	4921.3
12°	4634.0	4630.9	4587.7	4569.2	4575.3
13°	4291.1	4288.0	4244.8	4229.3	4232.4
14°	3951.3	3954.4	3908.0	3895.7	3892.6
15°	3639.3	3623.8	3577.5	3568.2	3562.0
16°	3311.8	3308.7	3262.4	3250.0	3243.8
17°	3018.3	3002.9	2956.5	2944.2	2934.9
18°	2712.5	2715.5	2669.2	2659.9	2644.5
19°	2452.9	2446.8	2403.5	2394.2	2378.8
20°	2208.9	2181.1	2153.3	2144.0	2128.6
22.5°	1665.2	1649.7	1612.6	1603.4	1600.3
25°	1232.7	1217.2	1195.6	1189.4	1180.1
26°	1078.2	1081.3	1053.5	1047.3	1041.1
27°	954.6	948.4	923.7	920.6	911.4
28°	821.8	827.9	800.1	797.1	790.9
29°	716.7	716.7	701.3	692.0	685.8
30°	627.1	624.0	608.6	602.4	596.2
32.5°	432.5	429.4	423.2	420.2	414.0
35°	284.2	296.6	293.5	293.5	287.3
37.5°	176.1	200.8	210.1	207.0	188.5
40°	111.2	129.8	151.4	139.0	114.3
42.5°	74.1	89.6	111.2	92.7	74.1
45°	52.5	61.8	86.5	61.8	55.6
47.5°	40.2	46.3	64.9	46.3	40.2
50°	30.9	37.1	46.3	37.1	34.0
52.5°	24.7	27.8	37.1	27.8	24.7
55°	18.5	21.6	27.8	21.6	21.6
57.5°	15.4	18.5	21.6	18.5	15.4
60°	9.3	12.4	15.4	12.4	12.4
62.5°	6.2	9.3	12.4	9.3	6.2
65°	3.1	6.2	9.3	6.2	3.1
67.5°	0.0	3.1	3.1	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
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°







70°	0.0	0.0	3.1	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)