

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: P402041

Luminaire Tested: **LA1MR152D010 EA1M152309030MMS1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402041
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 EA1M152309030MMS1MW
Description: 1 INCH 30° OPTIC WITH MATTE METALIC SILVER BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

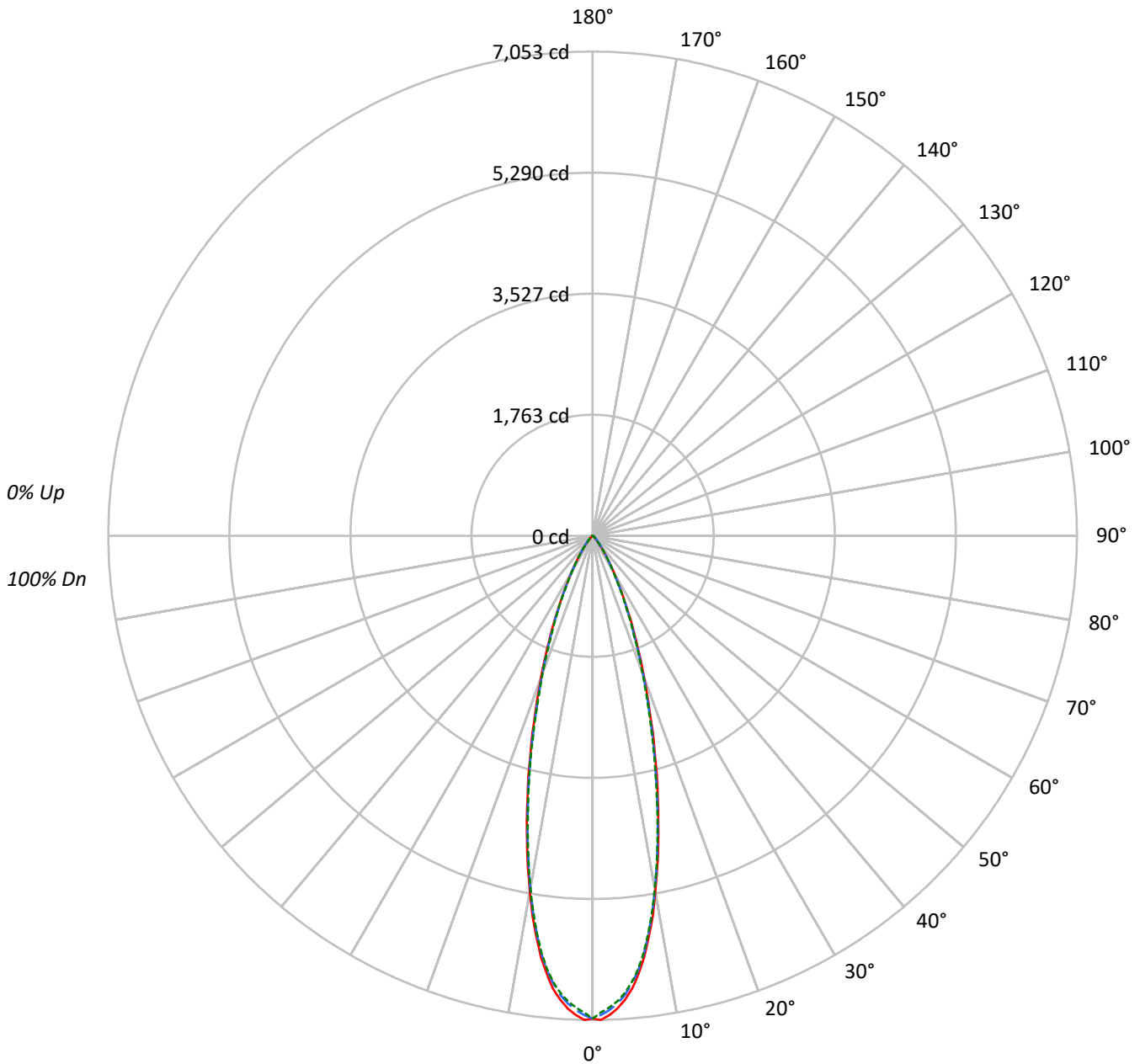
Lumens per Lamp: N/A
Luminaire Lumens: 2397.6 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P402041

CATALOG NUMBER: LA1MR152D010 EA1M152309030MMS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P402041

CATALOG NUMBER: LA1MR152D010 EA1M152309030MMS1MW

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°	2180676	2180676	2180676
5°	2060237	2039263	2032573
10°	1656645	1644085	1642165
15°	1158809	1139135	1134225
20°	722969	704792	696676
25°	418326	405739	400505
30°	222722	216136	211769
35°	106721	110202	107894
40°	44636	60783	45891
45°	22841	37615	24200
50°	14806	22185	16253
55°	9945	14917	11620
60°	5704	9486	7626
65°	2274	6748	2274
70°	0	2810	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402041

CATALOG NUMBER: LA1MR152D010 EA1M152309030MMS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.1	24.4
10°-20°	975.0	40.7
20°-30°	560.9	23.4
30°-40°	195.1	8.1
40°-50°	55.3	2.3
50°-60°	21.2	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°	2120.0	88.4
0°-40°	2315.2	96.6
0°-60°	2391.7	99.8
0°-90°	2397.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2397.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7034	7034	7034	7034	7034	
5°	6621	6581	6553	6565	6532	588
15°	3611	3595	3549	3540	3534	986
25°	1223	1208	1186	1180	1171	574
35°	282	294	291	291	285	190
45°	52	61	86	61	55	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



TEST NUMBER: P402041

CATALOG NUMBER: LA1MR152D010 EA1M152309030MMS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7034.4	7034.4	7034.4	7034.4	7034.4
1°	7052.8	7019.1	6982.3	6982.3	6945.5
2°	6985.3	6954.7	6914.8	6917.9	6878.1
3°	6896.5	6865.8	6826.0	6832.1	6795.3
4°	6773.9	6734.0	6706.4	6715.6	6681.9
5°	6620.6	6580.8	6553.2	6565.4	6531.7
6°	6412.2	6384.6	6360.1	6375.4	6344.7
7°	6179.2	6148.6	6130.2	6142.4	6117.9
8°	5894.2	5872.7	5851.3	5863.5	5839.0
9°	5603.0	5569.3	5547.8	5557.0	5538.6
10°	5262.8	5247.4	5222.9	5232.1	5216.8
11°	4934.8	4934.8	4888.8	4873.5	4882.7
12°	4597.6	4594.6	4551.7	4533.3	4539.4
13°	4257.4	4254.3	4211.4	4196.1	4199.2
14°	3920.3	3923.3	3877.3	3865.1	3862.0
15°	3610.7	3595.4	3549.4	3540.2	3534.1
16°	3285.8	3282.7	3236.7	3224.5	3218.3
17°	2994.6	2979.3	2933.3	2921.0	2911.8
18°	2691.2	2694.2	2648.2	2639.0	2623.7
19°	2433.7	2427.6	2384.6	2375.4	2360.1
20°	2191.5	2164.0	2136.4	2127.2	2111.8
22.5°	1652.1	1636.8	1600.0	1590.8	1587.7
25°	1223.0	1207.6	1186.2	1180.1	1170.9
26°	1069.7	1072.8	1045.2	1039.1	1032.9
27°	947.1	941.0	916.5	913.4	904.2
28°	815.3	821.4	793.9	790.8	784.7
29°	711.1	711.1	695.8	686.6	680.5
30°	622.2	619.1	603.8	597.7	591.6
32.5°	429.1	426.0	419.9	416.9	410.7
35°	282.0	294.2	291.2	291.2	285.1
37.5°	174.7	199.2	208.4	205.4	187.0
40°	110.3	128.7	150.2	137.9	113.4
42.5°	73.6	88.9	110.3	92.0	73.6
45°	52.1	61.3	85.8	61.3	55.2
47.5°	39.8	46.0	64.4	46.0	39.8
50°	30.7	36.8	46.0	36.8	33.7
52.5°	24.5	27.6	36.8	27.6	24.5
55°	18.4	21.5	27.6	21.5	21.5
57.5°	15.3	18.4	21.5	18.4	15.3
60°	9.2	12.3	15.3	12.3	12.3
62.5°	6.1	9.2	12.3	9.2	6.1
65°	3.1	6.1	9.2	6.1	3.1
67.5°	0.0	3.1	3.1	0.0	0.0



TEST NUMBER: P402041

CATALOG NUMBER: LA1MR152D010 EA1M152309030MMS1MW

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



Report Generated By E9808895 / USPTCWHP6082093





— 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)