

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: P401991

Luminaire Tested: **LA1MR102D010 EA1M102WW9027SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-16)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LA1MR102D010 EA1M102WW9027SB1MW
Description: 1 INCH WW OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

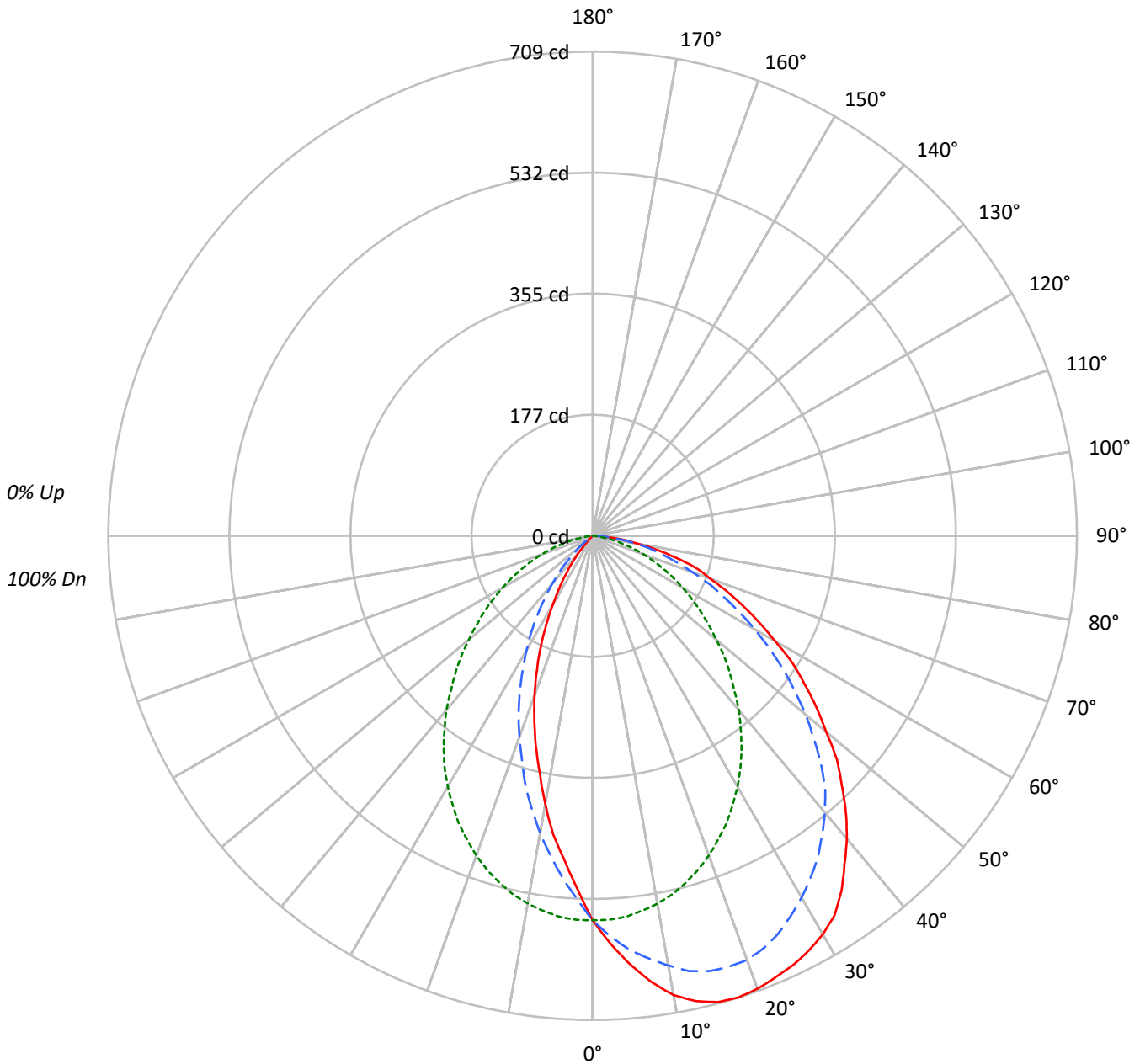
Lumens per Lamp: N/A
Luminaire Lumens: 1176.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 23.5
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								
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86								
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74								
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64								
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55								
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49								
6	73	61	53	46	72	60	52	46	58	51	46	57	50	46	55	49	45	43								
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39								
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35								
9	60	47	39	34	59	47	39	34	45	39	34	44	38	34	43	38	33	32								
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	66476	66476	66476
5°	74672	66374	56428
10°	81891	65583	47847
15°	86426	64309	39124
20°	88713	62586	31167
25°	90418	60461	23455
30°	91896	57819	15955
35°	91532	54784	9659
40°	89245	51336	3854
45°	86178	47431	334
50°	81941	43359	0
55°	78033	39737	0
60°	72747	35901	0
65°	67903	31856	0
70°	63188	27278	0
75°	58861	21445	0
80°	45566	12922	0
85°	29810	1355	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	4.5
10°-20°	145.8	12.4
20°-30°	206.3	17.5
30°-40°	225.9	19.2
40°-50°	205.6	17.5
50°-60°	162.6	13.8
60°-70°	109.1	9.3
70°-80°	56.3	4.8
80°-90°	11.7	1.0
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°	404.8	34.4
0°-40°	630.7	53.6
0°-60°	998.9	84.9
0°-90°	1176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	563	563	563	563	563	
5°	630	608	560	503	476	62
15°	707	660	526	379	320	199
25°	694	643	464	252	180	320
35°	635	575	380	139	67	396
45°	516	473	284	52	2	398
55°	379	340	193	1	0	339
65°	243	212	114	0	0	242
75°	129	105	47	0	0	135
85°	22	21	1	0	0	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9	562.9
2.5°	597.9	595.9	586.9	577.9	562.9	547.9	531.9	524.0	517.0
5°	629.9	621.9	607.9	586.9	559.9	530.9	503.0	487.0	476.0
7.5°	658.9	646.9	623.9	593.9	553.9	512.0	472.0	450.0	441.0
10°	682.9	669.9	638.9	597.9	546.9	490.0	442.0	411.0	399.0
12.5°	697.9	685.9	652.9	599.9	537.9	468.0	410.0	372.0	357.0
15°	706.9	693.9	659.9	599.9	526.0	445.0	379.0	333.0	320.0
17.5°	708.9	696.9	661.9	596.9	513.0	422.0	344.0	299.0	284.0
20°	705.9	693.9	660.9	591.9	498.0	398.0	313.0	264.0	248.0
22.5°	699.9	686.9	653.9	585.9	481.0	373.0	283.0	228.0	213.0
25°	693.9	677.9	642.9	575.9	464.0	346.0	252.0	197.0	180.0
27.5°	684.9	667.9	627.9	561.9	444.0	319.0	222.0	165.0	147.0
30°	673.9	655.9	611.9	544.9	424.0	293.0	193.0	136.0	117.0
32.5°	658.9	641.9	593.9	527.0	403.0	266.0	167.0	110.0	90.0
35°	634.9	623.9	574.9	505.0	380.0	240.0	139.0	84.0	67.0
37.5°	605.9	595.9	551.9	481.0	356.0	216.0	114.0	62.0	47.0
40°	578.9	566.9	528.9	455.0	333.0	193.0	92.0	41.0	25.0
42.5°	548.9	536.9	504.0	427.0	307.0	167.0	71.0	24.0	11.0
45°	516.0	502.0	473.0	402.0	284.0	145.0	52.0	9.0	2.0
47.5°	485.0	473.0	439.0	374.0	261.0	124.0	34.0	1.0	0.0
50°	446.0	437.0	407.0	345.0	236.0	105.0	20.0	0.0	0.0
52.5°	413.0	403.0	373.0	319.0	214.0	86.0	8.0	0.0	0.0
55°	379.0	370.0	340.0	290.0	193.0	68.0	1.0	0.0	0.0
57.5°	347.0	335.0	307.0	262.0	172.0	52.0	0.0	0.0	0.0
60°	308.0	300.0	274.0	234.0	152.0	37.0	0.0	0.0	0.0
62.5°	275.0	268.0	242.0	207.0	133.0	23.0	0.0	0.0	0.0
65°	243.0	234.0	212.0	181.0	114.0	13.0	0.0	0.0	0.0
67.5°	213.0	205.0	185.0	155.0	96.0	4.0	0.0	0.0	0.0
70°	183.0	176.0	155.0	132.0	79.0	0.0	0.0	0.0	0.0
72.5°	161.0	150.0	129.0	106.0	62.0	0.0	0.0	0.0	0.0
75°	129.0	126.0	105.0	84.0	47.0	0.0	0.0	0.0	0.0
77.5°	99.0	94.0	85.0	64.0	32.0	0.0	0.0	0.0	0.0
80°	67.0	67.0	62.0	46.0	19.0	0.0	0.0	0.0	0.0
82.5°	46.0	43.0	40.0	29.0	8.0	0.0	0.0	0.0	0.0
85°	22.0	22.0	21.0	15.0	1.0	0.0	0.0	0.0	0.0
87.5°	5.0	6.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)