

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: P401995

Luminaire Tested: **LA1MR102D010 EA1M102WW9030SB1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P401995
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 EA1M102WW9030SB1MW
Description: 1 INCH WW OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

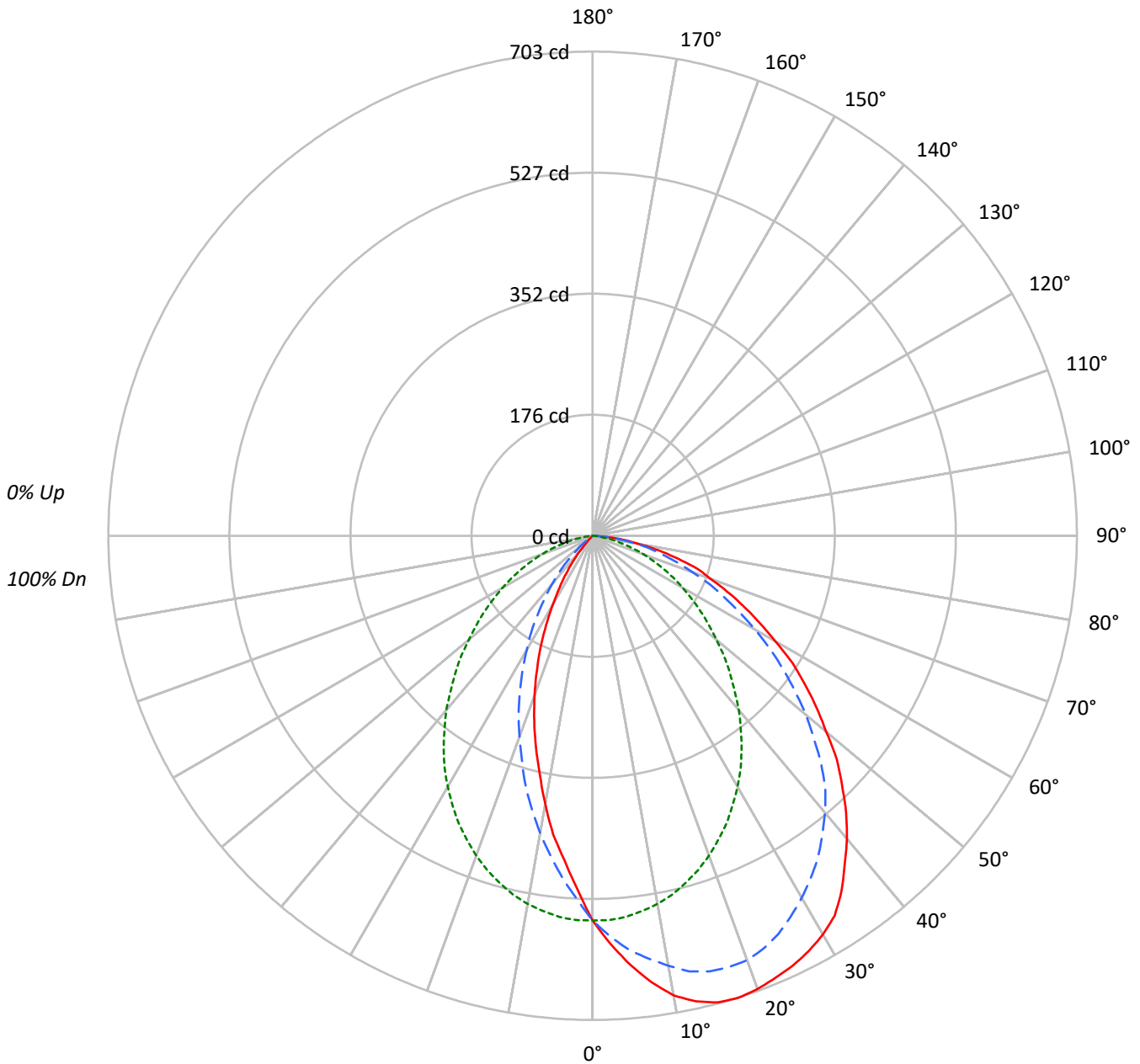
Lumens per Lamp: N/A
Luminaire Lumens: 1166.8 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')
CIE Type: Direct

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									
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	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°	65956	65956	65956
5°	74091	65852	55978
10°	81256	65079	47463
15°	85754	63796	38818
20°	88022	62083	30916
25°	89714	59979	23272
30°	91173	57355	15832
35°	90826	54351	9587
40°	88551	50935	3823
45°	85493	47047	334
50°	81298	43010	0
55°	77416	39428	0
60°	72180	35617	0
65°	67372	31604	0
70°	62670	27071	0
75°	58404	21263	0
80°	45226	12786	0
85°	29539	1355	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	4.5
10°-20°	144.7	12.4
20°-30°	204.7	17.5
30°-40°	224.2	19.2
40°-50°	203.9	17.5
50°-60°	161.3	13.8
60°-70°	108.2	9.3
70°-80°	55.9	4.8
80°-90°	11.6	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°	401.6	34.4
0°-40°	625.8	53.6
0°-60°	991.1	84.9
0°-90°	1166.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	558	558	558	558	558	
5°	625	603	556	499	472	61
15°	701	655	522	376	318	198
25°	688	638	460	250	179	317
35°	630	570	377	138	66	392
45°	512	469	282	52	2	395
55°	376	337	192	1	0	336
65°	241	210	113	0	0	240
75°	128	104	47	0	0	134
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°	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5	558.5
2.5°	593.2	591.3	582.3	573.4	558.5	543.6	527.8	519.8	512.9
5°	625.0	617.1	603.2	582.3	555.5	526.8	499.0	483.1	472.2
7.5°	653.8	641.9	619.0	589.3	549.6	507.9	468.2	446.4	437.5
10°	677.6	664.7	633.9	593.2	542.7	486.1	438.5	407.7	395.8
12.5°	692.5	680.5	647.8	595.2	533.7	464.3	406.7	369.0	354.2
15°	701.4	688.5	654.8	595.2	521.8	441.5	376.0	330.4	317.5
17.5°	703.4	691.5	656.7	592.3	508.9	418.6	341.3	296.6	281.7
20°	700.4	688.5	655.7	587.3	494.0	394.8	310.5	261.9	246.0
22.5°	694.4	681.5	648.8	581.3	477.2	370.0	280.8	226.2	211.3
25°	688.5	672.6	637.9	571.4	460.3	343.3	250.0	195.4	178.6
27.5°	679.6	662.7	623.0	557.5	440.5	316.5	220.2	163.7	145.8
30°	668.6	650.8	607.1	540.7	420.6	290.7	191.5	134.9	116.1
32.5°	653.8	636.9	589.3	522.8	399.8	263.9	165.7	109.1	89.3
35°	630.0	619.0	570.4	501.0	377.0	238.1	137.9	83.3	66.5
37.5°	601.2	591.3	547.6	477.2	353.2	214.3	113.1	61.5	46.6
40°	574.4	562.5	524.8	451.4	330.4	191.5	91.3	40.7	24.8
42.5°	544.6	532.7	500.0	423.6	304.6	165.7	70.4	23.8	10.9
45°	511.9	498.0	469.2	398.8	281.7	143.8	51.6	8.9	2.0
47.5°	481.1	469.2	435.5	371.0	258.9	123.0	33.7	1.0	0.0
50°	442.5	433.5	403.8	342.3	234.1	104.2	19.8	0.0	0.0
52.5°	409.7	399.8	370.0	316.5	212.3	85.3	7.9	0.0	0.0
55°	376.0	367.1	337.3	287.7	191.5	67.5	1.0	0.0	0.0
57.5°	344.2	332.3	304.6	259.9	170.6	51.6	0.0	0.0	0.0
60°	305.6	297.6	271.8	232.1	150.8	36.7	0.0	0.0	0.0
62.5°	272.8	265.9	240.1	205.4	131.9	22.8	0.0	0.0	0.0
65°	241.1	232.1	210.3	179.6	113.1	12.9	0.0	0.0	0.0
67.5°	211.3	203.4	183.5	153.8	95.2	4.0	0.0	0.0	0.0
70°	181.5	174.6	153.8	131.0	78.4	0.0	0.0	0.0	0.0
72.5°	159.7	148.8	128.0	105.2	61.5	0.0	0.0	0.0	0.0
75°	128.0	125.0	104.2	83.3	46.6	0.0	0.0	0.0	0.0
77.5°	98.2	93.3	84.3	63.5	31.7	0.0	0.0	0.0	0.0
80°	66.5	66.5	61.5	45.6	18.8	0.0	0.0	0.0	0.0
82.5°	45.6	42.7	39.7	28.8	7.9	0.0	0.0	0.0	0.0
85°	21.8	21.8	20.8	14.9	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)