

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: P401999

Luminaire Tested: **LA1MR102D010 EA1M102WW9035SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P401999
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 EA1M102WW9035SB1MW
Description: 1 INCH WW OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

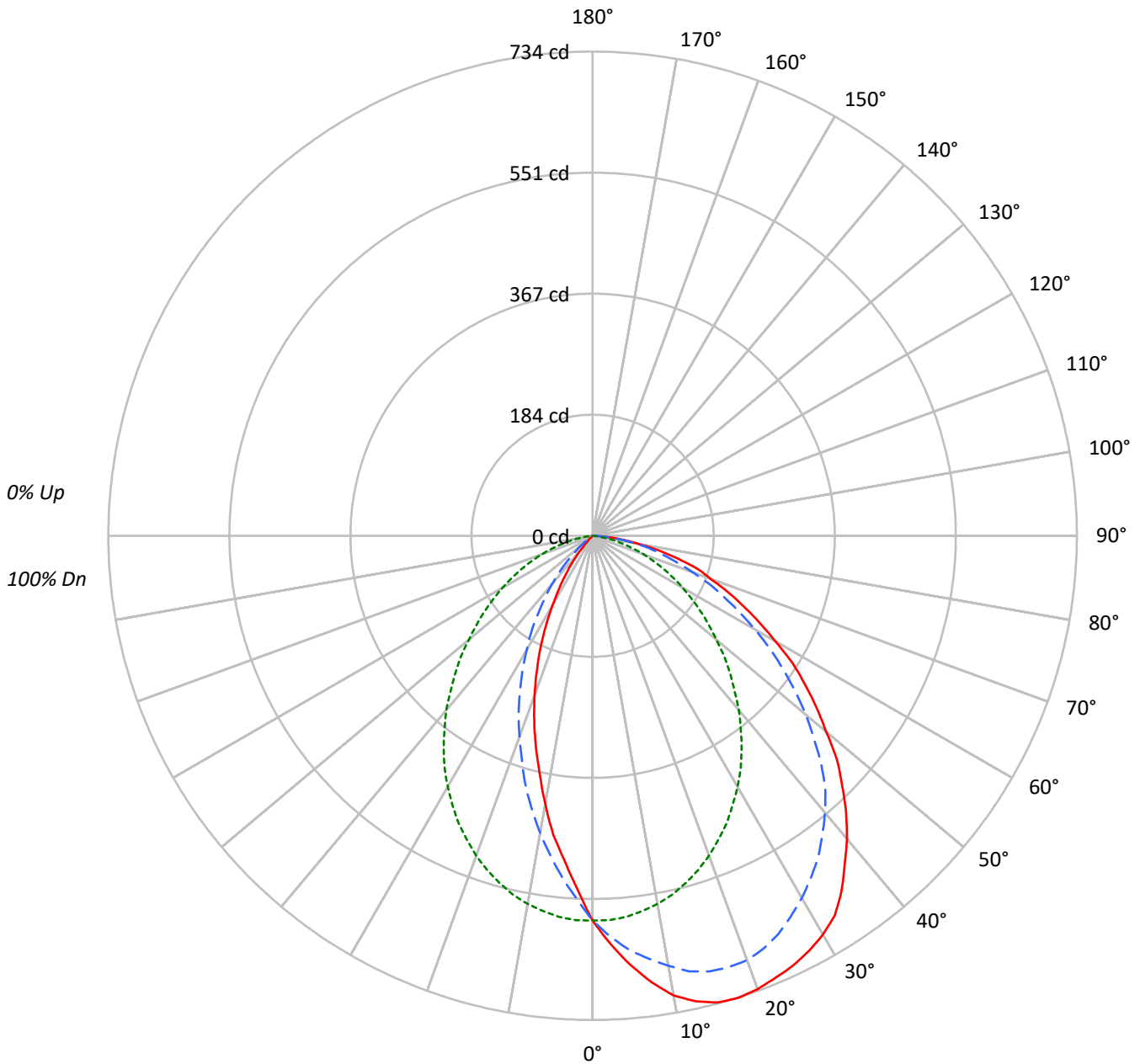
Lumens per Lamp: N/A
Luminaire Lumens: 1218.3 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.13 / 1.2
Luminous Opening: Rectangular (W 0.1' x L: 0.88' x H: 0')
CIE Type: Direct

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°	68873	68873	68873
5°	77363	68769	58455
10°	84841	67945	49562
15°	89544	66620	40530
20°	91906	64835	32286
25°	93675	62637	24302
30°	95210	59891	16527
35°	94833	56744	10005
40°	92467	53186	3993
45°	89268	49135	351
50°	84880	44920	0
55°	80833	41158	0
60°	75368	37200	0
65°	70334	33002	0
70°	65466	28244	0
75°	60960	22221	0
80°	47198	13398	0
85°	30894	1355	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	4.5
10°-20°	151.1	12.4
20°-30°	213.8	17.5
30°-40°	234.1	19.2
40°-50°	212.9	17.5
50°-60°	168.5	13.8
60°-70°	113.0	9.3
70°-80°	58.3	4.8
80°-90°	12.1	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°	419.4	34.4
0°-40°	653.4	53.6
0°-60°	1034.9	84.9
0°-90°	1218.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1218.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	583	583	583	583	583	
5°	653	630	580	521	493	64
15°	732	684	545	393	332	207
25°	719	666	481	261	186	331
35°	658	596	394	144	69	410
45°	534	490	294	54	2	412
55°	393	352	200	1	0	351
65°	252	220	118	0	0	250
75°	134	109	49	0	0	140
85°	23	22	1	0	0	30
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°	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2	583.2
2.5°	619.5	617.4	608.1	598.7	583.2	567.7	551.1	542.8	535.6
5°	652.6	644.3	629.8	608.1	580.1	550.1	521.1	504.5	493.1
7.5°	682.7	670.2	646.4	615.3	573.9	530.4	488.9	466.2	456.8
10°	707.5	694.1	661.9	619.5	566.6	507.6	457.9	425.8	413.3
12.5°	723.1	710.6	676.4	621.5	557.3	484.8	424.7	385.4	369.8
15°	732.4	718.9	683.7	621.5	544.9	461.0	392.6	345.0	331.5
17.5°	734.5	722.0	685.8	618.4	531.4	437.1	356.3	309.7	294.2
20°	731.3	718.9	684.7	613.3	515.9	412.3	324.2	273.5	256.9
22.5°	725.1	711.7	677.5	607.0	498.3	386.4	293.2	236.2	220.6
25°	718.9	702.3	666.1	596.7	480.7	358.4	261.0	204.1	186.5
27.5°	709.6	692.0	650.5	582.2	459.9	330.5	230.0	170.9	152.3
30°	698.2	679.5	634.0	564.6	439.2	303.5	199.9	140.9	121.2
32.5°	682.7	665.0	615.3	545.9	417.5	275.5	173.0	113.9	93.2
35°	657.8	646.4	595.6	523.1	393.6	248.6	144.0	87.0	69.4
37.5°	627.8	617.4	571.8	498.3	368.8	223.8	118.1	64.2	48.7
40°	599.8	587.4	548.0	471.3	345.0	199.9	95.3	42.5	25.9
42.5°	568.7	556.3	522.1	442.3	318.0	173.0	73.5	24.9	11.4
45°	534.5	520.0	490.0	416.4	294.2	150.2	53.9	9.3	2.1
47.5°	502.4	490.0	454.8	387.4	270.4	128.5	35.2	1.0	0.0
50°	462.0	452.7	421.6	357.4	244.5	108.8	20.7	0.0	0.0
52.5°	427.8	417.5	386.4	330.5	221.7	89.1	8.3	0.0	0.0
55°	392.6	383.3	352.2	300.4	199.9	70.4	1.0	0.0	0.0
57.5°	359.5	347.0	318.0	271.4	178.2	53.9	0.0	0.0	0.0
60°	319.1	310.8	283.8	242.4	157.5	38.3	0.0	0.0	0.0
62.5°	284.9	277.6	250.7	214.4	137.8	23.8	0.0	0.0	0.0
65°	251.7	242.4	219.6	187.5	118.1	13.5	0.0	0.0	0.0
67.5°	220.6	212.4	191.6	160.6	99.4	4.1	0.0	0.0	0.0
70°	189.6	182.3	160.6	136.7	81.8	0.0	0.0	0.0	0.0
72.5°	166.8	155.4	133.6	109.8	64.2	0.0	0.0	0.0	0.0
75°	133.6	130.5	108.8	87.0	48.7	0.0	0.0	0.0	0.0
77.5°	102.6	97.4	88.1	66.3	33.1	0.0	0.0	0.0	0.0
80°	69.4	69.4	64.2	47.7	19.7	0.0	0.0	0.0	0.0
82.5°	47.7	44.5	41.4	30.0	8.3	0.0	0.0	0.0	0.0
85°	22.8	22.8	21.8	15.5	1.0	0.0	0.0	0.0	0.0
87.5°	5.2	6.2	6.2	4.1	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)