

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: P402176

Luminaire Tested: **LD1MR102D010 ED1M102WW9035SC1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-15)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD1MR102D010 ED1M102WW9035SC1MW
Description: 1 INCH WW OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

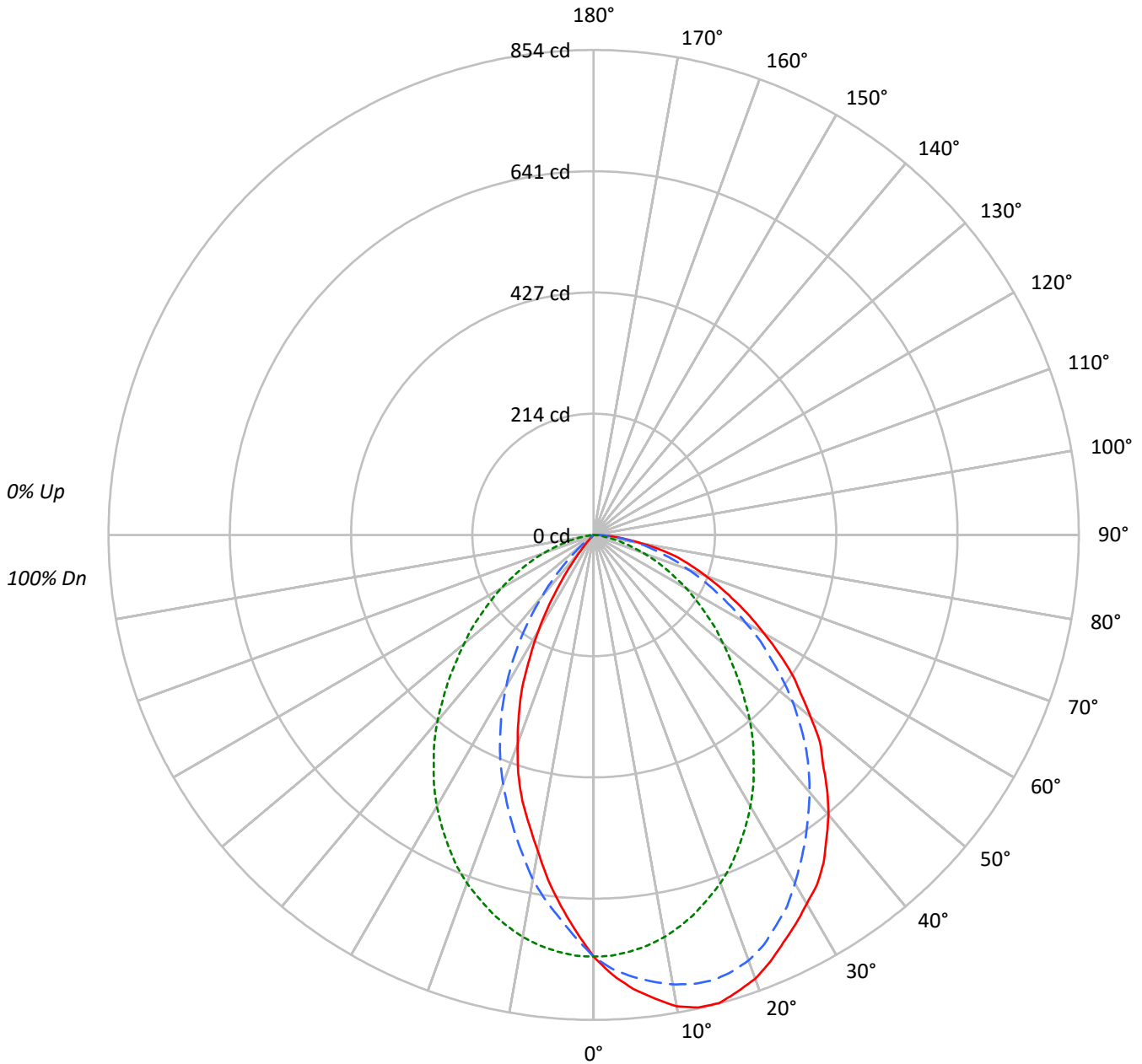
Lumens per Lamp: N/A
Luminaire Lumens: 1436.9 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.12 / 1.15
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

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				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				100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	89	86				86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74				74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64				64
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56				56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50				50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44				44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40				40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36				36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33				33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30				30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	59408	59408	59408
5°	64461	59137	52737
10°	68488	58391	45938
15°	70689	57131	40144
20°	70806	55550	33330
25°	69848	53395	26331
30°	69273	51001	17986
35°	68881	47942	9610
40°	67171	44676	3248
45°	64567	40775	351
50°	62005	37001	0
55°	59375	33516	0
60°	55344	30160	0
65°	51754	26274	0
70°	48933	21800	0
75°	47384	16320	0
80°	40081	10043	0
85°	34238	1928	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	4.8
10°-20°	190.3	13.2
20°-30°	263.8	18.4
30°-40°	276.6	19.2
40°-50°	242.5	16.9
50°-60°	188.1	13.1
60°-70°	124.5	8.7
70°-80°	65.5	4.6
80°-90°	16.3	1.1
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°	523.4	36.4
0°-40°	799.9	55.7
0°-60°	1230.6	85.6
0°-90°	1436.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1436.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	743	743	743	743	743	
5°	803	781	736	678	657	78
15°	854	812	690	540	485	240
25°	791	759	605	389	298	365
35°	705	650	491	225	98	439
45°	571	528	360	72	3	442
55°	426	381	240	1	0	378
65°	273	238	139	0	0	272
75°	153	121	53	0	0	159
85°	37	30	2	0	0	43
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°	742.6	742.6	742.6	742.6	742.6	742.6	742.6	742.6	742.6
2.5°	775.8	773.7	765.4	757.1	741.6	726.1	710.5	701.2	699.1
5°	802.7	796.5	781.0	765.4	736.4	709.5	678.4	661.8	656.7
7.5°	823.4	815.1	793.4	768.5	729.2	688.8	648.4	625.6	613.2
10°	843.1	833.8	803.7	767.5	718.8	662.9	616.3	581.1	565.5
12.5°	852.4	842.1	810.0	766.5	705.3	639.1	576.9	539.6	523.1
15°	853.5	843.1	812.0	758.2	689.8	611.1	539.6	497.2	484.7
17.5°	843.1	834.8	806.9	748.8	671.2	586.2	502.3	458.8	441.2
20°	831.7	821.4	797.5	737.5	652.5	555.2	466.1	412.2	391.5
22.5°	813.1	804.8	782.0	724.0	630.8	522.0	429.8	367.7	343.9
25°	791.3	781.0	759.2	706.4	604.9	486.8	389.4	324.2	298.3
27.5°	771.6	758.2	737.5	686.7	579.0	455.7	350.1	274.5	242.4
30°	749.9	738.5	708.5	661.8	552.1	419.5	307.6	223.7	194.7
32.5°	731.2	713.6	679.5	634.9	523.1	385.3	267.2	176.1	145.0
35°	705.3	690.8	650.5	603.8	490.9	352.2	224.8	127.4	98.4
37.5°	673.2	662.9	620.4	571.7	460.9	318.0	182.3	87.0	57.0
40°	643.2	630.8	591.4	539.6	427.8	285.9	140.9	50.8	31.1
42.5°	608.0	597.6	560.3	502.3	392.6	251.7	105.6	26.9	13.5
45°	570.7	561.4	528.2	466.1	360.4	221.7	71.5	11.4	3.1
47.5°	540.7	526.2	492.0	428.8	327.3	190.6	41.4	2.1	0.0
50°	498.2	492.0	457.8	390.5	297.3	161.6	22.8	0.0	0.0
52.5°	459.9	452.6	419.5	356.3	270.3	132.6	9.3	0.0	0.0
55°	425.7	415.3	381.2	323.2	240.3	100.5	1.0	0.0	0.0
57.5°	385.3	377.0	348.0	291.0	213.4	75.6	0.0	0.0	0.0
60°	345.9	340.8	308.7	262.0	188.5	49.7	0.0	0.0	0.0
62.5°	309.7	304.5	272.4	231.0	161.6	29.0	0.0	0.0	0.0
65°	273.4	267.2	238.2	203.0	138.8	14.5	0.0	0.0	0.0
67.5°	240.3	234.1	207.2	173.0	116.0	5.2	0.0	0.0	0.0
70°	209.2	200.9	176.1	147.1	93.2	1.0	0.0	0.0	0.0
72.5°	180.2	170.9	149.1	122.2	72.5	0.0	0.0	0.0	0.0
75°	153.3	145.0	121.2	98.4	52.8	0.0	0.0	0.0	0.0
77.5°	121.2	116.0	98.4	74.6	37.3	0.0	0.0	0.0	0.0
80°	87.0	86.0	75.6	53.9	21.8	0.0	0.0	0.0	0.0
82.5°	59.0	59.0	52.8	36.3	10.4	0.0	0.0	0.0	0.0
85°	37.3	34.2	30.0	20.7	2.1	0.0	0.0	0.0	0.0
87.5°	16.6	16.6	12.4	7.3	1.0	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)