

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: P402184

Luminaire Tested: **LD1MR012D010 ED1M12309027SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402184
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: LD1MR012D010 ED1M12309027SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

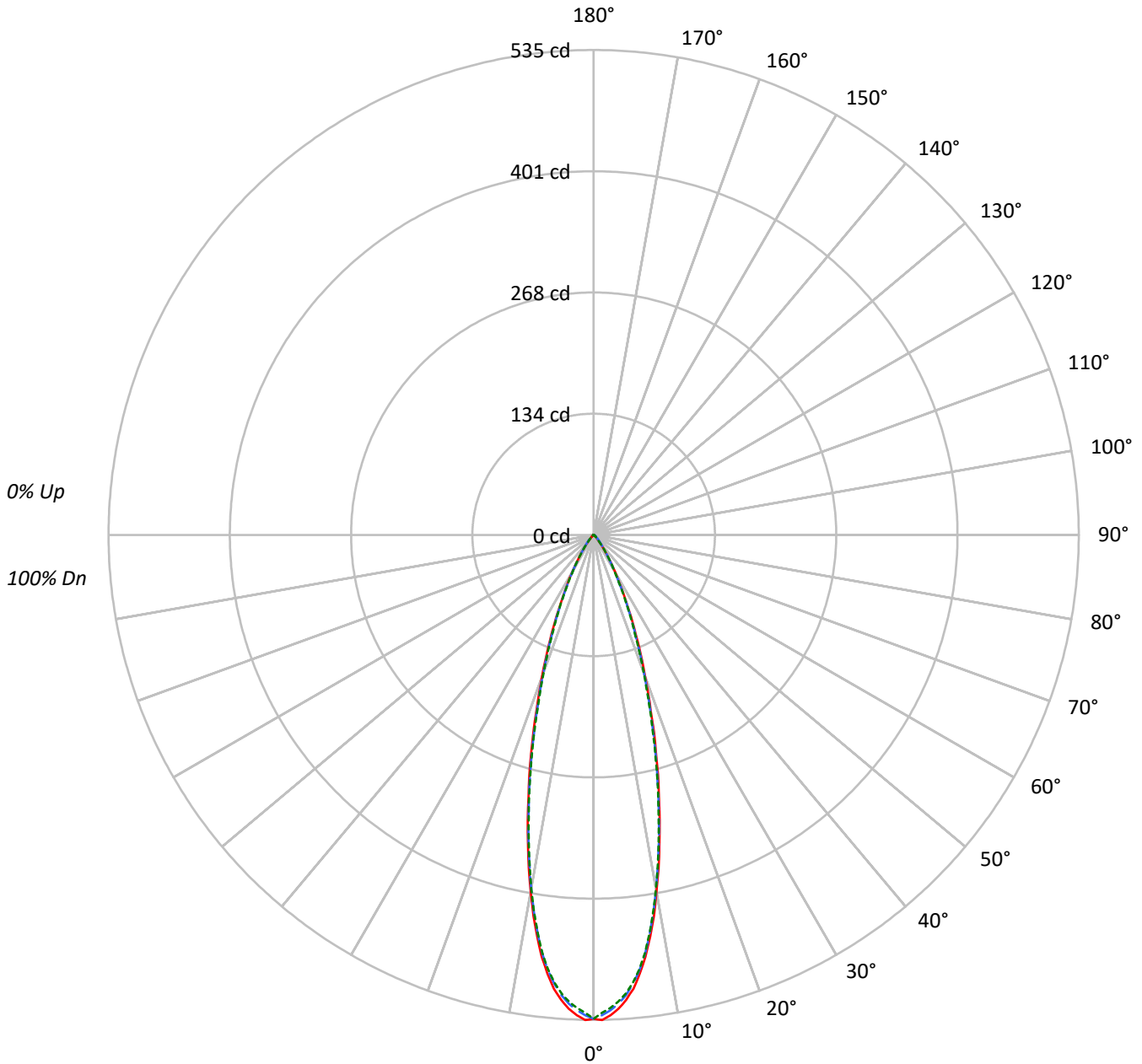
Lumens per Lamp: N/A
Luminaire Lumens: 182.0 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	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°	165510	165510	165510
5°	156371	154784	154286
10°	125756	124780	124654
15°	87969	86461	86108
20°	54862	53509	52882
25°	31742	30784	30408
30°	16896	16395	16072
35°	8099	8364	8174
40°	3399	4613	3480
45°	1754	2850	1841
50°	1109	1688	1254
55°	757	1135	865
60°	434	744	558
65°	147	513	147
70°	0	181	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	24.4
10°-20°	74.0	40.7
20°-30°	42.6	23.4
30°-40°	14.8	8.1
40°-50°	4.2	2.3
50°-60°	1.6	0.9
60°-70°	0.4	0.2
70°-80°	0.0	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°	160.9	88.4
0°-40°	175.7	96.6
0°-60°	181.5	99.8
0°-90°	182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	502	500	497	498	496	45
15°	274	273	269	269	268	75
25°	93	92	90	90	89	44
35°	21	22	22	22	22	14
45°	4	5	6	5	4	3
55°	1	2	2	2	2	1
65°	0	0	1	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533.9	533.9	533.9	533.9	533.9
1°	535.3	532.8	530.0	530.0	527.2
2°	530.2	527.9	524.9	525.1	522.1
3°	523.5	521.1	518.1	518.6	515.8
4°	514.2	511.1	509.1	509.7	507.2
5°	502.5	499.5	497.4	498.3	495.8
6°	486.7	484.6	482.8	483.9	481.6
7°	469.0	466.7	465.3	466.2	464.4
8°	447.4	445.8	444.1	445.1	443.2
9°	425.3	422.7	421.1	421.8	420.4
10°	399.5	398.3	396.4	397.1	396.0
11°	374.6	374.6	371.1	369.9	370.6
12°	349.0	348.8	345.5	344.1	344.6
13°	323.2	322.9	319.7	318.5	318.7
14°	297.6	297.8	294.3	293.4	293.1
15°	274.1	272.9	269.4	268.7	268.3
16°	249.4	249.2	245.7	244.8	244.3
17°	227.3	226.1	222.7	221.7	221.0
18°	204.3	204.5	201.0	200.3	199.2
19°	184.7	184.3	181.0	180.3	179.1
20°	166.3	164.3	162.2	161.5	160.3
22.5°	125.4	124.2	121.4	120.7	120.5
25°	92.8	91.7	90.0	89.6	88.9
26°	81.2	81.4	79.3	78.9	78.4
27°	71.9	71.4	69.6	69.3	68.6
28°	61.9	62.4	60.3	60.0	59.6
29°	54.0	54.0	52.8	52.1	51.6
30°	47.2	47.0	45.8	45.4	44.9
32.5°	32.6	32.3	31.9	31.6	31.2
35°	21.4	22.3	22.1	22.1	21.6
37.5°	13.3	15.1	15.8	15.6	14.2
40°	8.4	9.8	11.4	10.5	8.6
42.5°	5.6	6.7	8.4	7.0	5.6
45°	4.0	4.7	6.5	4.7	4.2
47.5°	3.0	3.5	4.9	3.5	3.0
50°	2.3	2.8	3.5	2.8	2.6
52.5°	1.9	2.1	2.8	2.1	1.9
55°	1.4	1.6	2.1	1.6	1.6
57.5°	1.2	1.4	1.6	1.4	1.2
60°	0.7	0.9	1.2	0.9	0.9
62.5°	0.5	0.7	0.9	0.7	0.5
65°	0.2	0.5	0.7	0.5	0.2
67.5°	0.0	0.2	0.2	0.0	0.0



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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



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







70°	0.0	0.0	0.2	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)