

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: P402188

Luminaire Tested: **LD1MR012D010 ED1M12309030SC1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402188
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 ED1M12309030SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

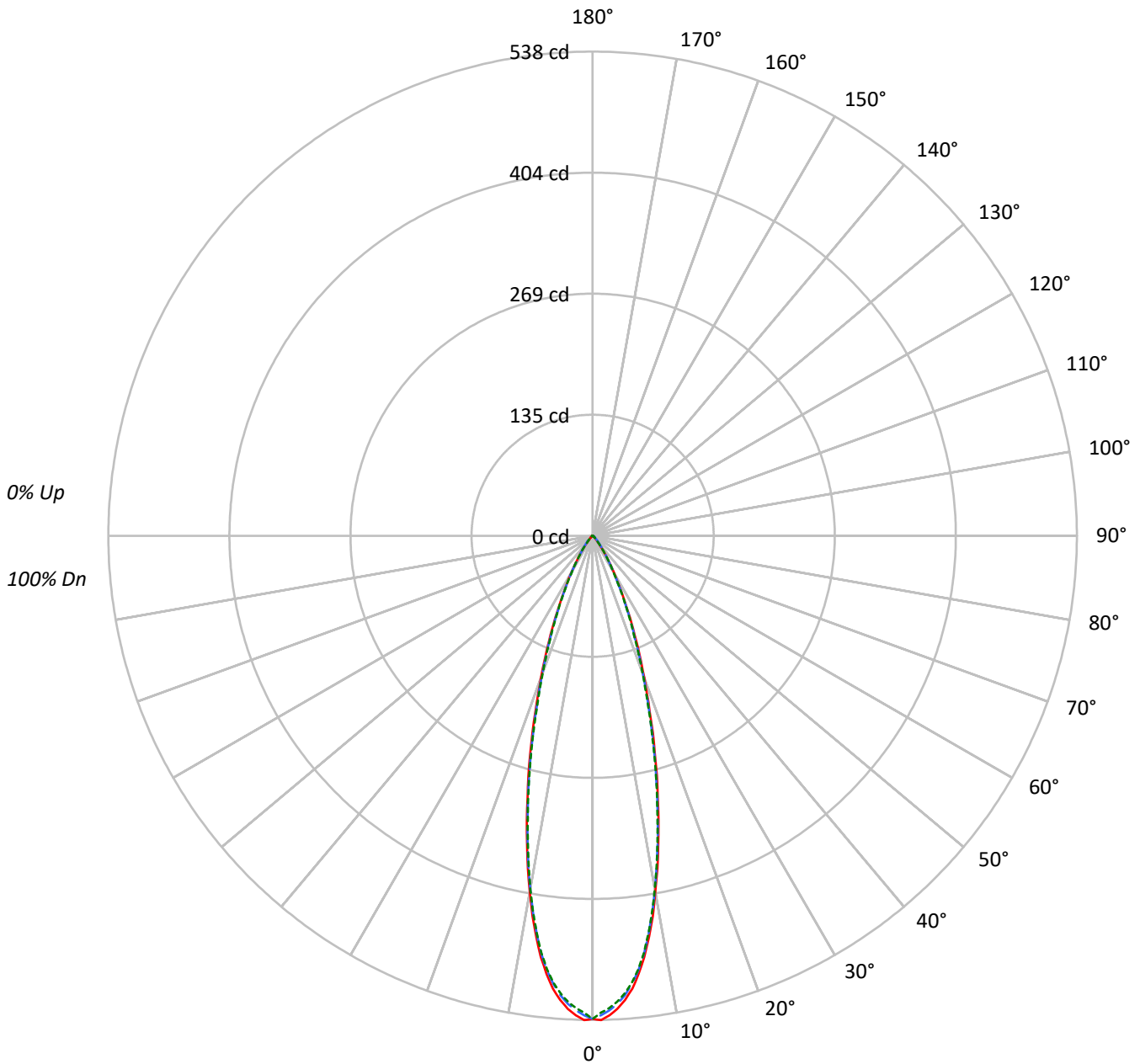
Lumens per Lamp: N/A
Luminaire Lumens: 183.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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°	166440	166440	166440
5°	157242	155655	155157
10°	126449	125504	125347
15°	88450	86942	86589
20°	55192	53806	53179
25°	31913	30955	30579
30°	17003	16502	16180
35°	8137	8401	8250
40°	3399	4654	3521
45°	1754	2893	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°	44.6	24.4
10°-20°	74.4	40.7
20°-30°	42.8	23.4
30°-40°	14.9	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°	161.8	88.4
0°-40°	176.7	96.6
0°-60°	182.5	99.8
0°-90°	183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	505	502	500	501	499	45
15°	276	274	271	270	270	75
25°	93	92	90	90	89	44
35°	22	22	22	22	22	15
45°	4	5	7	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°	536.9	536.9	536.9	536.9	536.9
1°	538.3	535.8	532.9	532.9	530.1
2°	533.2	530.8	527.8	528.0	525.0
3°	526.4	524.1	521.0	521.5	518.7
4°	517.0	514.0	511.9	512.6	510.0
5°	505.3	502.3	500.2	501.1	498.6
6°	489.4	487.3	485.5	486.6	484.3
7°	471.7	469.3	467.9	468.8	467.0
8°	449.9	448.3	446.6	447.6	445.7
9°	427.7	425.1	423.5	424.2	422.8
10°	401.7	400.5	398.7	399.4	398.2
11°	376.7	376.7	373.2	372.0	372.7
12°	350.9	350.7	347.4	346.0	346.5
13°	325.0	324.7	321.5	320.3	320.5
14°	299.2	299.5	296.0	295.0	294.8
15°	275.6	274.4	270.9	270.2	269.8
16°	250.8	250.6	247.1	246.1	245.7
17°	228.6	227.4	223.9	223.0	222.3
18°	205.4	205.6	202.1	201.4	200.3
19°	185.8	185.3	182.0	181.3	180.1
20°	167.3	165.2	163.1	162.4	161.2
22.5°	126.1	124.9	122.1	121.4	121.2
25°	93.3	92.2	90.5	90.1	89.4
26°	81.7	81.9	79.8	79.3	78.8
27°	72.3	71.8	70.0	69.7	69.0
28°	62.2	62.7	60.6	60.4	59.9
29°	54.3	54.3	53.1	52.4	51.9
30°	47.5	47.3	46.1	45.6	45.2
32.5°	32.8	32.5	32.1	31.8	31.3
35°	21.5	22.5	22.2	22.2	21.8
37.5°	13.3	15.2	15.9	15.7	14.3
40°	8.4	9.8	11.5	10.5	8.7
42.5°	5.6	6.8	8.4	7.0	5.6
45°	4.0	4.7	6.6	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)