

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: P402191

Luminaire Tested: **LD1MR012D010 ED1M12309035SB1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402191
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 ED1M12309035SB1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR BLACK BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

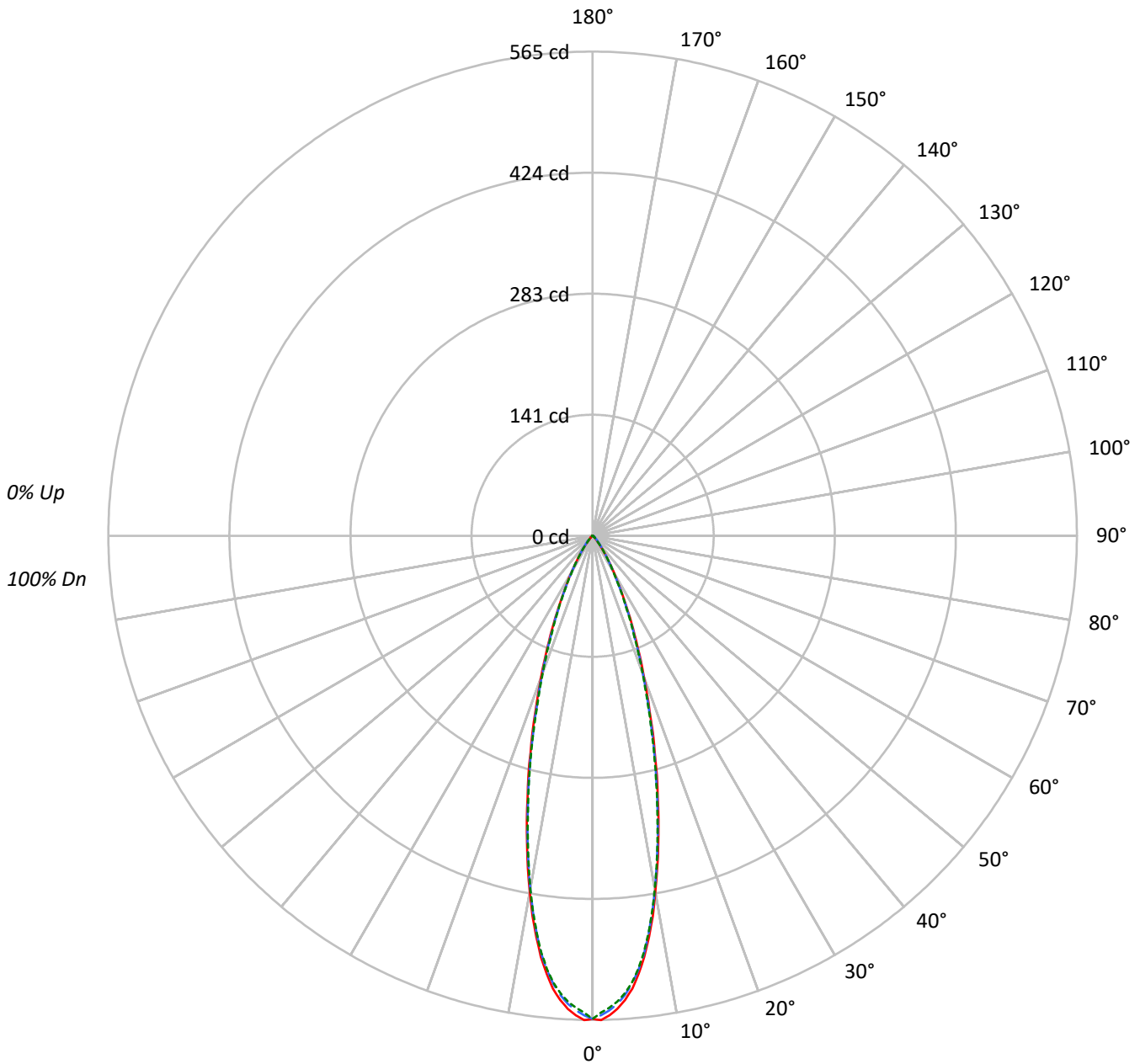
Lumens per Lamp: N/A
Luminaire Lumens: 192.1 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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			100																
1	114	112	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	95			95																
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91			91																
3	106	101	96	93	104	99	95	92	97	94	91	94	92	90	92	90	88	87			87																
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83			83																
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79			79																
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76			76																
7	91	84	79	75	90	83	78	75	82	78	75	81	77	74	80	77	74	73			73																
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70			70																
9	85	77	73	69	84	77	72	69	76	72	69	75	71	69	74	71	69	67			67																
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65			65																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	174779	174779	174779
5°	165115	163435	162906
10°	132776	131769	131611
15°	92879	91307	90889
20°	57930	56478	55852
25°	33521	32529	32084
30°	17862	17325	16967
35°	8553	8818	8628
40°	3561	4856	3683
45°	1841	3025	1929
50°	1206	1784	1302
55°	811	1189	919
60°	434	744	620
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°	46.8	24.4
10°-20°	78.1	40.7
20°-30°	45.0	23.4
30°-40°	15.6	8.1
40°-50°	4.4	2.3
50°-60°	1.7	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°	169.9	88.4
0°-40°	185.5	96.6
0°-60°	191.7	99.8
0°-90°	192.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	192.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	564	564	564	564	564	
5°	531	527	525	526	524	47
15°	289	288	284	284	283	79
25°	98	97	95	95	94	46
35°	23	24	23	23	23	15
45°	4	5	7	5	4	4
55°	2	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°	563.8	563.8	563.8	563.8	563.8
1°	565.3	562.5	559.6	559.6	556.7
2°	559.8	557.4	554.2	554.4	551.2
3°	552.7	550.3	547.1	547.6	544.6
4°	542.9	539.7	537.5	538.2	535.5
5°	530.6	527.4	525.2	526.2	523.5
6°	513.9	511.7	509.7	511.0	508.5
7°	495.2	492.8	491.3	492.3	490.3
8°	472.4	470.7	469.0	469.9	468.0
9°	449.1	446.4	444.6	445.4	443.9
10°	421.8	420.6	418.6	419.3	418.1
11°	395.5	395.5	391.8	390.6	391.3
12°	368.5	368.2	364.8	363.3	363.8
13°	341.2	341.0	337.5	336.3	336.5
14°	314.2	314.4	310.8	309.8	309.5
15°	289.4	288.2	284.5	283.7	283.2
16°	263.3	263.1	259.4	258.4	257.9
17°	240.0	238.8	235.1	234.1	233.4
18°	215.7	215.9	212.2	211.5	210.3
19°	195.0	194.6	191.1	190.4	189.2
20°	175.6	173.4	171.2	170.5	169.3
22.5°	132.4	131.2	128.2	127.5	127.2
25°	98.0	96.8	95.1	94.6	93.8
26°	85.7	86.0	83.8	83.3	82.8
27°	75.9	75.4	73.5	73.2	72.5
28°	65.3	65.8	63.6	63.4	62.9
29°	57.0	57.0	55.8	55.0	54.5
30°	49.9	49.6	48.4	47.9	47.4
32.5°	34.4	34.1	33.7	33.4	32.9
35°	22.6	23.6	23.3	23.3	22.8
37.5°	14.0	16.0	16.7	16.5	15.0
40°	8.8	10.3	12.0	11.1	9.1
42.5°	5.9	7.1	8.8	7.4	5.9
45°	4.2	4.9	6.9	4.9	4.4
47.5°	3.2	3.7	5.2	3.7	3.2
50°	2.5	2.9	3.7	2.9	2.7
52.5°	2.0	2.2	2.9	2.2	2.0
55°	1.5	1.7	2.2	1.7	1.7
57.5°	1.2	1.5	1.7	1.5	1.2
60°	0.7	1.0	1.2	1.0	1.0
62.5°	0.5	0.7	1.0	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)