

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: P402255

Luminaire Tested: **LD1MR022D010 ED1M22309035SB1MW**

Issue Date: 6/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P402255  
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: LD1MR022D010 ED1M22309035SB1MW  
Description: 1 INCH 30° OPTIC WITH SPECULAR BLACK BAFFLE  
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

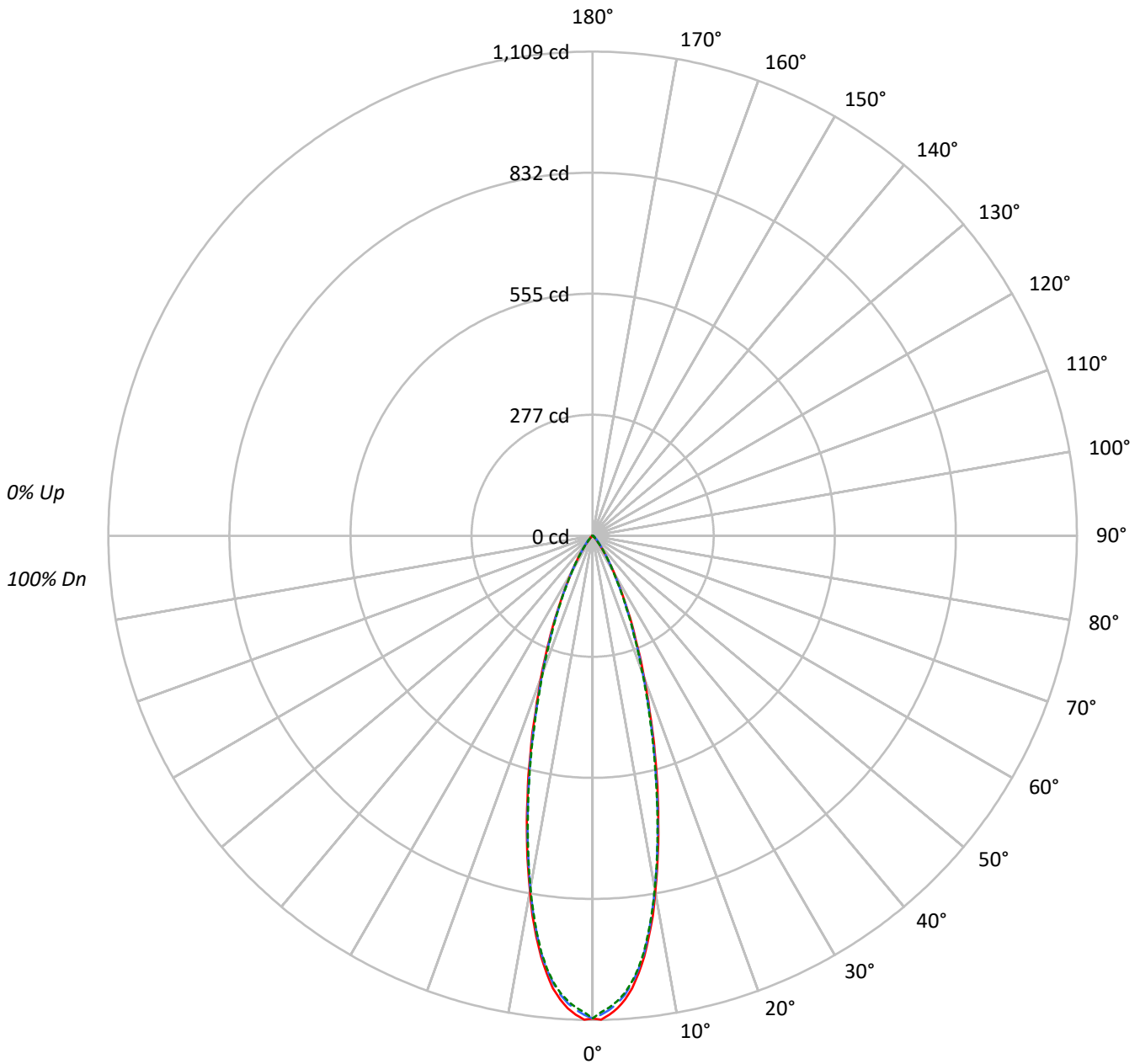
Lumens per Lamp: N/A  
Luminaire Lumens: 376.9 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52  
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.7  
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

TEST NUMBER: P402255

CATALOG NUMBER: LD1MR022D010 ED1M22309035SB1MW

### 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°	342769	342769	342769
5°	323820	320521	319495
10°	260389	258438	258123
15°	182132	179051	178281
20°	113650	110779	109493
25°	65742	63758	62937
30°	35008	33970	33290
35°	16765	17333	16954
40°	7001	9550	7203
45°	3595	5919	3814
50°	2315	3472	2556
55°	1567	2324	1838
60°	868	1488	1178
65°	367	1027	367
70°	0	453	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P402255

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	24.4
10°-20°	153.3	40.7
20°-30°	88.2	23.4
30°-40°	30.7	8.1
40°-50°	8.7	2.3
50°-60°	3.3	0.9
60°-70°	0.9	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°	333.2	88.4
0°-40°	363.9	96.6
0°-60°	375.9	99.8
0°-90°	376.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1041	1034	1030	1032	1027	92
15°	568	565	558	556	556	155
25°	192	190	186	186	184	90
35°	44	46	46	46	45	30
45°	8	10	14	10	9	7
55°	3	3	4	3	3	3
65°	0	1	1	1	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P402255

CATALOG NUMBER: LD1MR022D010 ED1M22309035SB1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
1°	1108.6	1103.3	1097.5	1097.5	1091.7
2°	1098.0	1093.2	1086.9	1087.4	1081.1
3°	1084.0	1079.2	1072.9	1073.9	1068.1
4°	1064.7	1058.5	1054.1	1055.6	1050.3
5°	1040.6	1034.4	1030.0	1032.0	1026.7
6°	1007.9	1003.5	999.7	1002.1	997.3
7°	971.3	966.4	963.6	965.5	961.6
8°	926.5	923.1	919.7	921.6	917.8
9°	880.7	875.4	872.0	873.5	870.6
10°	827.2	824.8	821.0	822.4	820.0
11°	775.7	775.7	768.4	766.0	767.5
12°	722.7	722.2	715.4	712.6	713.5
13°	669.2	668.7	662.0	659.6	660.0
14°	616.2	616.7	609.5	607.5	607.0
15°	567.5	565.1	557.9	556.5	555.5
16°	516.5	516.0	508.8	506.8	505.9
17°	470.7	468.3	461.1	459.1	457.7
18°	423.0	423.5	416.3	414.8	412.4
19°	382.5	381.6	374.8	373.4	371.0
20°	344.5	340.1	335.8	334.4	331.9
22.5°	259.7	257.3	251.5	250.0	249.6
25°	192.2	189.8	186.4	185.5	184.0
26°	168.1	168.6	164.3	163.3	162.4
27°	148.9	147.9	144.1	143.6	142.1
28°	128.2	129.1	124.8	124.3	123.3
29°	111.8	111.8	109.4	107.9	107.0
30°	97.8	97.3	94.9	93.9	93.0
32.5°	67.4	67.0	66.0	65.5	64.6
35°	44.3	46.3	45.8	45.8	44.8
37.5°	27.5	31.3	32.8	32.3	29.4
40°	17.3	20.2	23.6	21.7	17.8
42.5°	11.6	14.0	17.3	14.5	11.6
45°	8.2	9.6	13.5	9.6	8.7
47.5°	6.3	7.2	10.1	7.2	6.3
50°	4.8	5.8	7.2	5.8	5.3
52.5°	3.9	4.3	5.8	4.3	3.9
55°	2.9	3.4	4.3	3.4	3.4
57.5°	2.4	2.9	3.4	2.9	2.4
60°	1.4	1.9	2.4	1.9	1.9
62.5°	1.0	1.4	1.9	1.4	1.0
65°	0.5	1.0	1.4	1.0	0.5
67.5°	0.0	0.5	0.5	0.0	0.0



TEST NUMBER: P402255

CATALOG NUMBER: LD1MR022D010 ED1M22309035SB1MW

**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



Report Generated By E9808895 / USPTCWHP6082093







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







70°	0.0	0.0	0.5	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)