

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: P402256

Luminaire Tested: **LD1MR022D010 ED1M22309035SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402256
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 ED1M22309035SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

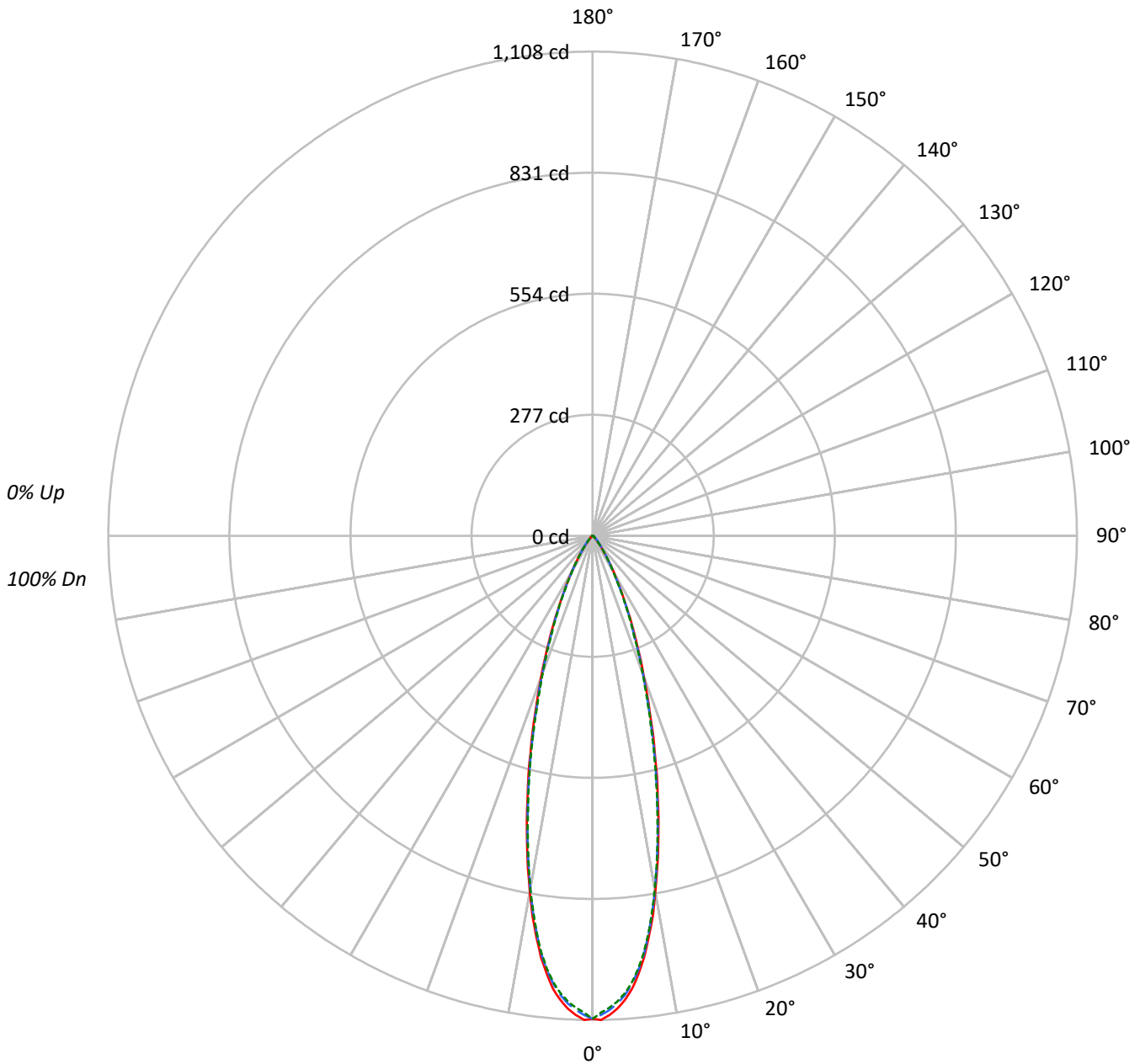
Lumens per Lamp: N/A
Luminaire Lumens: 376.8 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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°	342676	342676	342676
5°	323758	320459	319401
10°	260326	258375	258060
15°	182100	179019	178249
20°	113617	110746	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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	24.4
10°-20°	153.2	40.7
20°-30°	88.1	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°	363.8	96.6
0°-60°	375.8	99.8
0°-90°	376.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1040	1034	1030	1032	1026	92
15°	567	565	558	556	555	155
25°	192	190	186	185	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.4	1105.4	1105.4	1105.4	1105.4
1°	1108.3	1103.0	1097.2	1097.2	1091.5
2°	1097.7	1092.9	1086.6	1087.1	1080.9
3°	1083.7	1078.9	1072.7	1073.6	1067.8
4°	1064.5	1058.2	1053.9	1055.3	1050.0
5°	1040.4	1034.1	1029.8	1031.7	1026.4
6°	1007.6	1003.3	999.5	1001.9	997.0
7°	971.0	966.2	963.3	965.3	961.4
8°	926.2	922.9	919.5	921.4	917.6
9°	880.5	875.2	871.8	873.3	870.4
10°	827.0	824.6	820.8	822.2	819.8
11°	775.5	775.5	768.3	765.8	767.3
12°	722.5	722.0	715.3	712.4	713.3
13°	669.0	668.5	661.8	659.4	659.9
14°	616.0	616.5	609.3	607.4	606.9
15°	567.4	565.0	557.8	556.3	555.4
16°	516.3	515.9	508.6	506.7	505.7
17°	470.6	468.2	461.0	459.0	457.6
18°	422.9	423.4	416.2	414.7	412.3
19°	382.4	381.5	374.7	373.3	370.9
20°	344.4	340.1	335.7	334.3	331.9
22.5°	259.6	257.2	251.4	250.0	249.5
25°	192.2	189.8	186.4	185.4	184.0
26°	168.1	168.6	164.2	163.3	162.3
27°	148.8	147.9	144.0	143.5	142.1
28°	128.1	129.1	124.8	124.3	123.3
29°	111.7	111.7	109.3	107.9	106.9
30°	97.8	97.3	94.9	93.9	93.0
32.5°	67.4	67.0	66.0	65.5	64.5
35°	44.3	46.2	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	14.4	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



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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	0.5	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)