

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: P402500

Luminaire Tested: **LD1MRT152D010TR509040SC1MW**

Issue Date: 6/3/2020

Test Information

Test Method: LM-41-14
Report Number: P402500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1912-604-8)
Test Lab: INNOVATION CENTER (G3)
Issue Date: 6/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD1MRT152D010TR509040SC1MW
Description: 1 INCH 50° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

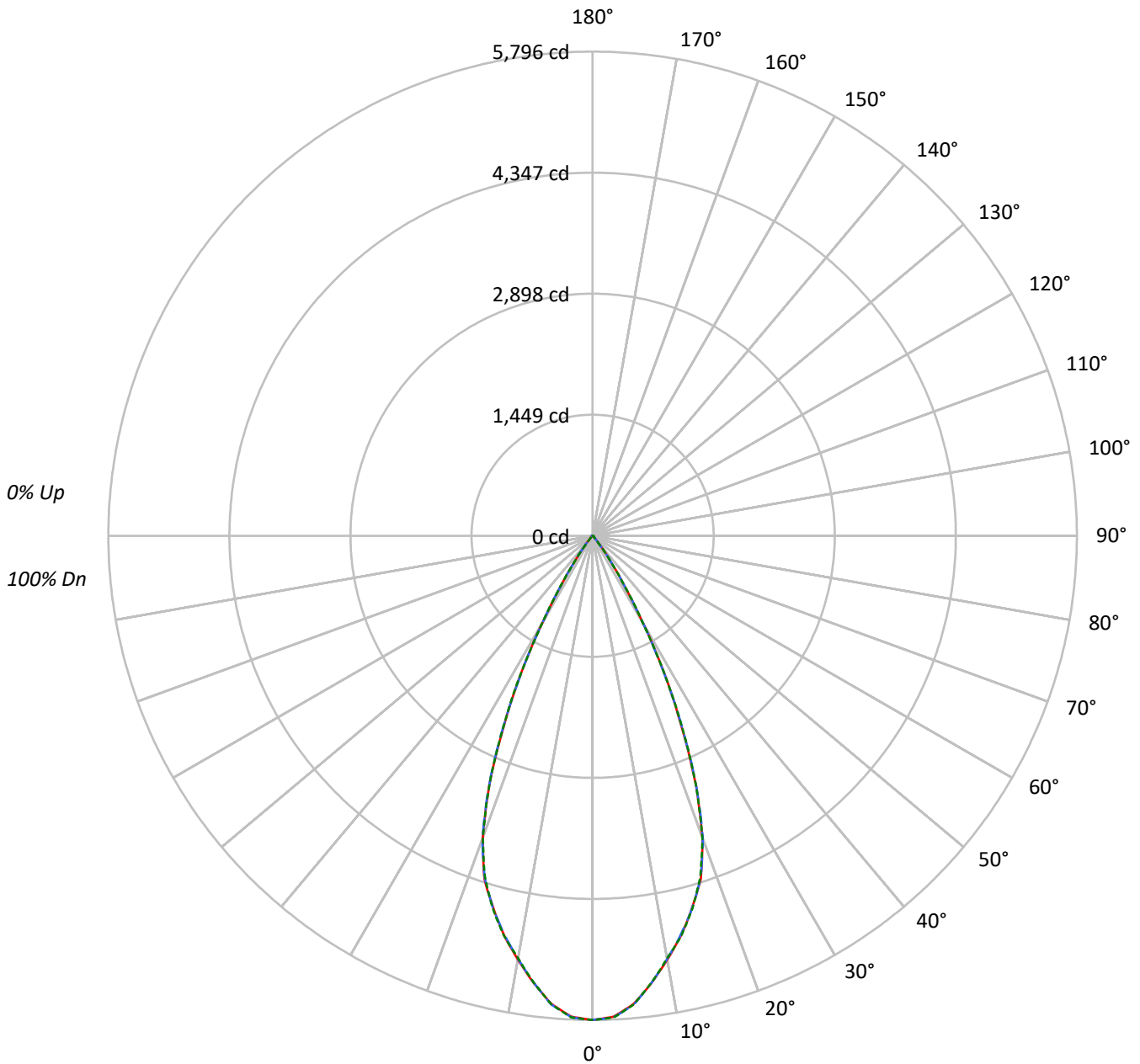
Lumens per Lamp: N/A
Luminaire Lumens: 3271.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.71
Luminous Opening: Rectangular (W 0.1' x L: 1.29' x H: 0')
CIE Type: Direct

Input Watts (W): 34.2
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	104	103	102	101	100	99	98	97	95																			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90																			
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85																			
4	101	94	89	86	99	93	89	85	91	87	84	89	86	83	87	85	82	81																			
5	97	89	84	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77																			
6	93	85	80	76	91	84	79	76	83	79	75	82	78	75	80	77	75	73																			
7	89	81	76	72	88	80	76	72	79	75	72	78	74	71	77	74	71	70																			
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67																			
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64																			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	64	62	61																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	463656	463656	463656
5°	451927	452530	452273
10°	418453	417844	417153
15°	381420	381859	382397
20°	327179	328184	326907
25°	221779	224515	224136
30°	109863	110556	110158
35°	36692	36906	34709
40°	8386	8156	7039
45°	3270	3632	3032
50°	2663	2800	2402
55°	2385	2385	2092
60°	1888	2048	1712
65°	1211	1420	1022
70°	0	257	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.7	15.9
10°-20°	1279.0	39.1
20°-30°	1138.6	34.8
30°-40°	284.2	8.7
40°-50°	27.1	0.8
50°-60°	14.8	0.5
60°-70°	5.9	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°	2939.3	89.8
0°-40°	3223.5	98.5
0°-60°	3265.4	99.8
0°-90°	3271.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3271.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5796	5796	5796	5796	5796	
5°	5628	5648	5635	5631	5632	521
15°	4605	4629	4611	4602	4617	1279
25°	2512	2540	2544	2561	2539	1135
35°	376	390	378	372	355	283
45°	29	29	32	28	27	28
55°	17	17	17	16	15	15
65°	6	6	8	6	5	6
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°	5795.7	5795.7	5795.7	5795.7	5795.7
2.5°	5762.5	5788.2	5770.0	5771.1	5772.1
5°	5627.6	5647.9	5635.1	5630.8	5631.9
7.5°	5399.6	5417.8	5397.4	5404.9	5396.4
10°	5151.2	5169.4	5143.7	5143.7	5135.2
12.5°	4898.6	4917.9	4886.8	4883.6	4903.9
15°	4605.3	4628.8	4610.6	4602.1	4617.1
17.5°	4308.8	4305.5	4294.8	4289.5	4284.1
20°	3843.1	3862.4	3854.9	3822.7	3839.9
22.5°	3230.8	3231.8	3242.5	3247.9	3234.0
25°	2512.5	2540.3	2543.5	2560.6	2539.2
27.5°	1861.6	1866.9	1838.0	1840.2	1860.5
30°	1189.3	1205.4	1196.8	1205.4	1192.5
32.5°	686.2	700.1	694.8	701.2	702.2
35°	375.7	389.7	377.9	372.5	355.4
37.5°	186.3	186.3	190.5	175.6	167.0
40°	80.3	82.4	78.1	73.9	67.4
42.5°	40.7	40.7	42.8	36.4	35.3
45°	28.9	28.9	32.1	27.8	26.8
47.5°	24.6	24.6	26.8	23.6	22.5
50°	21.4	21.4	22.5	20.3	19.3
52.5°	19.3	19.3	20.3	18.2	17.1
55°	17.1	17.1	17.1	16.1	15.0
57.5°	13.9	15.0	15.0	13.9	12.8
60°	11.8	11.8	12.8	11.8	10.7
62.5°	9.6	9.6	9.6	9.6	8.6
65°	6.4	6.4	7.5	6.4	5.4
67.5°	1.1	2.1	5.4	0.0	0.0
70°	0.0	0.0	1.1	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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°







(END OF REPORT)