

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: P402360

Luminaire Tested: **LA1MRT152D010TR309027SC1MW**

Issue Date: 6/3/2020



Test Information

Test Method: LM-41-14
Report Number: P402360
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: LA1MRT152D010TR309027SC1MW
Description: 1 INCH 30° OPTIC WITH SPECULAR CLEAR BAFFLE
Light Source: HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

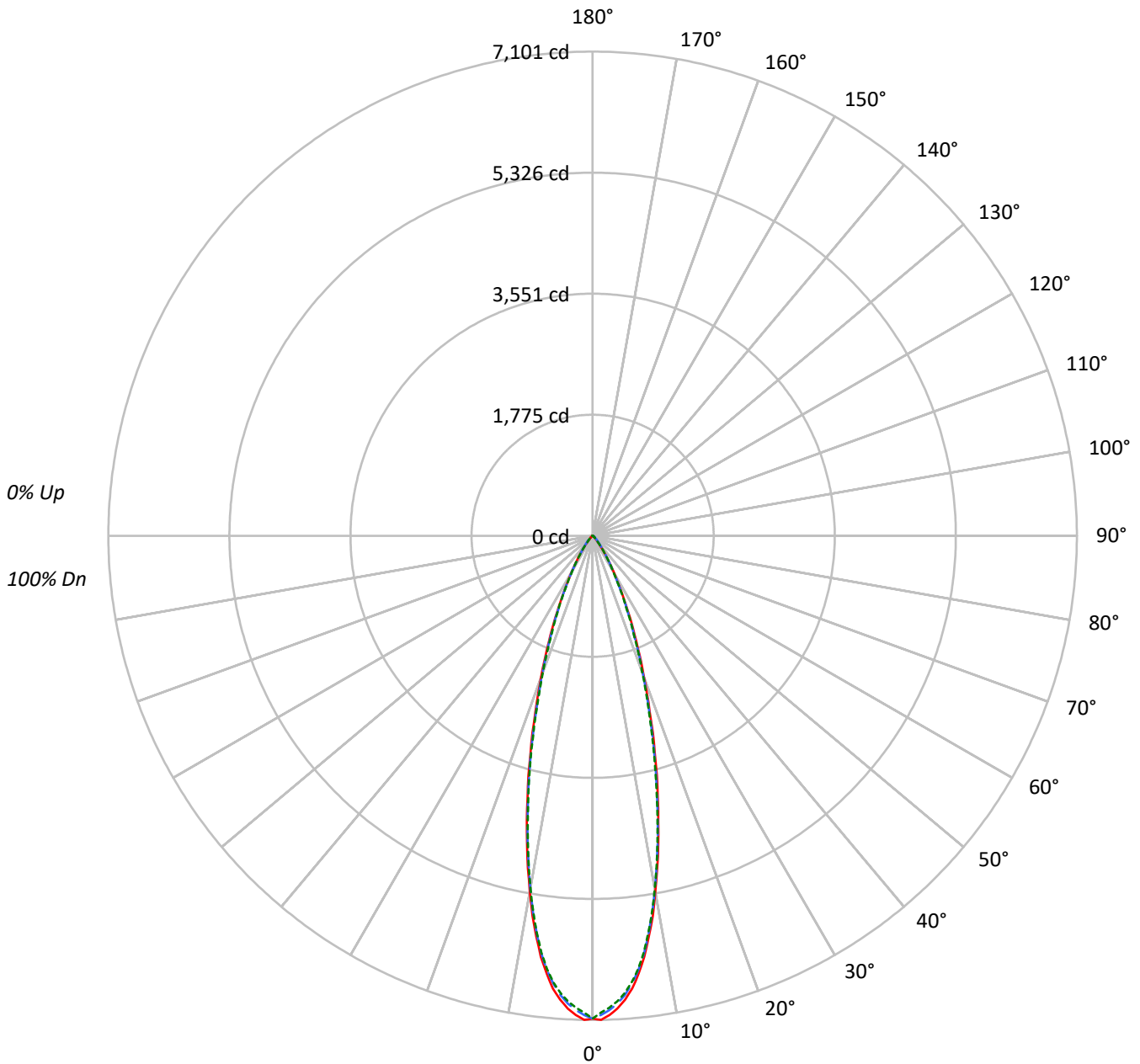
Lumens per Lamp: N/A
Luminaire Lumens: 2414.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.5 / 0.52
Luminous Opening: Rectangular (W 0.08' x L: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	2195618	2195618	2195618
5°	2074365	2053236	2046514
10°	1667978	1655355	1653403
15°	1166736	1146934	1141992
20°	727951	709608	701460
25°	421199	408509	403242
30°	224261	217639	213200
35°	107440	110959	108613
40°	44960	61187	46214
45°	23016	37879	24332
50°	14902	22329	16349
55°	9999	15025	11674
60°	5766	9548	7626
65°	2274	6822	2274
70°	0	2810	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	24.4
10°-20°	981.7	40.7
20°-30°	564.7	23.4
30°-40°	196.5	8.1
40°-50°	55.7	2.3
50°-60°	21.3	0.9
60°-70°	5.8	0.2
70°-80°	0.1	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°	2134.5	88.4
0°-40°	2331.0	96.6
0°-60°	2408.1	99.8
0°-90°	2414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7083	7083	7083	7083	7083	
5°	6666	6626	6598	6610	6576	592
15°	3635	3620	3574	3564	3558	992
25°	1231	1216	1194	1188	1179	578
35°	284	296	293	293	287	192
45°	52	62	86	62	56	45
55°	18	22	28	22	22	17
65°	3	6	9	6	3	3
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°	7082.6	7082.6	7082.6	7082.6	7082.6
1°	7101.1	7067.2	7030.1	7030.1	6993.1
2°	7033.2	7002.3	6962.2	6965.3	6925.2
3°	6943.7	6912.9	6872.7	6878.9	6841.9
4°	6820.3	6780.1	6752.4	6761.6	6727.7
5°	6666.0	6625.8	6598.1	6610.4	6576.5
6°	6456.1	6428.3	6403.6	6419.1	6388.2
7°	6221.6	6190.7	6172.2	6184.5	6159.8
8°	5934.6	5913.0	5891.4	5903.7	5879.0
9°	5641.4	5607.4	5585.8	5595.1	5576.6
10°	5298.8	5283.4	5258.7	5268.0	5252.5
11°	4968.6	4968.6	4922.3	4906.9	4916.1
12°	4629.1	4626.1	4582.8	4564.3	4570.5
13°	4286.6	4283.5	4240.3	4224.9	4227.9
14°	3947.1	3950.2	3903.9	3891.6	3888.5
15°	3635.4	3620.0	3573.7	3564.4	3558.3
16°	3308.3	3305.2	3258.9	3246.6	3240.4
17°	3015.1	2999.7	2953.4	2941.0	2931.8
18°	2709.6	2712.7	2666.4	2657.1	2641.7
19°	2450.4	2444.2	2401.0	2391.7	2376.3
20°	2206.6	2178.8	2151.0	2141.7	2126.3
22.5°	1663.4	1648.0	1610.9	1601.7	1598.6
25°	1231.4	1215.9	1194.3	1188.1	1178.9
26°	1077.0	1080.1	1052.4	1046.2	1040.0
27°	953.6	947.4	922.7	919.7	910.4
28°	820.9	827.1	799.3	796.2	790.0
29°	716.0	716.0	700.5	691.3	685.1
30°	626.5	623.4	608.0	601.8	595.6
32.5°	432.1	429.0	422.8	419.7	413.5
35°	283.9	296.3	293.2	293.2	287.0
37.5°	175.9	200.6	209.9	206.8	188.3
40°	111.1	129.6	151.2	138.9	114.2
42.5°	74.1	89.5	111.1	92.6	74.1
45°	52.5	61.7	86.4	61.7	55.5
47.5°	40.1	46.3	64.8	46.3	40.1
50°	30.9	37.0	46.3	37.0	33.9
52.5°	24.7	27.8	37.0	27.8	24.7
55°	18.5	21.6	27.8	21.6	21.6
57.5°	15.4	18.5	21.6	18.5	15.4
60°	9.3	12.3	15.4	12.3	12.3
62.5°	6.2	9.3	12.3	9.3	6.2
65°	3.1	6.2	9.3	6.2	3.1
67.5°	0.0	3.1	3.1	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	3.1	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0



(END OF REPORT)