

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P246742

Luminaire Tested: **LD8B40D010 ER8B409727 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B40D010 ER8B409727 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3070.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

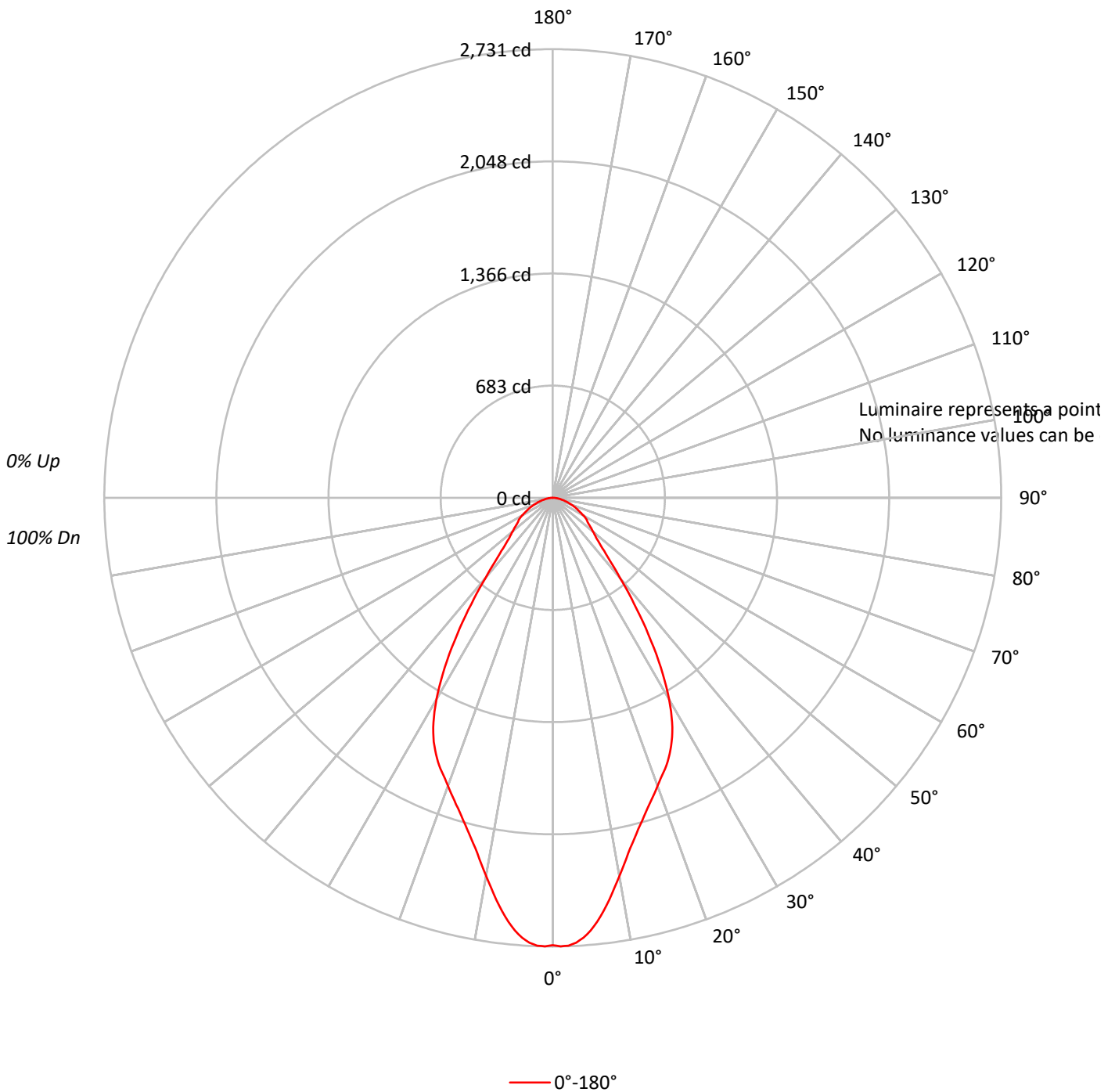
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246742

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P246742

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBM0MW

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

**AVERAGE LUMINANCE (cd/sqm):**





TEST NUMBER: P246742

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	7.9
10°-20°	580.9	18.9
20°-30°	769.7	25.1
30°-40°	631.2	20.6
40°-50°	336.2	11.0
50°-60°	236.6	7.7
60°-70°	163.2	5.3
70°-80°	85.0	2.8
80°-90°	25.1	0.8
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°	1592.6	51.9
0°-40°	2223.8	72.4
0°-60°	2796.7	91.1
0°-90°	3070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3070.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2723	
5°	2644	242
15°	2060	581
25°	1696	770
35°	1015	631
45°	415	336
55°	260	237
65°	164	163
75°	81	85
85°	23	25
90°	0	



TEST NUMBER: P246742

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2723.4
1°	2731.1
2°	2727.8
3°	2711.6
4°	2684.0
5°	2644.2
6°	2594.5
7°	2534.8
8°	2470.8
9°	2402.7
10°	2336.9
11°	2273.9
12°	2209.9
13°	2156.5
14°	2105.9
15°	2059.7
16°	2016.2
17°	1976.1
18°	1938.9
19°	1901.7
20°	1866.1
21°	1831.3
22°	1801.1
23°	1770.2
24°	1733.8
25°	1695.5
26°	1652.1
27°	1603.1
28°	1548.0
29°	1486.8
30°	1416.5
31°	1342.9
32°	1265.6
33°	1183.1
34°	1100.3
35°	1015.3
37.5°	813.5
40°	637.7
42.5°	503.6
45°	414.9
47.5°	356.3
50°	319.8
52.5°	287.9
55°	260.2
57.5°	243.3



TEST NUMBER: P246742

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	215.0
62.5°	187.4
65°	163.5
67.5°	142.2
70°	119.0
72.5°	99.4
75°	81.0
77.5°	58.6
80°	47.8
82.5°	34.6
85°	23.1
87.5°	10.7
90°	0.0

(END OF REPORT)