

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: P244438

Luminaire Tested: **LSR8B40D010 EC8B409727 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B409727 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3020.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

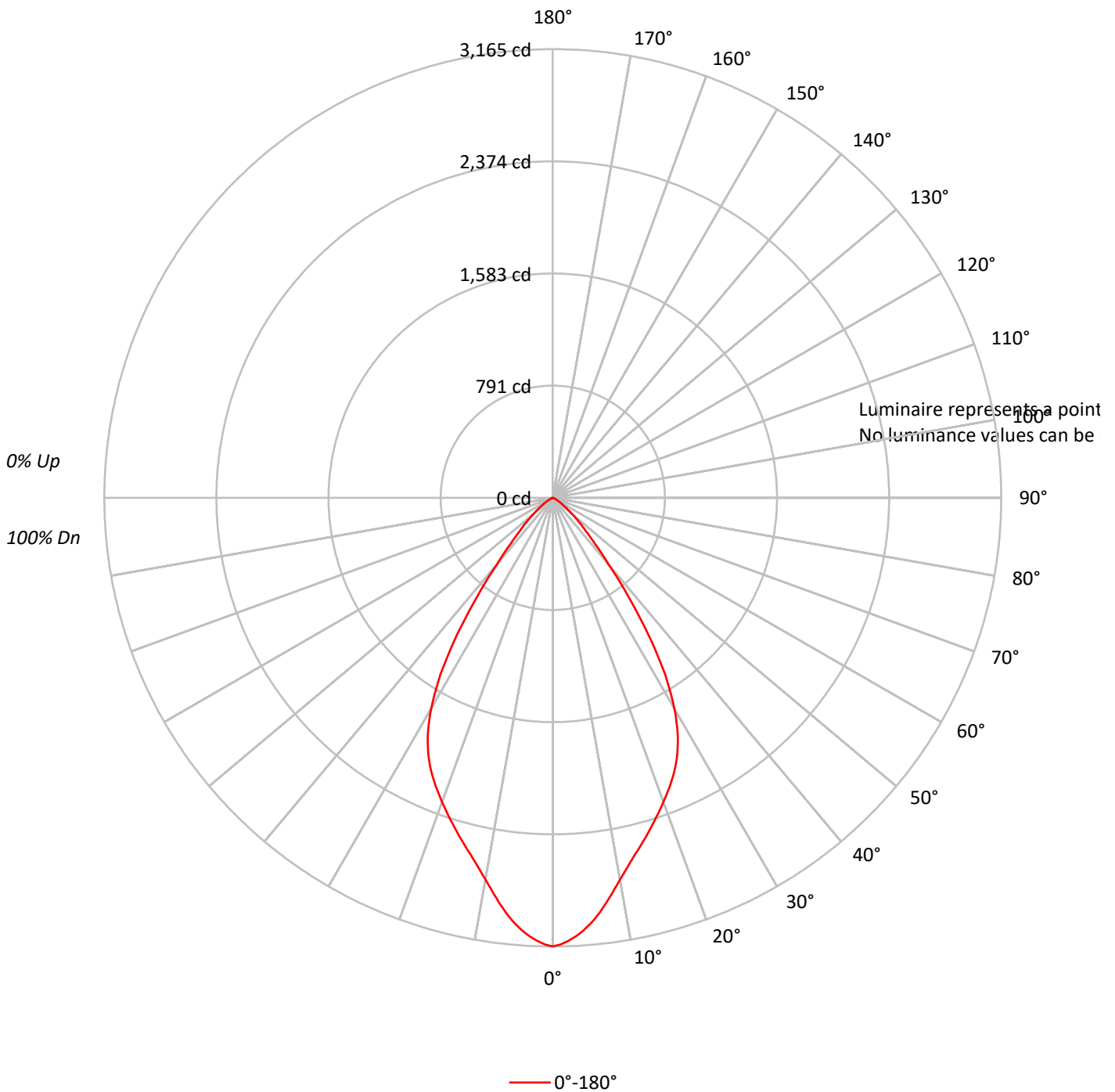
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244438

CATALOG NUMBER: LSR8B40D010 EC8B409727 8LBM0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244438

CATALOG NUMBER: LSR8B40D010 EC8B409727 8LBM0H

**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	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	82		86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70		77	73	69		75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64		72	68	64		71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60		68	63	59		67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48		57	52	48		56	51	48	47

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





TEST NUMBER: P244438

CATALOG NUMBER: LSR8B40D010 EC8B409727 8LBM0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.7	9.2
10°-20°	701.6	23.2
20°-30°	936.1	31.0
30°-40°	721.6	23.9
40°-50°	269.0	8.9
50°-60°	88.0	2.9
60°-70°	20.3	0.7
70°-80°	4.1	0.1
80°-90°	0.6	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°	1916.4	63.5
0°-40°	2638.0	87.4
0°-60°	2995.0	99.2
0°-90°	3020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3165	
5°	3019	279
15°	2496	702
25°	2061	936
35°	1174	722
45°	327	269
55°	92	88
65°	18	20
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P244438

CATALOG NUMBER: LSR8B40D010 EC8B409727 8LBM0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3164.6
1°	3150.8
2°	3127.8
3°	3098.2
4°	3062.1
5°	3018.8
6°	2969.7
7°	2913.5
8°	2853.6
9°	2791.5
10°	2734.5
11°	2679.7
12°	2628.5
13°	2581.6
14°	2538.3
15°	2495.7
16°	2452.4
17°	2410.6
18°	2367.3
19°	2324.7
20°	2283.6
21°	2241.0
22°	2199.9
23°	2156.6
24°	2111.1
25°	2060.6
26°	2005.1
27°	1943.8
28°	1875.9
29°	1800.2
30°	1717.2
32.5°	1474.1
35°	1173.9
37.5°	869.4
40°	615.5
42.5°	440.8
45°	326.8
47.5°	246.0
50°	181.8
52.5°	129.9
55°	92.4
57.5°	63.5
60°	41.8
62.5°	27.4
65°	18.0



TEST NUMBER: P244438

CATALOG NUMBER: LSR8B40D010 EC8B409727 8LBM0H

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	12.3
70°	7.9
72.5°	5.1
75°	3.6
77.5°	2.2
80°	1.4
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)