

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: P244312

Luminaire Tested: **LSR8B40D010 EC8B40830 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B40D010 EC8B40830 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3833.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

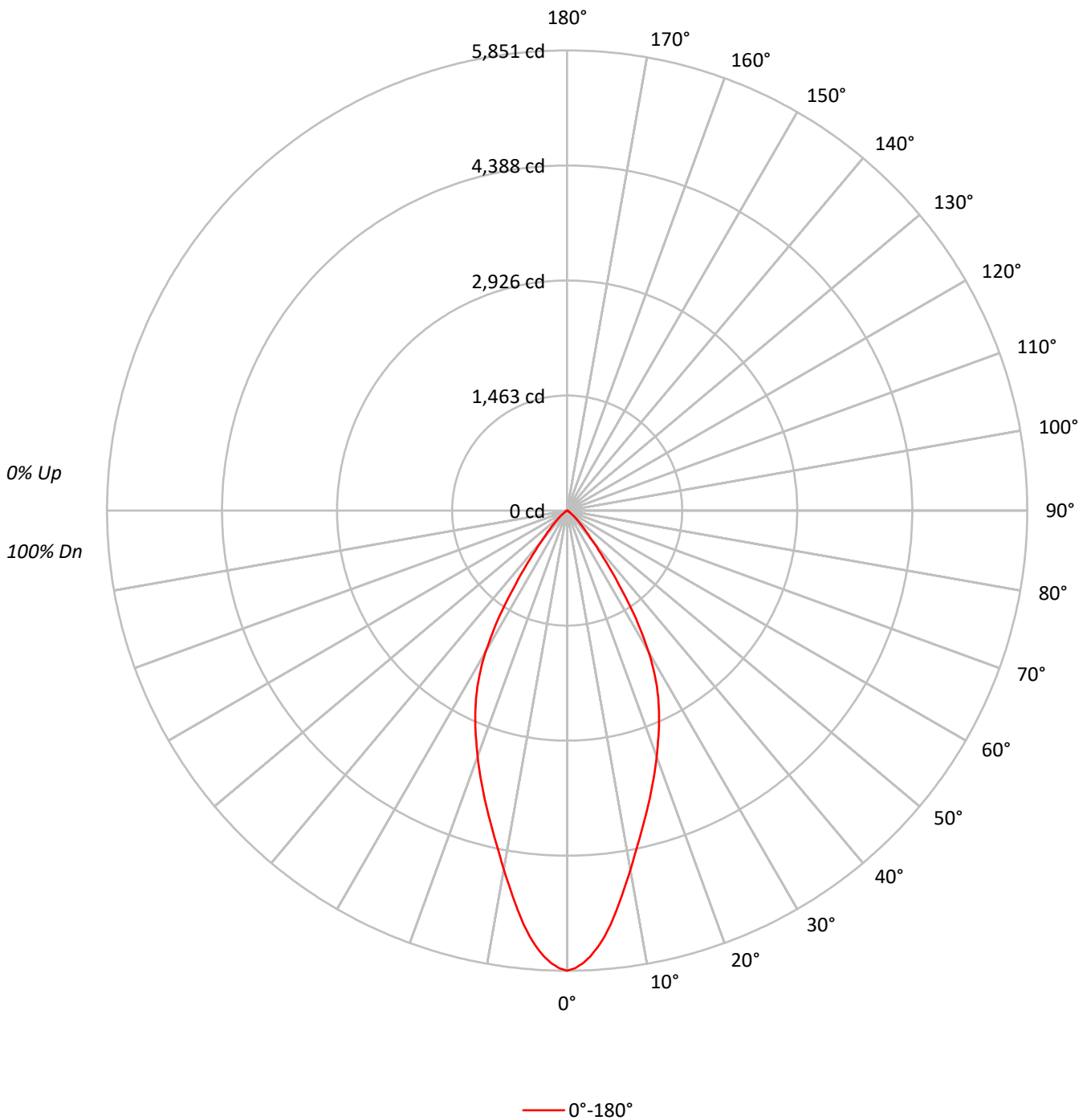
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P244312

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P244312

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBN0H

**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	114	111	109	106	111	109	107	105	105	103	101		101	100	98		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86		90	87	85		88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80		85	82	79		84	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	69	67
7	85	76	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61		69	64	61		68	64	61	59
9	77	68	62	58	76	67	62	58	66	61	58		65	61	58		64	60	57	56
10	74	64	59	55	73	64	58	55	63	58	55		62	58	54		61	57	54	53

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

	0°
0°	180426
5°	168294
10°	145069
15°	125548
20°	109213
25°	93859
30°	73749
35°	43027
40°	19853
45°	10274
50°	5152
55°	2505
60°	1277
65°	759
70°	352
75°	310
80°	231
85°	0



TEST NUMBER: P244312

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.0	12.8
10°-20°	1099.6	28.7
20°-30°	1250.2	32.6
30°-40°	734.2	19.2
40°-50°	197.0	5.1
50°-60°	46.8	1.2
60°-70°	10.7	0.3
70°-80°	2.4	0.1
80°-90°	0.2	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°	2841.8	74.1
0°-40°	3576.0	93.3
0°-60°	3819.8	99.7
0°-90°	3833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5851	
5°	5437	492
15°	3933	1100
25°	2759	1250
35°	1143	734
45°	236	197
55°	47	47
65°	10	11
75°	3	2
85°	0	0
90°	0	



TEST NUMBER: P244312

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBN0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5851.1
1°	5818.7
2°	5759.2
3°	5675.1
4°	5566.3
5°	5436.9
6°	5290.6
7°	5124.9
8°	4959.2
9°	4792.2
10°	4633.0
11°	4477.7
12°	4331.4
13°	4195.5
14°	4059.5
15°	3932.7
16°	3808.4
17°	3685.4
18°	3566.3
19°	3445.9
20°	3328.1
21°	3210.3
22°	3097.7
23°	2986.4
24°	2872.5
25°	2758.6
26°	2640.8
27°	2512.6
28°	2378.0
29°	2230.4
30°	2071.2
32.5°	1624.6
35°	1143.0
37.5°	753.4
40°	493.2
42.5°	340.5
45°	235.6
47.5°	161.8
50°	107.4
52.5°	69.9
55°	46.6
57.5°	31.1
60°	20.7
62.5°	14.2
65°	10.4



TEST NUMBER: P244312

CATALOG NUMBER: LSR8B40D010 EC8B40830 8LBN0H

**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	6.5
70°	3.9
72.5°	2.6
75°	2.6
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)