

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: P243873

Luminaire Tested: **LSR8B30D010 EC8B30827 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30827 8LBNOLI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2767.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

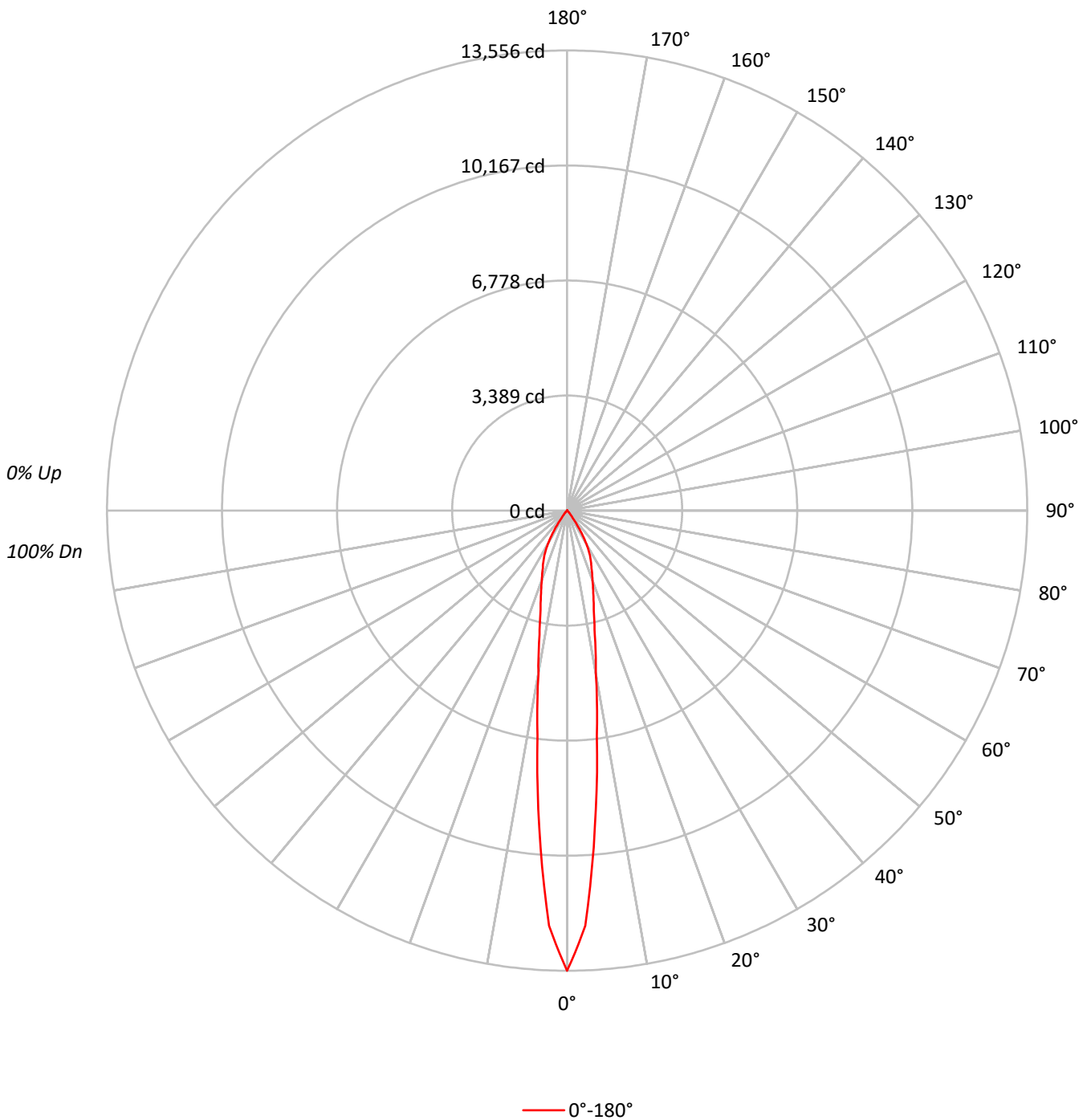
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P243873

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBN0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P243873

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBNOLI

**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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95				95
2	110	106	102	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91				91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87				87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83				83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79				79
6	94	87	82	79	93	86	82	78	85	81	78	83	80	77	82	79	77	76				76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72				72
8	88	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	70				70
9	85	77	72	69	84	76	72	69	75	71	68	75	71	68	74	70	68	67				67
10	82	74	69	66	81	73	69	66	73	69	66	72	68	66	71	68	65	64				64

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

	0°
0°	418032
5°	290343
10°	152787
15°	96669
20°	71839
25°	56480
30°	40663
35°	17448
40°	6082
45°	2333
50°	542
55°	204
60°	0
65°	277
70°	81
75°	226
80°	337
85°	0



TEST NUMBER: P243873

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBNOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.0	27.2
10°-20°	873.7	31.6
20°-30°	754.1	27.3
30°-40°	327.1	11.8
40°-50°	51.3	1.9
50°-60°	3.7	0.1
60°-70°	2.0	0.1
70°-80°	2.1	0.1
80°-90°	1.0	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°	2379.8	86.0
0°-40°	2706.9	97.8
0°-60°	2761.9	99.8
0°-90°	2767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13556	
5°	9380	752
15°	3028	874
25°	1660	754
35°	464	327
45°	54	51
55°	4	4
65°	4	2
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P243873

CATALOG NUMBER: LSR8B30D010 EC8B30827 8LBNOLI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13556.5
2.5°	12241.8
5°	9379.8
7.5°	6689.6
10°	4879.5
12.5°	3744.0
15°	3028.1
17.5°	2546.7
20°	2189.2
22.5°	1884.2
25°	1660.0
27.5°	1423.5
30°	1142.0
32.5°	793.9
35°	463.5
37.5°	259.0
40°	151.1
42.5°	93.8
45°	53.5
47.5°	43.2
50°	11.3
52.5°	5.6
55°	3.8
57.5°	1.9
60°	0.0
62.5°	0.9
65°	3.8
67.5°	2.8
70°	0.9
72.5°	4.7
75°	1.9
77.5°	0.0
80°	1.9
82.5°	0.9
85°	0.0
87.5°	1.9
90°	0.0

(END OF REPORT)