

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: P247040

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBN0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247040  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B1009727 8LBN0LI  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7210.0 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

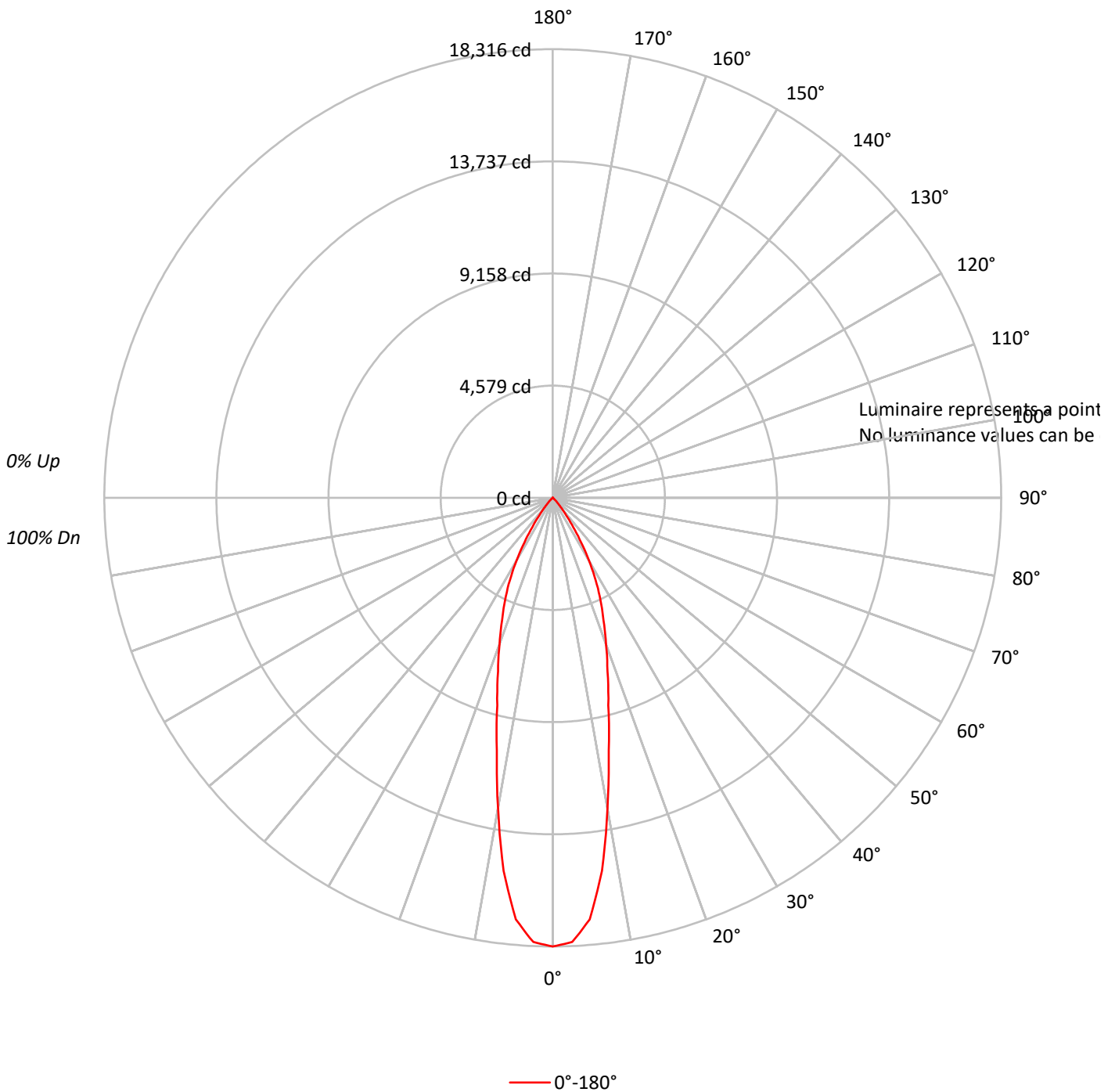
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247040

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBNOLI

### Luminous Intensity Polar Plot





TEST NUMBER: P247040

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBN0LI

**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	100	100	100		
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95	95		
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	90	90	90	90		
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	85	85	85	85	85		
4	101	94	90	86	99	93	89	85	91	87	84	89	86	83	87	85	83	81	81	81	81	81		
5	97	90	85	81	95	89	84	80	87	83	80	85	82	79	84	81	78	77	77	77	77	77		
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73	73	73	73	73		
7	89	81	76	72	88	81	76	72	79	75	72	78	74	72	77	74	71	70	70	70	70	70		
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67	67	67	67	67		
9	82	74	69	66	81	74	69	66	73	69	65	72	68	65	71	68	65	64	64	64	64	64		
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61	61	61	61	61		

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





TEST NUMBER: P247040

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBNOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1502.2	20.8
10°-20°	2484.3	34.5
20°-30°	2094.4	29.0
30°-40°	950.4	13.2
40°-50°	165.9	2.3
50°-60°	9.0	0.1
60°-70°	1.3	0.0
70°-80°	1.5	0.0
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°	6080.8	84.3
0°-40°	7031.2	97.5
0°-60°	7206.1	99.9
0°-90°	7210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18316	
5°	17276	###
15°	8769	2484
25°	4616	2094
35°	1460	950
45°	180	166
55°	7	9
65°	3	1
75°	0	2
85°	1	1
90°	0	



TEST NUMBER: P247040

CATALOG NUMBER: LSR8B100D010 EC8B1009727 8LBN0LI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18316.2
2.5°	18154.2
5°	17275.7
7.5°	15362.0
10°	12862.0
12.5°	10551.1
15°	8768.6
17.5°	7429.5
20°	6359.1
22.5°	5417.1
25°	4616.4
27.5°	3802.0
30°	2949.7
32.5°	2147.1
35°	1460.4
37.5°	896.7
40°	527.5
42.5°	309.4
45°	180.1
47.5°	107.7
50°	41.6
52.5°	6.3
55°	7.2
57.5°	6.3
60°	0.9
62.5°	0.9
65°	2.7
67.5°	0.0
70°	2.7
72.5°	4.5
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.9
87.5°	2.7
90°	0.0

(END OF REPORT)