

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: P249857

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B120D010 EC8B120927 8LBN0H  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE 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: 8698.5 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

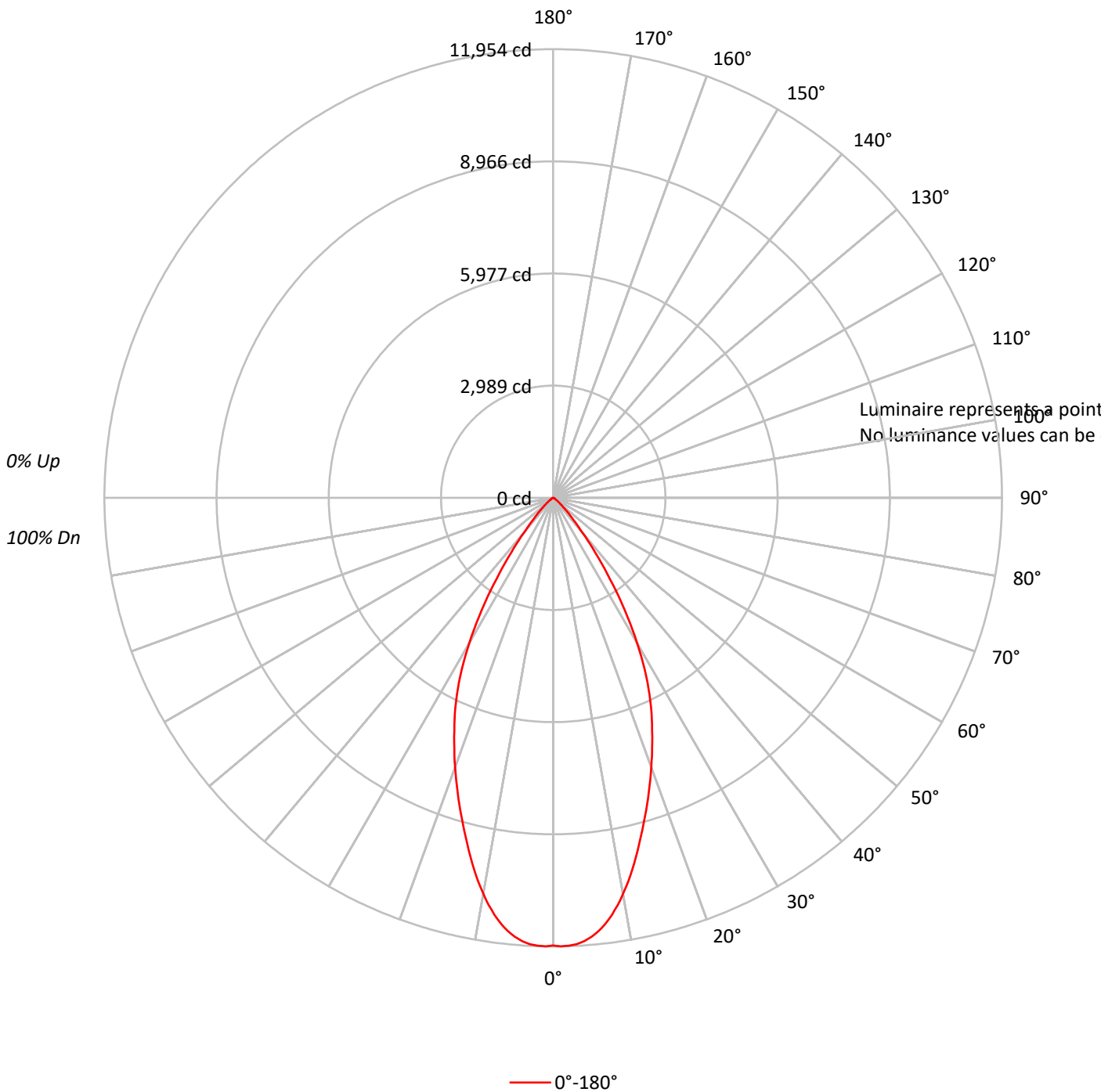
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249857

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249857

CATALOG NUMBER: LSR8B120D010 EC8B120927 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	103	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	85	83	82
4	98	91	85	81	96	89	84	81	87	83	80		85	82	79		83	80	78	76
5	93	85	79	75	92	84	79	75	82	78	74		81	77	74		79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69		76	72	69		75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65		72	68	65		71	67	64	63
8	81	71	65	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	57		64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54		62	57	54		61	57	54	53

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





TEST NUMBER: P249857

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1087.9	12.5
10°-20°	2554.1	29.4
20°-30°	2791.6	32.1
30°-40°	1661.2	19.1
40°-50°	455.7	5.2
50°-60°	103.2	1.2
60°-70°	31.9	0.4
70°-80°	9.7	0.1
80°-90°	3.2	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°	6433.6	74.0
0°-40°	8094.8	93.1
0°-60°	8653.7	99.5
0°-90°	8698.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8698.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11930	
5°	11739	###
15°	9166	2554
25°	6167	2792
35°	2629	1661
45°	533	456
55°	103	103
65°	32	32
75°	9	10
85°	3	3
90°	0	



TEST NUMBER: P249857

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBN0H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11930.5
1°	11954.1
2°	11939.4
3°	11909.9
4°	11842.2
5°	11739.3
6°	11606.7
7°	11430.1
8°	11224.1
9°	10985.6
10°	10717.8
11°	10432.2
12°	10126.1
13°	9811.1
14°	9484.4
15°	9166.5
16°	8854.4
17°	8548.3
18°	8242.2
19°	7936.1
20°	7638.8
22.5°	6891.1
25°	6166.9
27.5°	5369.2
30°	4483.1
32.5°	3532.4
35°	2628.7
37.5°	1828.0
40°	1212.8
42.5°	794.8
45°	532.8
47.5°	353.2
50°	235.5
52.5°	144.2
55°	103.0
57.5°	73.6
60°	55.9
62.5°	41.2
65°	32.4
67.5°	20.6
70°	14.7
72.5°	11.8
75°	8.8
77.5°	5.9
80°	5.9



TEST NUMBER: P249857

CATALOG NUMBER: LSR8B120D010 EC8B120927 8LBN0H

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.9
85°	2.9
87.5°	2.9
90°	0.0

(END OF REPORT)