

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: P249954

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100827 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8989.0 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

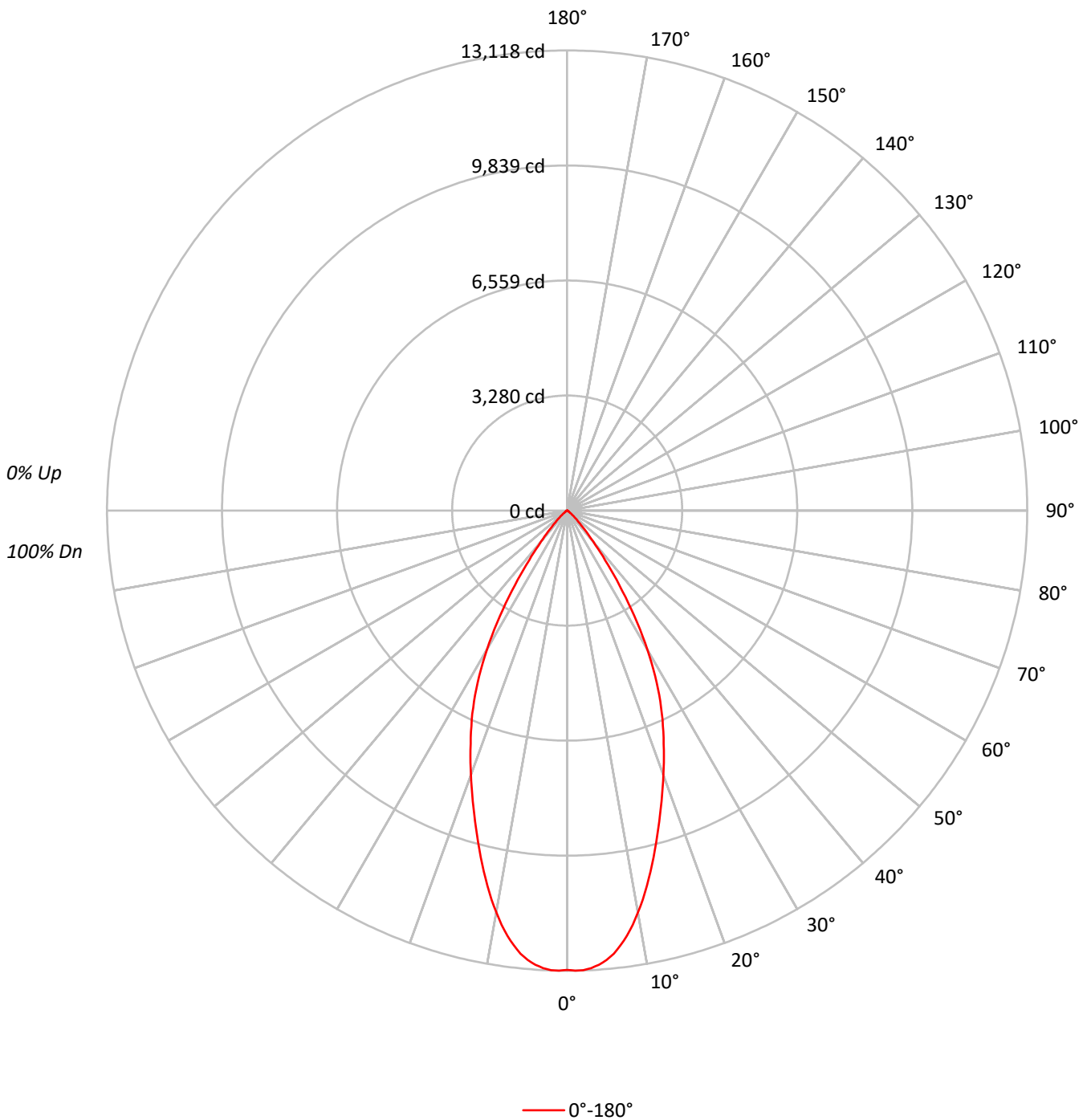
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20					
RC	80				70				50				30				10					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88	88	88	88	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82	82	82	82	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77	77	77	77	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72	72	72	72	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68	68	68	68	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	64	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60	60	60	60	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57	57	57	57	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54	54	54	54	54

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

	0°
0°	403731
5°	398107
10°	364212
15°	312706
20°	263330
25°	217571
30°	163196
35°	97276
40°	46344
45°	20191
50°	9153
55°	4032
60°	2313
65°	1372
70°	1416
75°	0
80°	550
85°	2229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1188.3	13.2
10°-20°	2726.4	30.3
20°-30°	2896.5	32.2
30°-40°	1652.6	18.4
40°-50°	409.7	4.6
50°-60°	80.6	0.9
60°-70°	24.3	0.3
70°-80°	5.7	0.1
80°-90°	4.7	0.1
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°	6811.3	75.8
0°-40°	8463.9	94.2
0°-60°	8954.2	99.6
0°-90°	8989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8989.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13093	
5°	12861	###
15°	9795	2726
25°	6395	2897
35°	2584	1653
45°	463	410
55°	75	81
65°	19	24
75°	0	6
85°	6	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13092.7
1°	13117.8
2°	13108.4
3°	13061.4
4°	12980.1
5°	12861.2
6°	12704.9
7°	12488.9
8°	12241.7
9°	11950.9
10°	11631.7
11°	11293.9
12°	10930.9
13°	10561.8
14°	10183.2
15°	9795.3
16°	9429.3
17°	9060.1
18°	8712.8
19°	8359.4
20°	8024.6
22.5°	7195.5
25°	6394.6
27.5°	5534.4
30°	4583.3
32.5°	3563.3
35°	2584.1
37.5°	1780.1
40°	1151.3
42.5°	729.0
45°	463.0
47.5°	303.5
50°	190.8
52.5°	115.8
55°	75.0
57.5°	59.5
60°	37.5
62.5°	34.4
65°	18.8
67.5°	18.8
70°	15.7
72.5°	9.4
75°	0.0
77.5°	3.1
80°	3.1



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	6.3
85°	6.3
87.5°	3.1
90°	0.0

(END OF REPORT)