

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: P249856

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBN0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249856  
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: LSR8B100D010 EC8B1009727 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: 6821.0 lumens  
Efficiency: N/A  
Efficacy: 64.2 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

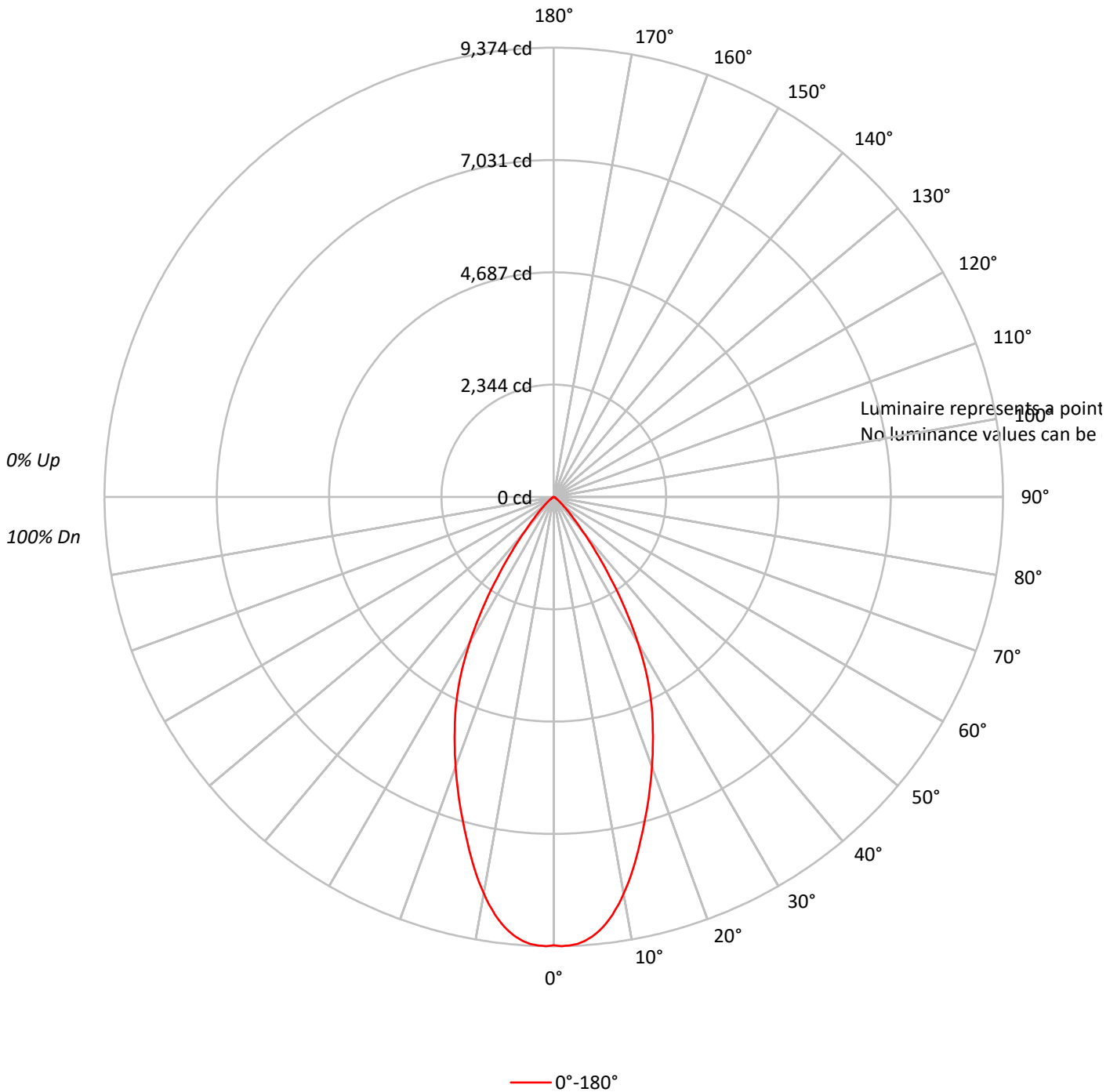
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249856

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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	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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	853.1	12.5
10°-20°	2002.8	29.4
20°-30°	2189.0	32.1
30°-40°	1302.6	19.1
40°-50°	357.3	5.2
50°-60°	81.0	1.2
60°-70°	25.0	0.4
70°-80°	7.6	0.1
80°-90°	2.5	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°	5045.0	74.0
0°-40°	6347.6	93.1
0°-60°	6785.9	99.5
0°-90°	6821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9355	
5°	9205	853
15°	7188	2003
25°	4836	2189
35°	2061	1303
45°	418	357
55°	81	81
65°	25	25
75°	7	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9355.4
1°	9373.9
2°	9362.4
3°	9339.3
4°	9286.2
5°	9205.4
6°	9101.5
7°	8963.0
8°	8801.5
9°	8614.5
10°	8404.4
11°	8180.5
12°	7940.5
13°	7693.5
14°	7437.3
15°	7188.0
16°	6943.3
17°	6703.2
18°	6463.2
19°	6223.1
20°	5990.0
22.5°	5403.7
25°	4835.8
27.5°	4210.3
30°	3515.5
32.5°	2769.9
35°	2061.3
37.5°	1433.4
40°	951.0
42.5°	623.2
45°	417.8
47.5°	277.0
50°	184.7
52.5°	113.1
55°	80.8
57.5°	57.7
60°	43.9
62.5°	32.3
65°	25.4
67.5°	16.2
70°	11.5
72.5°	9.2
75°	6.9
77.5°	4.6
80°	4.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	2.3
85°	2.3
87.5°	2.3
90°	0.0

(END OF REPORT)