

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: P249974

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249974  
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: LSR8B90D010 EC8B90840 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8251.1 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

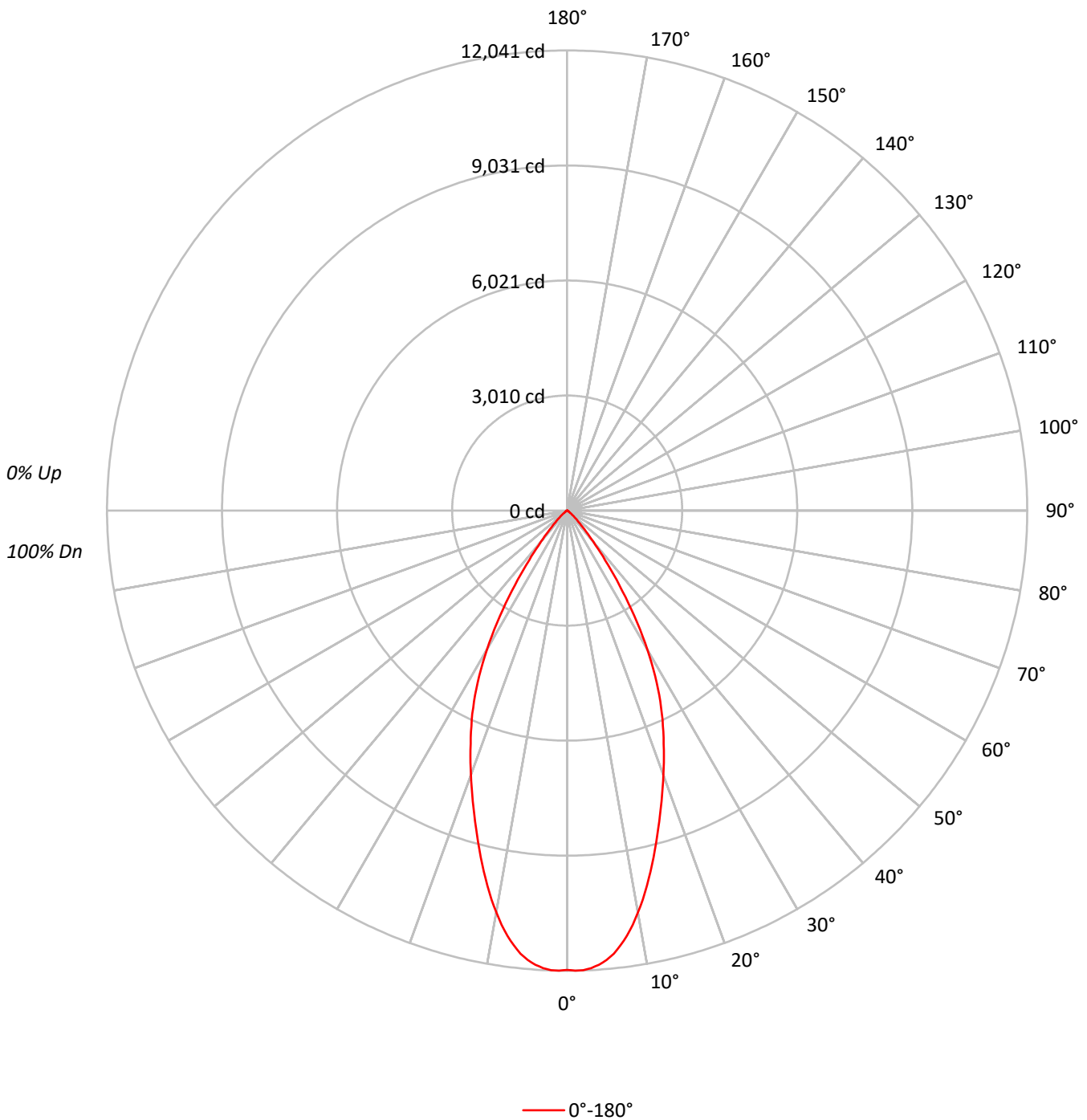
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	370585
5°	365422
10°	334309
15°	287033
20°	241711
25°	199708
30°	149797
35°	89288
40°	42540
45°	18534
50°	8405
55°	3704
60°	2122
65°	1262
70°	1298
75°	0
80°	515
85°	2052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1090.8	13.2
10°-20°	2502.6	30.3
20°-30°	2658.7	32.2
30°-40°	1516.9	18.4
40°-50°	376.1	4.6
50°-60°	74.0	0.9
60°-70°	22.3	0.3
70°-80°	5.3	0.1
80°-90°	4.3	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°	6252.1	75.8
0°-40°	7769.0	94.2
0°-60°	8219.1	99.6
0°-90°	8251.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8251.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	12018	
5°	11805	###
15°	8991	2503
25°	5870	2659
35°	2372	1517
45°	425	376
55°	69	74
65°	17	22
75°	0	5
85°	6	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	12017.8
1°	12040.8
2°	12032.2
3°	11989.1
4°	11914.5
5°	11805.3
6°	11661.8
7°	11463.6
8°	11236.7
9°	10969.7
10°	10676.7
11°	10366.7
12°	10033.5
13°	9694.7
14°	9347.2
15°	8991.1
16°	8655.1
17°	8316.3
18°	7997.5
19°	7673.1
20°	7365.8
22.5°	6604.7
25°	5869.6
27.5°	5080.0
30°	4207.0
32.5°	3270.7
35°	2371.9
37.5°	1633.9
40°	1056.8
42.5°	669.2
45°	425.0
47.5°	278.6
50°	175.2
52.5°	106.3
55°	68.9
57.5°	54.6
60°	34.4
62.5°	31.6
65°	17.3
67.5°	17.3
70°	14.4
72.5°	8.6
75°	0.0
77.5°	2.9
80°	2.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.8
85°	5.8
87.5°	2.9
90°	0.0

(END OF REPORT)