

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: P250009

Luminaire Tested: **LSR8B90D010 EC8B90940 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250009  
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 EC8B90940 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7397.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 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

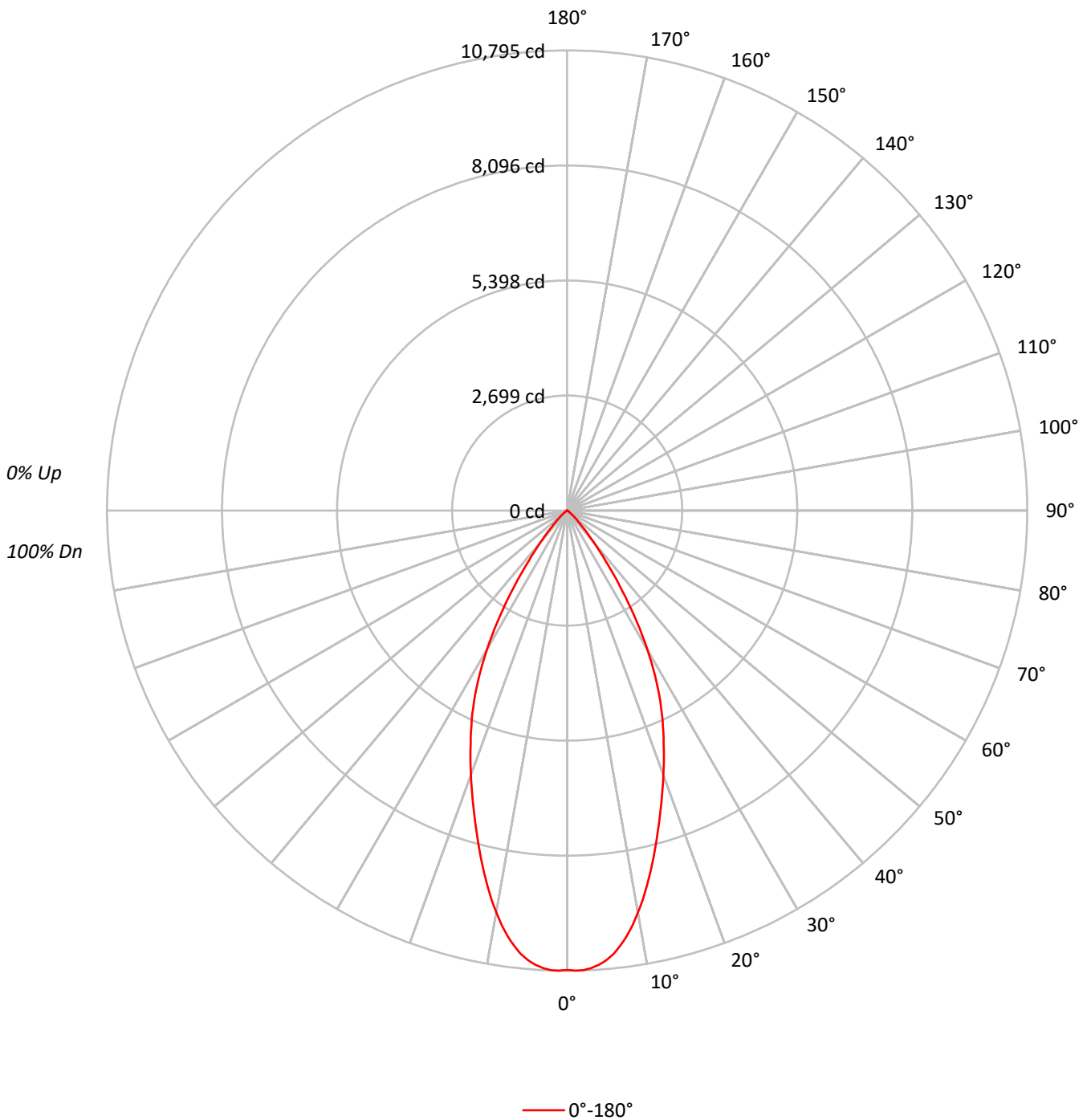
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	332227
5°	327600
10°	299706
15°	257324
20°	216693
25°	179038
30°	134291
35°	80047
40°	38137
45°	16615
50°	7532
55°	3317
60°	1906
65°	1131
70°	1163
75°	0
80°	462
85°	1840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	977.9	13.2
10°-20°	2243.6	30.3
20°-30°	2383.5	32.2
30°-40°	1359.9	18.4
40°-50°	337.2	4.6
50°-60°	66.3	0.9
60°-70°	20.0	0.3
70°-80°	4.7	0.1
80°-90°	3.9	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°	5605.0	75.8
0°-40°	6964.9	94.2
0°-60°	7368.3	99.6
0°-90°	7397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10774	
5°	10583	978
15°	8060	2244
25°	5262	2384
35°	2126	1360
45°	381	337
55°	62	66
65°	16	20
75°	0	5
85°	5	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10773.9
1°	10794.6
2°	10786.8
3°	10748.2
4°	10681.3
5°	10583.4
6°	10454.8
7°	10277.1
8°	10073.6
9°	9834.3
10°	9571.6
11°	9293.7
12°	8995.0
13°	8691.2
14°	8379.7
15°	8060.5
16°	7759.3
17°	7455.5
18°	7169.7
19°	6878.9
20°	6603.4
22.5°	5921.1
25°	5262.1
27.5°	4554.2
30°	3771.5
32.5°	2932.2
35°	2126.4
37.5°	1464.8
40°	947.4
42.5°	599.9
45°	381.0
47.5°	249.8
50°	157.0
52.5°	95.3
55°	61.7
57.5°	48.9
60°	30.9
62.5°	28.3
65°	15.5
67.5°	15.5
70°	12.9
72.5°	7.7
75°	0.0
77.5°	2.6
80°	2.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	5.2
85°	5.2
87.5°	2.6
90°	0.0

(END OF REPORT)