

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: P250730

Luminaire Tested: **LSR8B90D010 EC8B90840 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90840 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9345.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

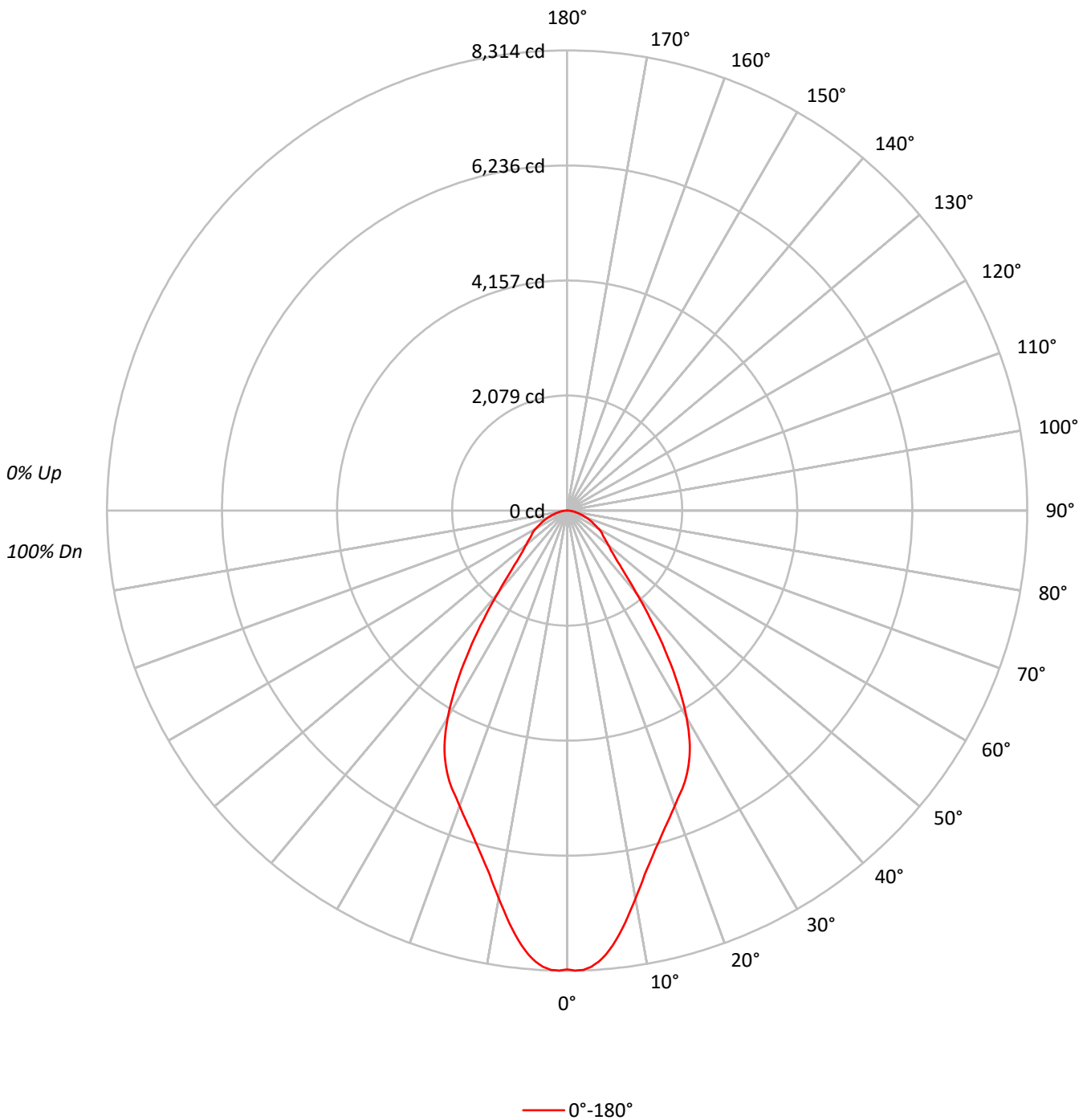
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	255618
5°	249143
10°	222735
15°	200161
20°	186404
25°	175609
30°	153547
35°	116332
40°	78141
45°	55061
50°	46692
55°	42590
60°	40352
65°	36300
70°	32665
75°	29309
80°	25927
85°	24873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	736.7	7.9
10°-20°	1768.2	18.9
20°-30°	2343.2	25.1
30°-40°	1921.4	20.6
40°-50°	1023.3	11.0
50°-60°	720.3	7.7
60°-70°	496.7	5.3
70°-80°	258.7	2.8
80°-90°	76.5	0.8
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°	4848.1	51.9
0°-40°	6769.5	72.4
0°-60°	8513.1	91.1
0°-90°	9345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9345.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8290	
5°	8049	737
15°	6270	1768
25°	5161	2343
35°	3090	1921
45°	1263	1023
55°	792	720
65°	498	497
75°	246	259
85°	70	76
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8289.5
1°	8313.8
2°	8303.0
3°	8254.3
4°	8170.5
5°	8048.8
6°	7897.5
7°	7716.3
8°	7521.6
9°	7313.4
10°	7113.4
11°	6921.4
12°	6726.7
13°	6564.5
14°	6410.4
15°	6269.9
16°	6137.4
17°	6015.7
18°	5902.1
19°	5788.6
20°	5680.4
21°	5575.0
22°	5483.1
23°	5388.4
24°	5277.6
25°	5161.3
26°	5028.9
27°	4880.2
28°	4712.5
29°	4526.0
30°	4312.3
31°	4088.0
32°	3852.8
33°	3601.3
34°	3349.9
35°	3090.3
37.5°	2476.6
40°	1941.2
42.5°	1533.0
45°	1262.6
47.5°	1084.2
50°	973.3
52.5°	876.0
55°	792.2
57.5°	740.8



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	654.3
62.5°	570.5
65°	497.5
67.5°	432.6
70°	362.3
72.5°	302.8
75°	246.0
77.5°	178.4
80°	146.0
82.5°	105.4
85°	70.3
87.5°	32.4
90°	0.0

(END OF REPORT)