

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: P250625

Luminaire Tested: **LSR8B90D010 EC8B90827 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90827 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8175.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

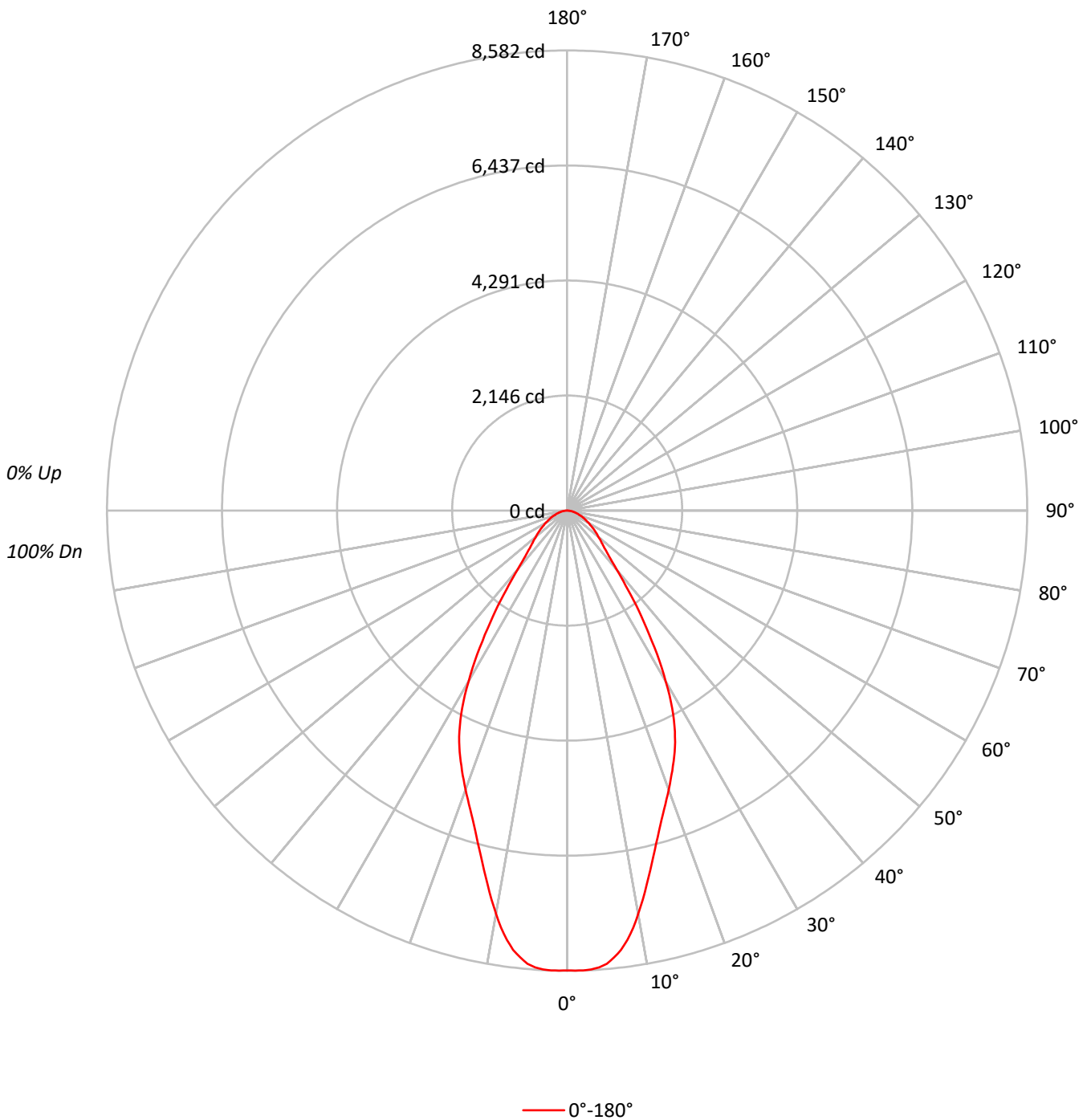
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	106	103	109	106	104	101	102	100	98		98	97	95		95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71		78	74	70		76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65		73	68	64		71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60		68	63	59		67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55		64	59	55		63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51		60	55	51		59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48		57	51	48		56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45		54	48	45		53	48	45	43

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

	0°
0°	264474
5°	262574
10°	239233
15°	205103
20°	181725
25°	162149
30°	130958
35°	90930
40°	57648
45°	42772
50°	36541
55°	32117
60°	28635
65°	25691
70°	22107
75°	20207
80°	18983
85°	16629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	782.9	9.6
10°-20°	1806.5	22.1
20°-30°	2153.1	26.3
30°-40°	1519.8	18.6
40°-50°	784.9	9.6
50°-60°	538.6	6.6
60°-70°	350.1	4.3
70°-80°	183.3	2.2
80°-90°	55.7	0.7
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°	4742.5	58.0
0°-40°	6262.3	76.6
0°-60°	7585.8	92.8
0°-90°	8175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8175.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8577	
5°	8483	783
15°	6425	1807
25°	4766	2153
35°	2416	1520
45°	981	785
55°	597	539
65°	352	350
75°	170	183
85°	47	56
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8576.7
1°	8581.9
2°	8581.9
3°	8568.8
4°	8540.2
5°	8482.7
6°	8381.0
7°	8255.8
8°	8083.6
9°	7875.0
10°	7640.3
11°	7392.4
12°	7134.1
13°	6886.4
14°	6646.4
15°	6424.7
16°	6218.6
17°	6028.2
18°	5856.0
19°	5694.3
20°	5537.8
21°	5383.9
22°	5232.6
23°	5081.3
24°	4927.4
25°	4765.7
26°	4583.0
27°	4384.8
28°	4168.3
29°	3938.8
30°	3677.9
31°	3424.9
32°	3166.6
33°	2900.6
34°	2655.4
35°	2415.5
37.5°	1859.9
40°	1432.1
42.5°	1153.0
45°	980.8
47.5°	858.2
50°	761.7
52.5°	678.2
55°	597.4
57.5°	524.3



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	464.3
62.5°	404.3
65°	352.1
67.5°	305.2
70°	245.2
72.5°	211.3
75°	169.6
77.5°	138.2
80°	106.9
82.5°	78.3
85°	47.0
87.5°	26.0
90°	0.0

(END OF REPORT)