

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: P250723

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250723  
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 EC8B90835 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9407.0 lumens  
Efficiency: N/A  
Efficacy: 109.3 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

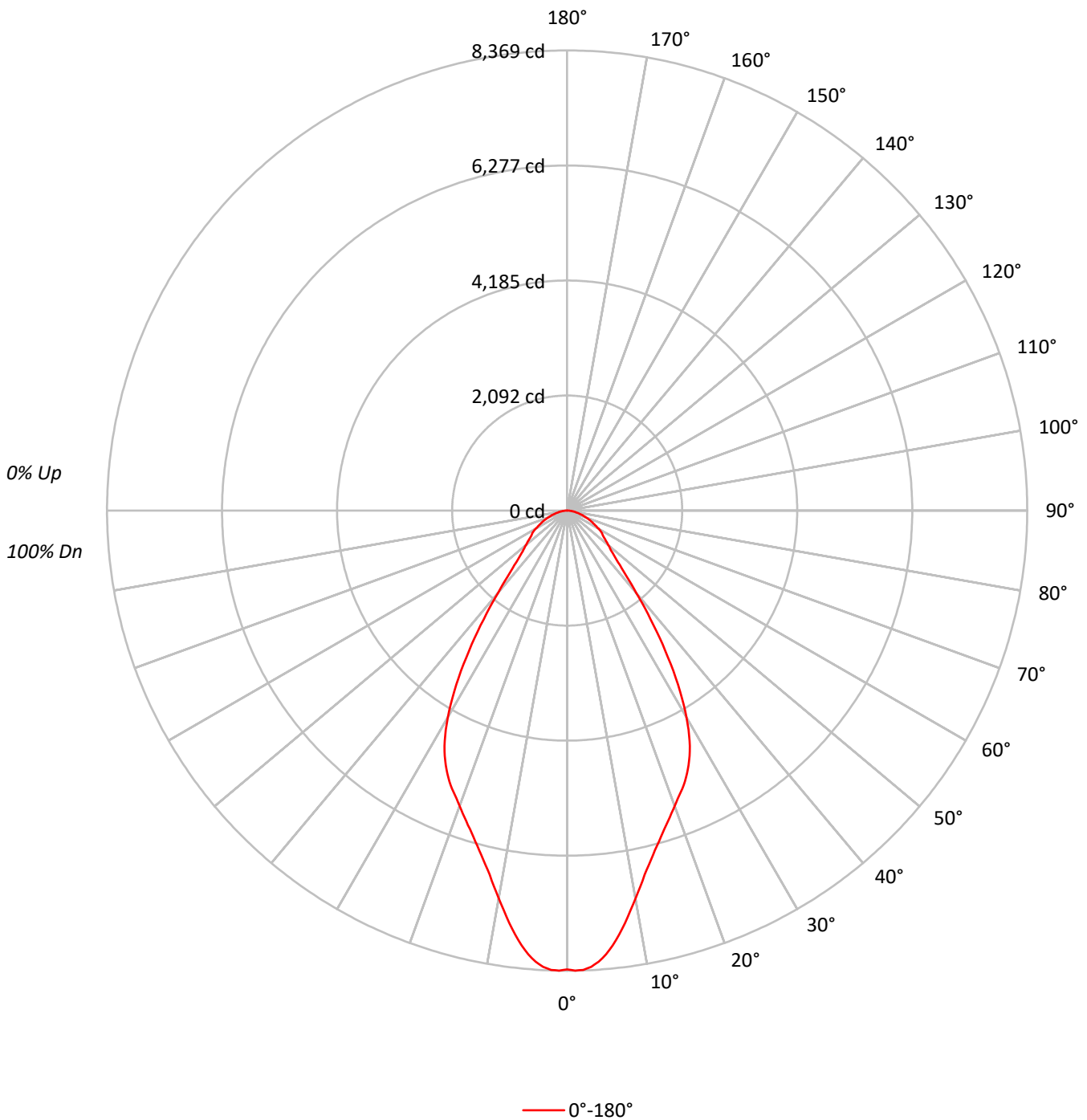
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71				71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

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

	0°
0°	257314
5°	250796
10°	224213
15°	201489
20°	187641
25°	176776
30°	154569
35°	117104
40°	78660
45°	55427
50°	47004
55°	42875
60°	40618
65°	36541
70°	32881
75°	29512
80°	26104
85°	25050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.6	7.9
10°-20°	1779.9	18.9
20°-30°	2358.7	25.1
30°-40°	1934.2	20.6
40°-50°	1030.2	11.0
50°-60°	725.1	7.7
60°-70°	500.0	5.3
70°-80°	260.4	2.8
80°-90°	77.0	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°	4880.3	51.9
0°-40°	6814.4	72.4
0°-60°	8569.6	91.1
0°-90°	9407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8344	
5°	8102	742
15°	6312	1780
25°	5196	2359
35°	3111	1934
45°	1271	1030
55°	798	725
65°	501	500
75°	248	260
85°	71	77
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8344.5
1°	8369.0
2°	8358.1
3°	8309.1
4°	8224.8
5°	8102.2
6°	7949.9
7°	7767.5
8°	7571.5
9°	7362.0
10°	7160.6
11°	6967.3
12°	6771.4
13°	6608.1
14°	6453.0
15°	6311.5
16°	6178.1
17°	6055.6
18°	5941.3
19°	5827.0
20°	5718.1
21°	5612.0
22°	5519.5
23°	5424.2
24°	5312.6
25°	5195.6
26°	5062.2
27°	4912.5
28°	4743.8
29°	4556.0
30°	4341.0
31°	4115.1
32°	3878.3
33°	3625.2
34°	3372.1
35°	3110.8
37.5°	2493.0
40°	1954.1
42.5°	1543.2
45°	1271.0
47.5°	1091.4
50°	979.8
52.5°	881.8
55°	797.5
57.5°	745.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	658.6
62.5°	574.2
65°	500.8
67.5°	435.5
70°	364.7
72.5°	304.8
75°	247.7
77.5°	179.6
80°	147.0
82.5°	106.1
85°	70.8
87.5°	32.6
90°	0.0

(END OF REPORT)