

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: P247327

Luminaire Tested: **LSR8B90D010 EC8B909727 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909727 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6243.0 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

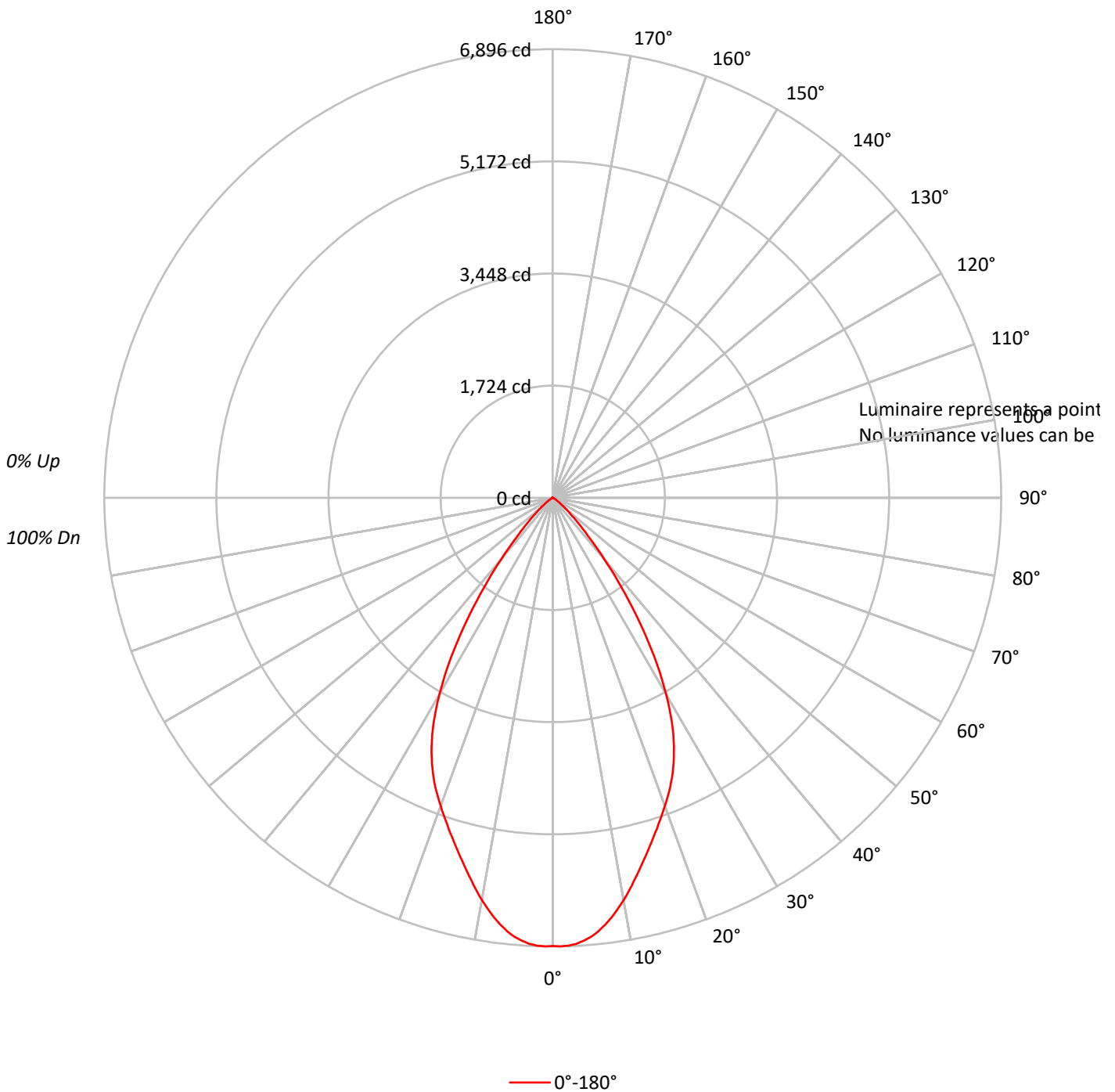
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74
5	92	83	77	73	90	82	76	72	80	75	72	79	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	75	70	66	74	69	66	73	69	66	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60
8	78	68	62	58	77	68	62	58	67	61	58	66	61	57	65	60	57	56
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	60	55	51	60	54	51	59	54	51	58	54	50	49

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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.2	10.1
10°-20°	1580.2	25.3
20°-30°	1994.8	32.0
30°-40°	1435.0	23.0
40°-50°	474.9	7.6
50°-60°	103.4	1.7
60°-70°	21.3	0.3
70°-80°	2.1	0.0
80°-90°	1.1	0.0
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°	4205.2	67.4
0°-40°	5640.2	90.3
0°-60°	6218.5	99.6
0°-90°	6243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6243.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6887	
5°	6772	630
15°	5629	1580
25°	4406	1995
35°	2312	1435
45°	558	475
55°	101	103
65°	19	21
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6886.7
1°	6896.3
2°	6888.2
3°	6865.6
4°	6823.3
5°	6772.1
6°	6701.6
7°	6609.9
8°	6508.7
9°	6398.0
10°	6276.3
11°	6152.0
12°	6016.7
13°	5886.3
14°	5755.1
15°	5629.2
16°	5505.4
17°	5386.6
18°	5268.8
19°	5155.6
20°	5041.6
21°	4924.8
22°	4810.7
23°	4686.7
24°	4552.9
25°	4405.9
26°	4251.7
27°	4079.8
28°	3898.2
29°	3696.3
30°	3486.0
31°	3264.9
32°	3032.1
33°	2787.9
34°	2549.0
35°	2312.5
37.5°	1736.6
40°	1230.6
42.5°	833.7
45°	557.5
47.5°	374.0
50°	249.9
52.5°	150.9
55°	101.2
57.5°	70.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	41.8
62.5°	28.6
65°	19.1
67.5°	17.2
70°	1.6
72.5°	3.9
75°	1.6
77.5°	1.6
80°	0.0
82.5°	3.9
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)