

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: P247331

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBM0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247331  
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 EC8B90930 8LBM0WMH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7404.2 lumens  
Efficiency: N/A  
Efficacy: 86.0 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

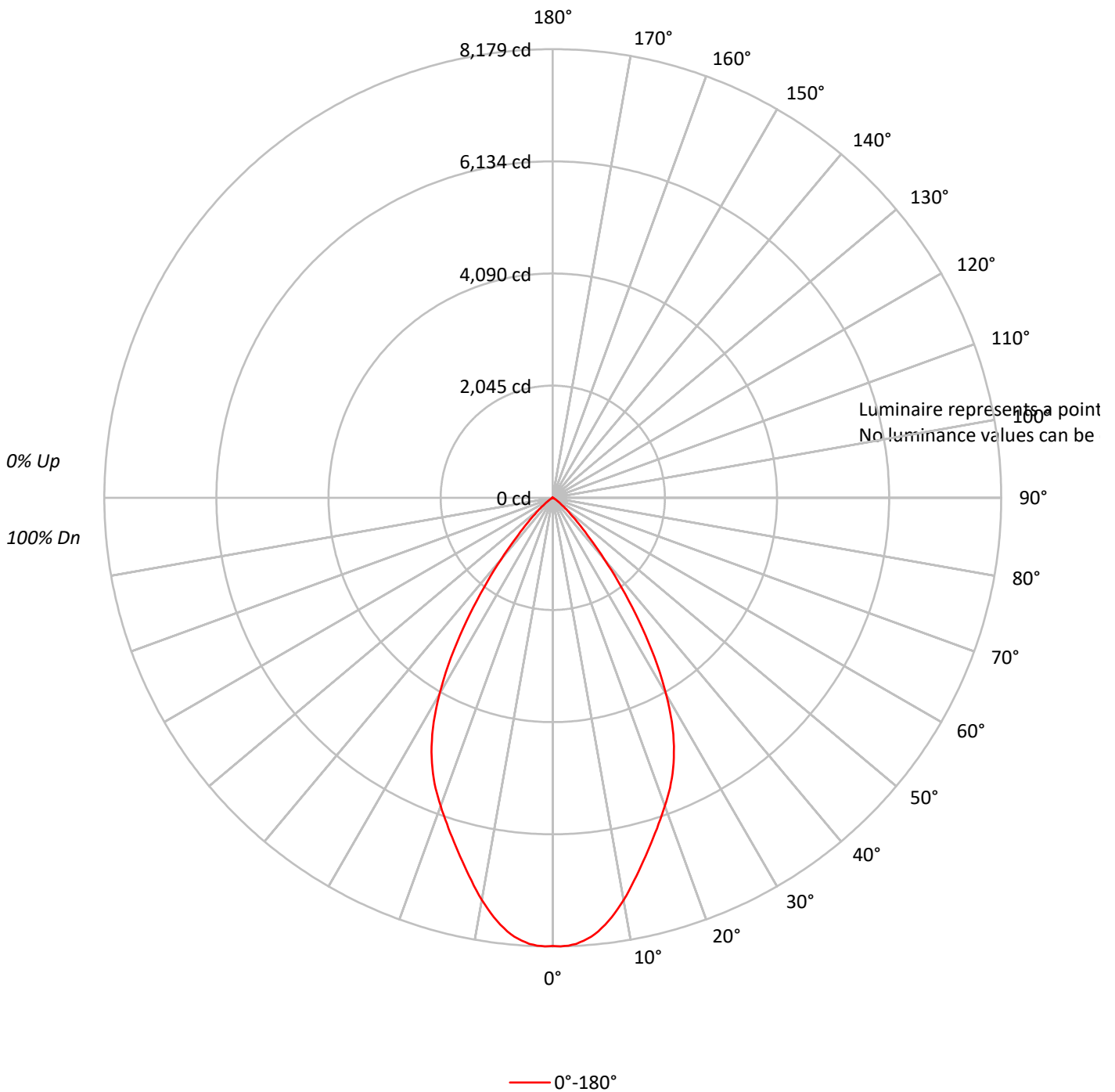
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247331

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBM0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P247331

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBM0WMH

**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):**





TEST NUMBER: P247331

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBM0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.4	10.1
10°-20°	1874.1	25.3
20°-30°	2365.8	32.0
30°-40°	1701.9	23.0
40°-50°	563.3	7.6
50°-60°	122.7	1.7
60°-70°	25.2	0.3
70°-80°	2.5	0.0
80°-90°	1.3	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°	4987.4	67.4
0°-40°	6689.2	90.3
0°-60°	7375.2	99.6
0°-90°	7404.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7404.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8168	
5°	8032	747
15°	6676	1874
25°	5225	2366
35°	2742	1702
45°	661	563
55°	120	123
65°	23	25
75°	2	2
85°	0	1
90°	0	



TEST NUMBER: P247331

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBM0WMH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8167.6
1°	8179.0
2°	8169.5
3°	8142.6
4°	8092.5
5°	8031.6
6°	7948.1
7°	7839.4
8°	7719.3
9°	7588.0
10°	7443.7
11°	7296.3
12°	7135.8
13°	6981.1
14°	6825.5
15°	6676.3
16°	6529.4
17°	6388.5
18°	6248.8
19°	6114.5
20°	5979.3
21°	5840.7
22°	5705.6
23°	5558.4
24°	5399.7
25°	5225.4
26°	5042.5
27°	4838.7
28°	4623.2
29°	4383.9
30°	4134.5
31°	3872.2
32°	3596.1
33°	3306.4
34°	3023.1
35°	2742.5
37.5°	2059.6
40°	1459.5
42.5°	988.7
45°	661.2
47.5°	443.6
50°	296.4
52.5°	179.0
55°	120.1
57.5°	83.5



TEST NUMBER: P247331

CATALOG NUMBER: LSR8B90D010 EC8B90930 8LBM0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
60°	49.5
62.5°	34.0
65°	22.6
67.5°	20.4
70°	1.9
72.5°	4.7
75°	1.9
77.5°	1.9
80°	0.0
82.5°	4.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)