

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: P250030

Luminaire Tested: **LSR8B90D010 EC8B909730 8LBNOWMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B909730 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6118.0 lumens  
Efficiency: N/A  
Efficacy: 71.1 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

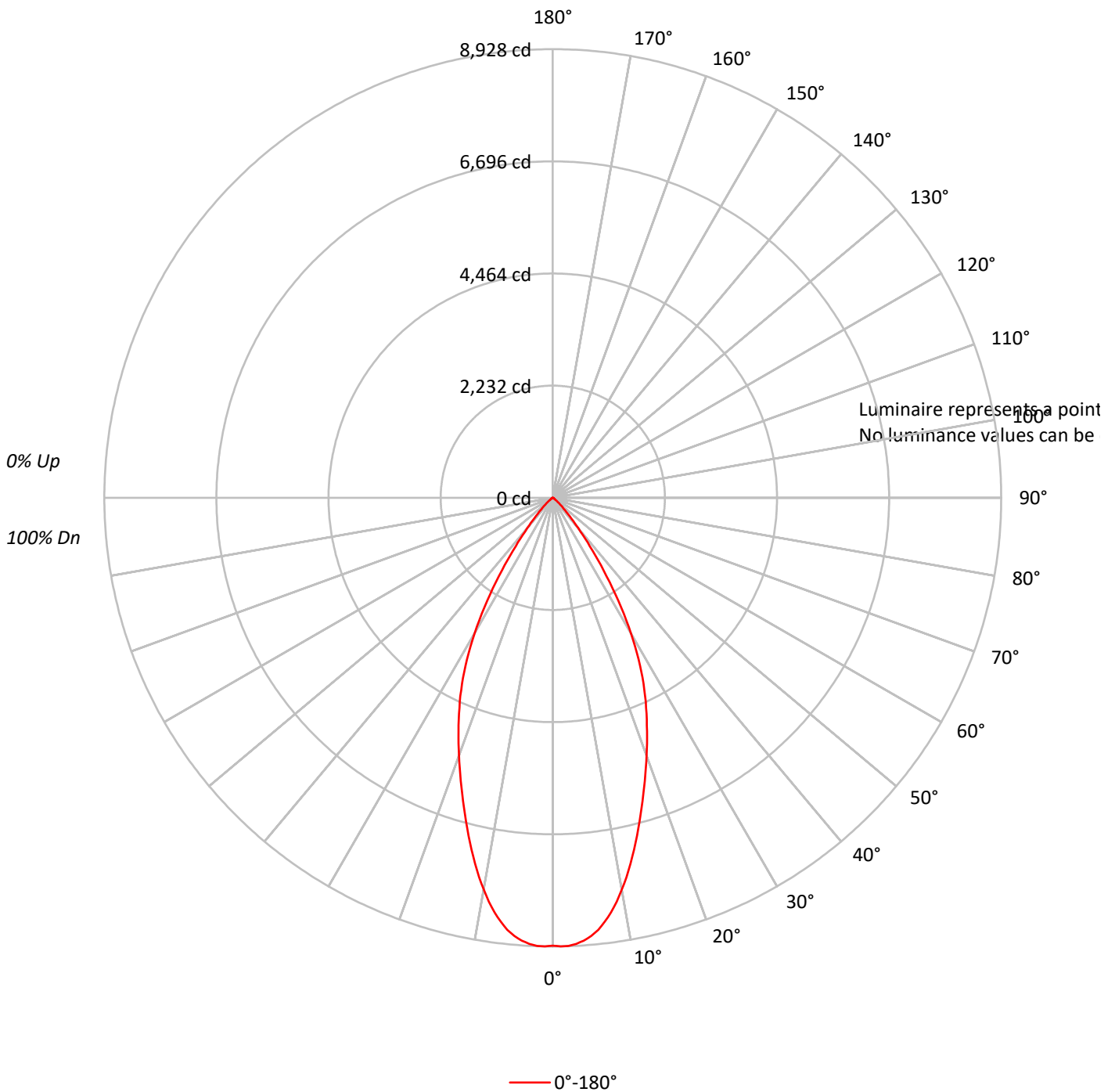
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250030

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBN0WMH

### Luminous Intensity Polar Plot





TEST NUMBER: P250030

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBN0WMH

**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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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





TEST NUMBER: P250030

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBN0WMH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.8	13.2
10°-20°	1855.6	30.3
20°-30°	1971.4	32.2
30°-40°	1124.8	18.4
40°-50°	278.9	4.6
50°-60°	54.8	0.9
60°-70°	16.5	0.3
70°-80°	3.9	0.1
80°-90°	3.2	0.1
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°	4635.8	75.8
0°-40°	5760.6	94.2
0°-60°	6094.3	99.6
0°-90°	6118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6118.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8911	
5°	8753	809
15°	6667	1856
25°	4352	1971
35°	1759	1125
45°	315	279
55°	51	55
65°	13	17
75°	0	4
85°	4	3
90°	0	



TEST NUMBER: P250030

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBN0WMH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	8911.0
1°	8928.1
2°	8921.7
3°	8889.7
4°	8834.4
5°	8753.4
6°	8647.0
7°	8500.1
8°	8331.8
9°	8133.9
10°	7916.6
11°	7686.8
12°	7439.7
13°	7188.4
14°	6930.8
15°	6666.7
16°	6417.6
17°	6166.4
18°	5930.0
19°	5689.5
20°	5461.6
22.5°	4897.3
25°	4352.2
27.5°	3766.7
30°	3119.4
32.5°	2425.2
35°	1758.8
37.5°	1211.5
40°	783.6
42.5°	496.2
45°	315.1
47.5°	206.6
50°	129.9
52.5°	78.8
55°	51.1
57.5°	40.5
60°	25.5
62.5°	23.4
65°	12.8
67.5°	12.8
70°	10.7
72.5°	6.4
75°	0.0
77.5°	2.1
80°	2.1



TEST NUMBER: P250030

CATALOG NUMBER: LSR8B90D010 EC8B909730 8LBN0WMH

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	4.3
85°	4.3
87.5°	2.1
90°	0.0

(END OF REPORT)