

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: P251149

Luminaire Tested: **LSR8B70D010 EC8B709727 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B70D010 EC8B709727 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4890.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

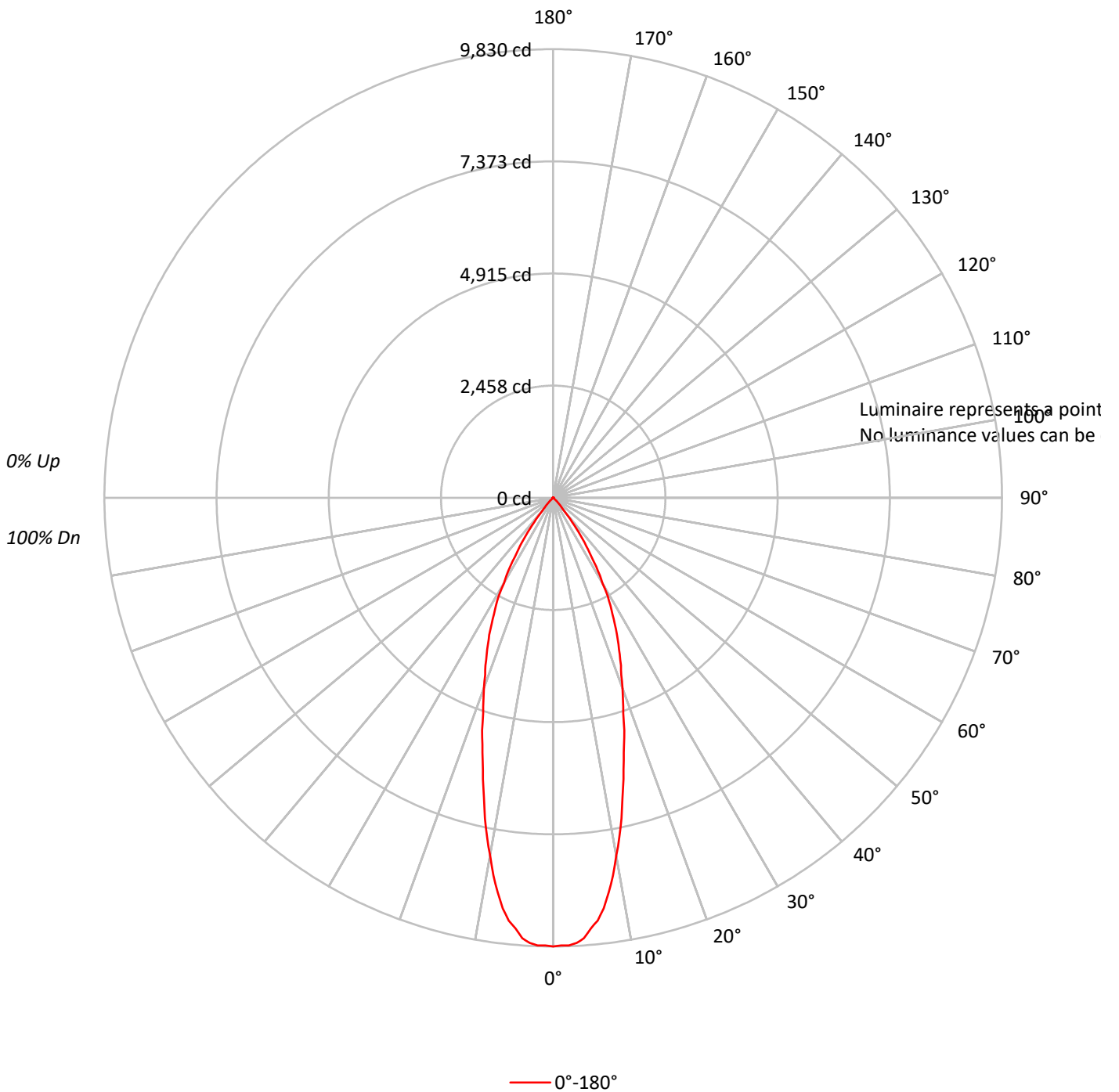
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251149

CATALOG NUMBER: LSR8B70D010 EC8B709727 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P251149

CATALOG NUMBER: LSR8B70D010 EC8B709727 8LBN0WH

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P251149

CATALOG NUMBER: LSR8B70D010 EC8B709727 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.5	17.6
10°-20°	1663.6	34.0
20°-30°	1497.8	30.6
30°-40°	741.0	15.2
40°-50°	112.7	2.3
50°-60°	4.6	0.1
60°-70°	6.0	0.1
70°-80°	2.2	0.0
80°-90°	3.5	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°	4019.9	82.2
0°-40°	4760.9	97.4
0°-60°	4878.3	99.8
0°-90°	4890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4890.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9830	
5°	9470	859
15°	5960	1664
25°	3312	1498
35°	1200	741
45°	124	113
55°	2	5
65°	3	6
75°	3	2
85°	5	3
90°	0	



TEST NUMBER: P251149

CATALOG NUMBER: LSR8B70D010 EC8B709727 8LBN0WH

CANDELA DISTRIBUTION (FULL):

0°	
0°	9830.1
1°	9809.6
2°	9814.7
3°	9765.2
4°	9674.8
5°	9470.1
6°	9313.1
7°	9064.0
8°	8729.5
9°	8381.4
10°	7961.6
11°	7586.3
12°	7183.6
13°	6738.2
14°	6354.3
15°	5960.1
16°	5624.0
17°	5327.1
18°	4962.0
19°	4694.0
20°	4431.3
21°	4158.3
22°	3958.6
23°	3726.6
24°	3513.3
25°	3311.9
26°	3074.7
27°	2861.5
28°	2670.4
29°	2460.5
30°	2158.5
31°	1987.9
32°	1772.9
33°	1537.4
34°	1358.2
35°	1199.5
37.5°	759.3
40°	343.0
42.5°	233.8
45°	124.5
47.5°	69.9
50°	1.7
52.5°	6.8
55°	1.7
57.5°	10.3



TEST NUMBER: P251149

CATALOG NUMBER: LSR8B70D010 EC8B709727 8LBN0WH

CANDELA DISTRIBUTION (continued):

	0°
60°	1.7
62.5°	8.6
65°	3.4
67.5°	8.6
70°	5.1
72.5°	1.7
75°	3.4
77.5°	0.0
80°	1.7
82.5°	6.8
85°	5.1
87.5°	0.0
90°	0.0

(END OF REPORT)