

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: P250108

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250108
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: LSR8B100D010 EC8B100927 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: 7916.6 lumens
Efficiency: N/A
Efficacy: 74.5 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

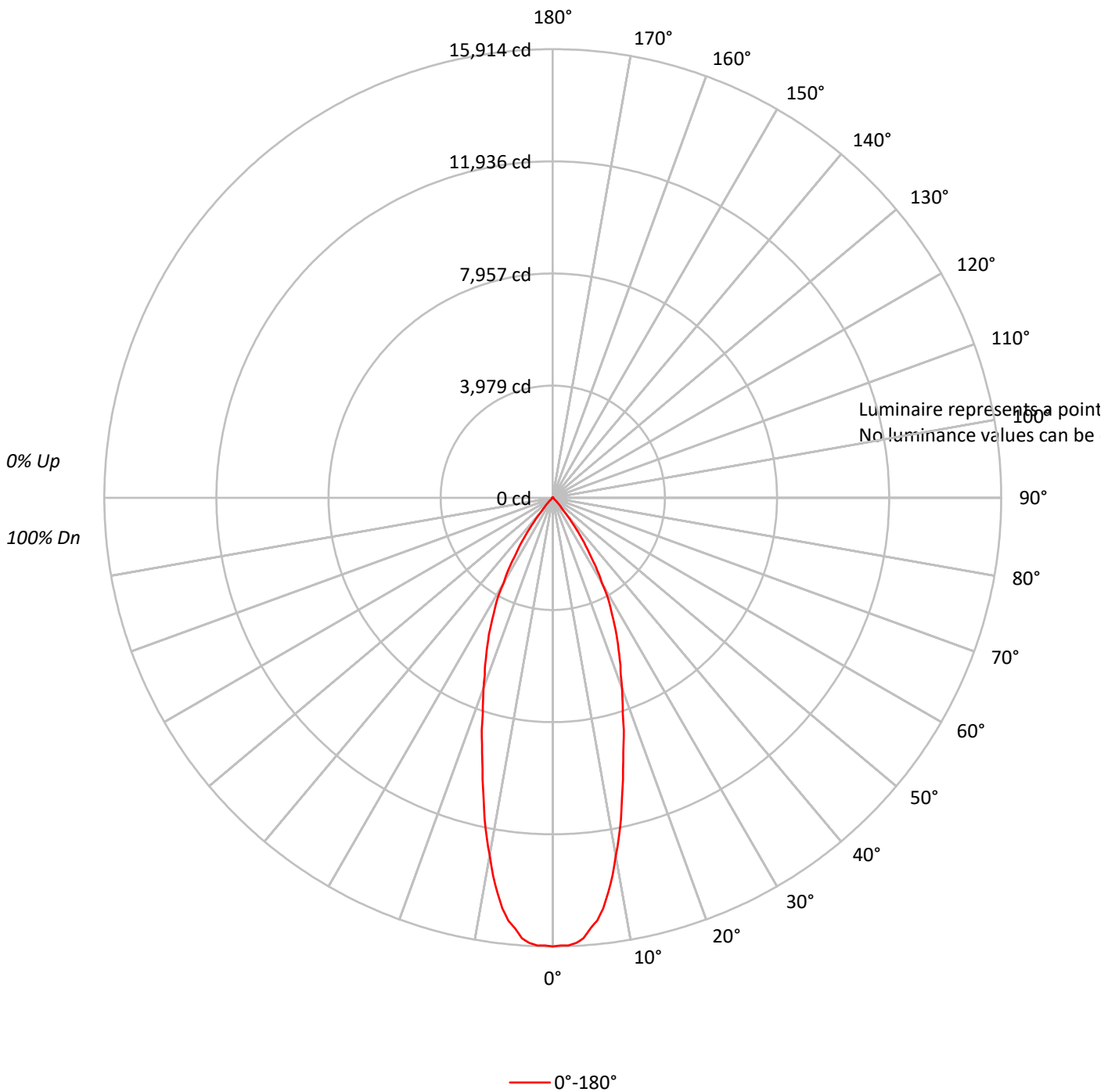
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1389.9	17.6
10°-20°	2693.3	34.0
20°-30°	2424.8	30.6
30°-40°	1199.7	15.2
40°-50°	182.5	2.3
50°-60°	7.5	0.1
60°-70°	9.6	0.1
70°-80°	3.6	0.0
80°-90°	5.7	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°	6508.0	82.2
0°-40°	7707.7	97.4
0°-60°	7897.7	99.8
0°-90°	7916.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7916.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15914	
5°	15332	###
15°	9649	2693
25°	5362	2425
35°	1942	1200
45°	202	182
55°	3	8
65°	6	10
75°	6	4
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15914.4
1°	15881.2
2°	15889.4
3°	15809.3
4°	15662.9
5°	15331.5
6°	15077.4
7°	14674.0
8°	14132.6
9°	13569.0
10°	12889.4
11°	12281.7
12°	11629.8
13°	10908.8
14°	10287.2
15°	9649.1
16°	9104.8
17°	8624.2
18°	8033.1
19°	7599.4
20°	7174.0
21°	6732.0
22°	6408.8
23°	6033.2
24°	5687.8
25°	5361.9
26°	4977.8
27°	4632.6
28°	4323.2
29°	3983.4
30°	3494.5
31°	3218.3
32°	2870.1
33°	2489.0
34°	2198.8
35°	1942.0
37.5°	1229.2
40°	555.3
42.5°	378.4
45°	201.6
47.5°	113.2
50°	2.8
52.5°	11.1
55°	2.8
57.5°	16.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.8
62.5°	13.8
65°	5.5
67.5°	13.8
70°	8.3
72.5°	2.8
75°	5.5
77.5°	0.0
80°	2.8
82.5°	11.1
85°	8.3
87.5°	0.0
90°	0.0

(END OF REPORT)