

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: P250094

Luminaire Tested: **LSR8B100D010 EC8B100940 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250094
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 EC8B100940 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9001.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

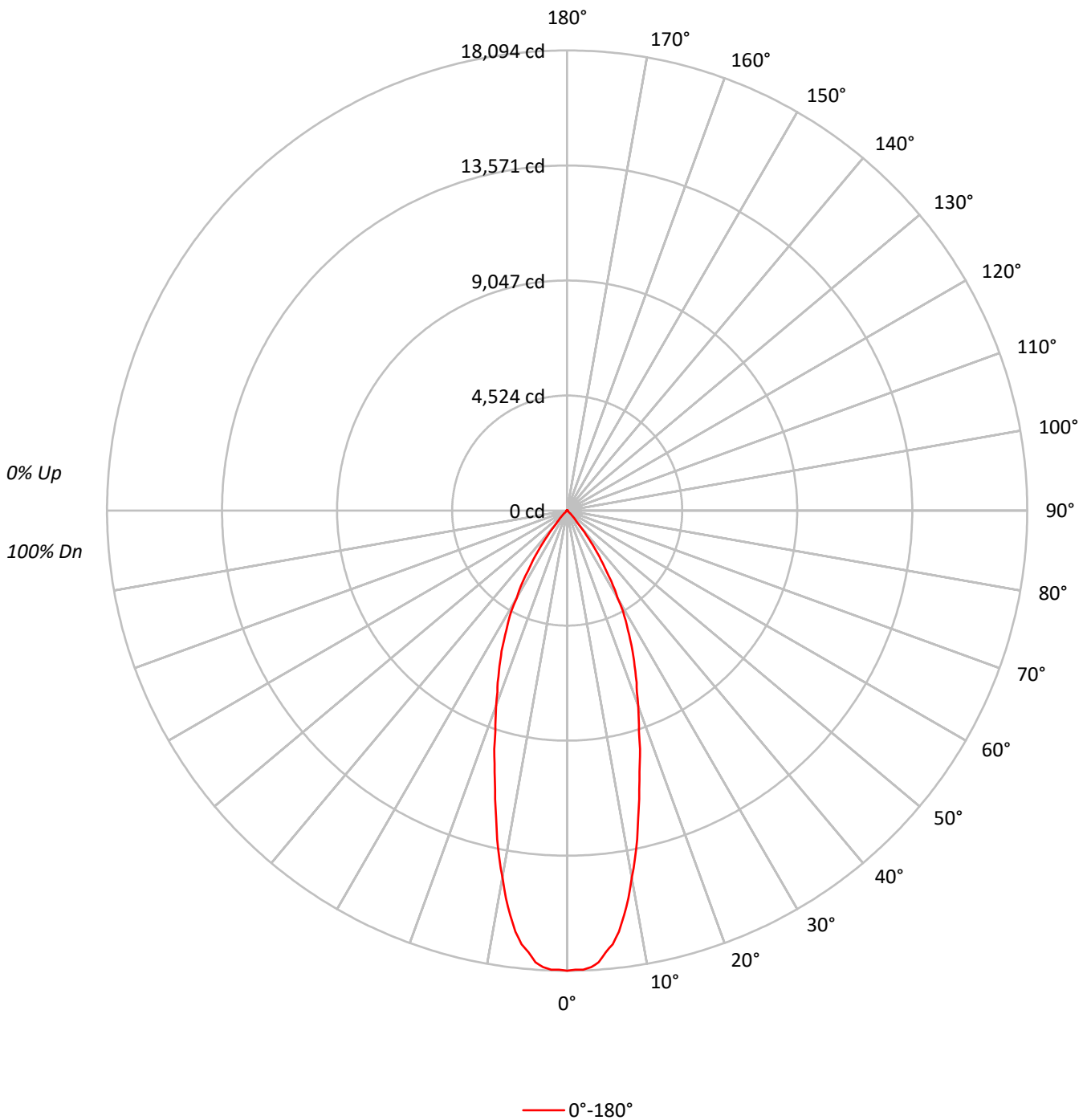
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250094

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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):

	0°
0°	557958
5°	539576
10°	458874
15°	350233
20°	267665
25°	207421
30°	141469
35°	83115
40°	25412
45°	10000
50°	154
55°	172
60°	197
65°	460
70°	857
75°	751
80°	568
85°	3361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1580.3	17.6
10°-20°	3062.2	34.0
20°-30°	2757.0	30.6
30°-40°	1364.0	15.2
40°-50°	207.5	2.3
50°-60°	8.5	0.1
60°-70°	11.0	0.1
70°-80°	4.2	0.0
80°-90°	6.5	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°	7399.4	82.2
0°-40°	8763.4	97.4
0°-60°	8979.5	99.8
0°-90°	9001.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9001.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18094	
5°	17432	###
15°	10971	3062
25°	6096	2757
35°	2208	1364
45°	229	207
55°	3	9
65°	6	11
75°	6	4
85°	10	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18094.2
1°	18056.5
2°	18065.8
3°	17974.8
4°	17808.4
5°	17431.5
6°	17142.5
7°	16684.0
8°	16068.4
9°	15427.6
10°	14654.9
11°	13964.0
12°	13222.8
13°	12403.0
14°	11696.4
15°	10970.8
16°	10352.0
17°	9805.6
18°	9133.4
19°	8640.3
20°	8156.7
21°	7654.1
22°	7286.7
23°	6859.5
24°	6466.9
25°	6096.3
26°	5659.7
27°	5267.2
28°	4915.3
29°	4529.0
30°	3973.1
31°	3659.1
32°	3263.3
33°	2829.8
34°	2500.1
35°	2207.9
37.5°	1397.6
40°	631.3
42.5°	430.3
45°	229.3
47.5°	128.7
50°	3.2
52.5°	12.6
55°	3.2
57.5°	18.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.2
62.5°	15.8
65°	6.3
67.5°	15.8
70°	9.5
72.5°	3.2
75°	6.3
77.5°	0.0
80°	3.2
82.5°	12.6
85°	9.5
87.5°	0.0
90°	0.0

(END OF REPORT)