

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: P250038

Luminaire Tested: **LSR8B100D010 EC8B100827 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250038
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 EC8B100827 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9481.0 lumens
Efficiency: N/A
Efficacy: 89.2 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

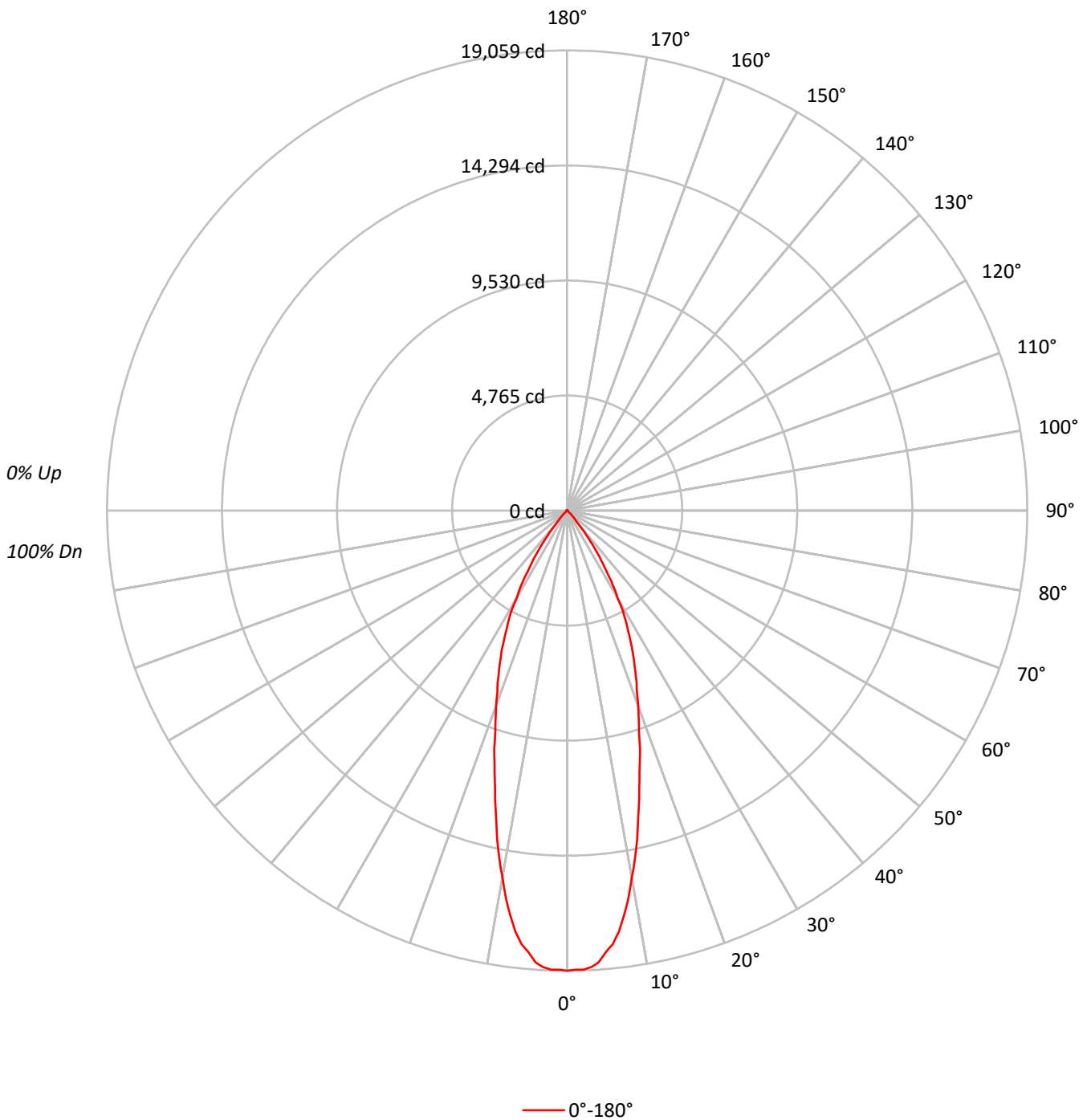
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	587712
5°	568351
10°	483345
15°	368909
20°	281939
25°	218482
30°	149014
35°	87549
40°	26769
45°	10532
50°	158
55°	177
60°	204
65°	482
70°	902
75°	786
80°	586
85°	3538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1664.5	17.6
10°-20°	3225.5	34.0
20°-30°	2904.0	30.6
30°-40°	1436.8	15.2
40°-50°	218.6	2.3
50°-60°	9.0	0.1
60°-70°	11.6	0.1
70°-80°	4.4	0.0
80°-90°	6.8	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°	7794.0	82.2
0°-40°	9230.8	97.4
0°-60°	9458.3	99.8
0°-90°	9481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19059	
5°	18361	###
15°	11556	3225
25°	6421	2904
35°	2326	1437
45°	242	219
55°	3	9
65°	7	12
75°	7	4
85°	10	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19059.1
1°	19019.4
2°	19029.2
3°	18933.3
4°	18758.1
5°	18361.1
6°	18056.7
7°	17573.7
8°	16925.3
9°	16250.3
10°	15436.4
11°	14708.7
12°	13928.0
13°	13064.5
14°	12320.1
15°	11555.8
16°	10904.1
17°	10328.5
18°	9620.5
19°	9101.0
20°	8591.7
21°	8062.3
22°	7675.2
23°	7225.3
24°	6811.7
25°	6421.4
26°	5961.5
27°	5548.0
28°	5177.5
29°	4770.5
30°	4185.0
31°	3854.2
32°	3437.3
33°	2980.7
34°	2633.4
35°	2325.7
37.5°	1472.1
40°	665.0
42.5°	453.2
45°	241.5
47.5°	135.6
50°	3.3
52.5°	13.3
55°	3.3
57.5°	19.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.3
62.5°	16.6
65°	6.6
67.5°	16.6
70°	10.0
72.5°	3.3
75°	6.6
77.5°	0.0
80°	3.3
82.5°	13.3
85°	10.0
87.5°	0.0
90°	0.0

(END OF REPORT)