

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: P250052

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250052
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 EC8B100835 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10106.0 lumens
Efficiency: N/A
Efficacy: 95.1 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

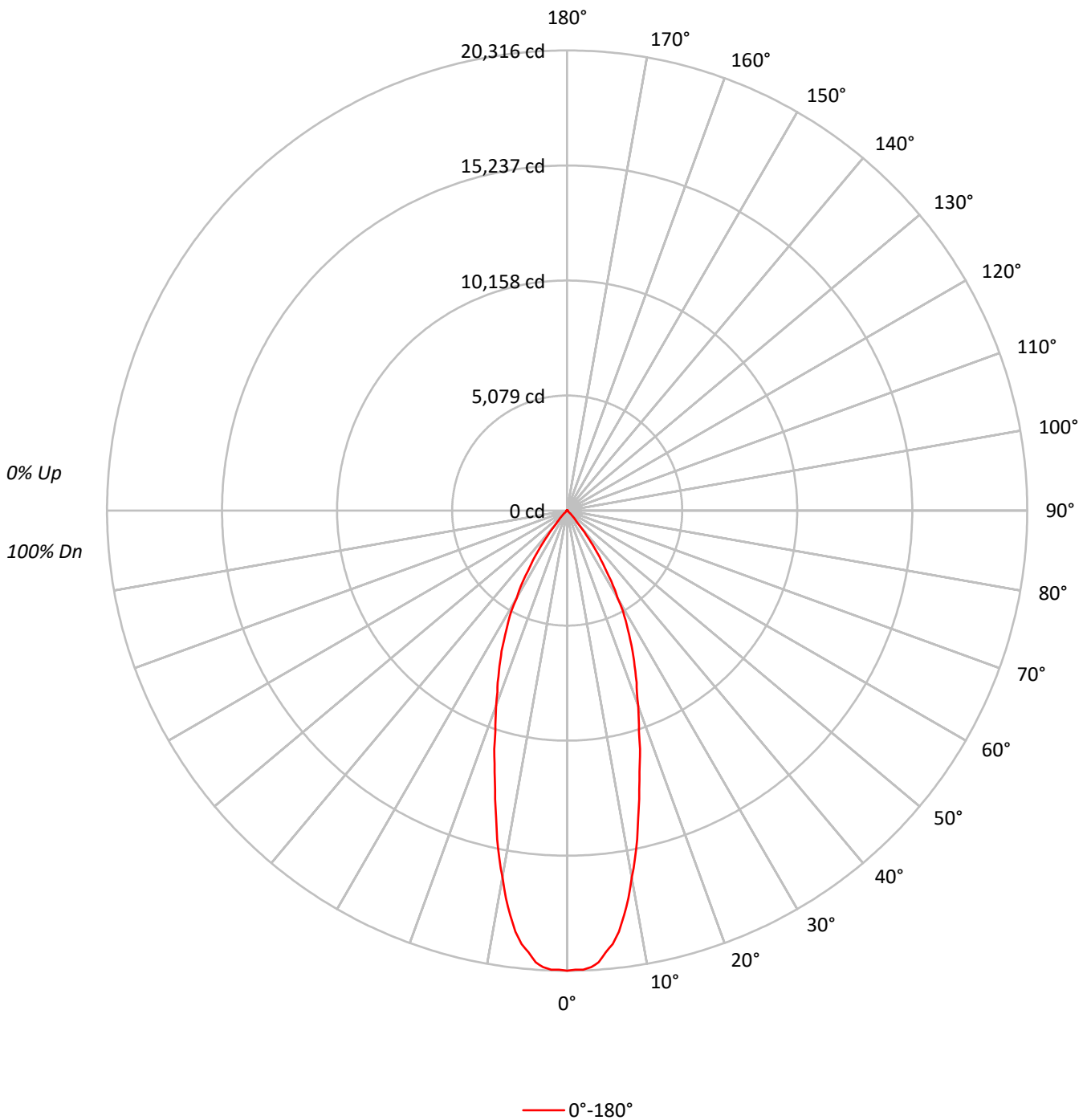
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	626455
5°	605815
10°	515208
15°	393228
20°	300526
25°	232885
30°	158838
35°	93320
40°	28536
45°	11225
50°	168
55°	188
60°	216
65°	518
70°	956
75°	846
80°	622
85°	3750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1774.3	17.6
10°-20°	3438.1	34.0
20°-30°	3095.4	30.6
30°-40°	1531.5	15.2
40°-50°	233.0	2.3
50°-60°	9.5	0.1
60°-70°	12.3	0.1
70°-80°	4.6	0.0
80°-90°	7.2	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°	8307.8	82.2
0°-40°	9839.3	97.4
0°-60°	10081.8	99.8
0°-90°	10106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10106.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20316	
5°	19571	###
15°	12318	3438
25°	6845	3095
35°	2479	1531
45°	257	233
55°	4	10
65°	7	12
75°	7	5
85°	11	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	20315.5
1°	20273.2
2°	20283.7
3°	20181.4
4°	19994.6
5°	19571.4
6°	19247.0
7°	18732.2
8°	18041.0
9°	17321.6
10°	16454.0
11°	15678.3
12°	14846.1
13°	13925.7
14°	13132.3
15°	12317.6
16°	11622.9
17°	11009.4
18°	10254.7
19°	9701.0
20°	9158.1
21°	8593.7
22°	8181.2
23°	7701.6
24°	7260.8
25°	6844.7
26°	6354.5
27°	5913.8
28°	5518.8
29°	5085.0
30°	4460.9
31°	4108.3
32°	3663.9
33°	3177.2
34°	2807.0
35°	2479.0
37.5°	1569.2
40°	708.9
42.5°	483.1
45°	257.4
47.5°	144.5
50°	3.5
52.5°	14.1
55°	3.5
57.5°	21.2



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CANDELA DISTRIBUTION (continued):

	0°
60°	3.5
62.5°	17.7
65°	7.1
67.5°	17.7
70°	10.6
72.5°	3.5
75°	7.1
77.5°	0.0
80°	3.5
82.5°	14.1
85°	10.6
87.5°	0.0
90°	0.0

(END OF REPORT)