

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: P250647

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9987.9 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

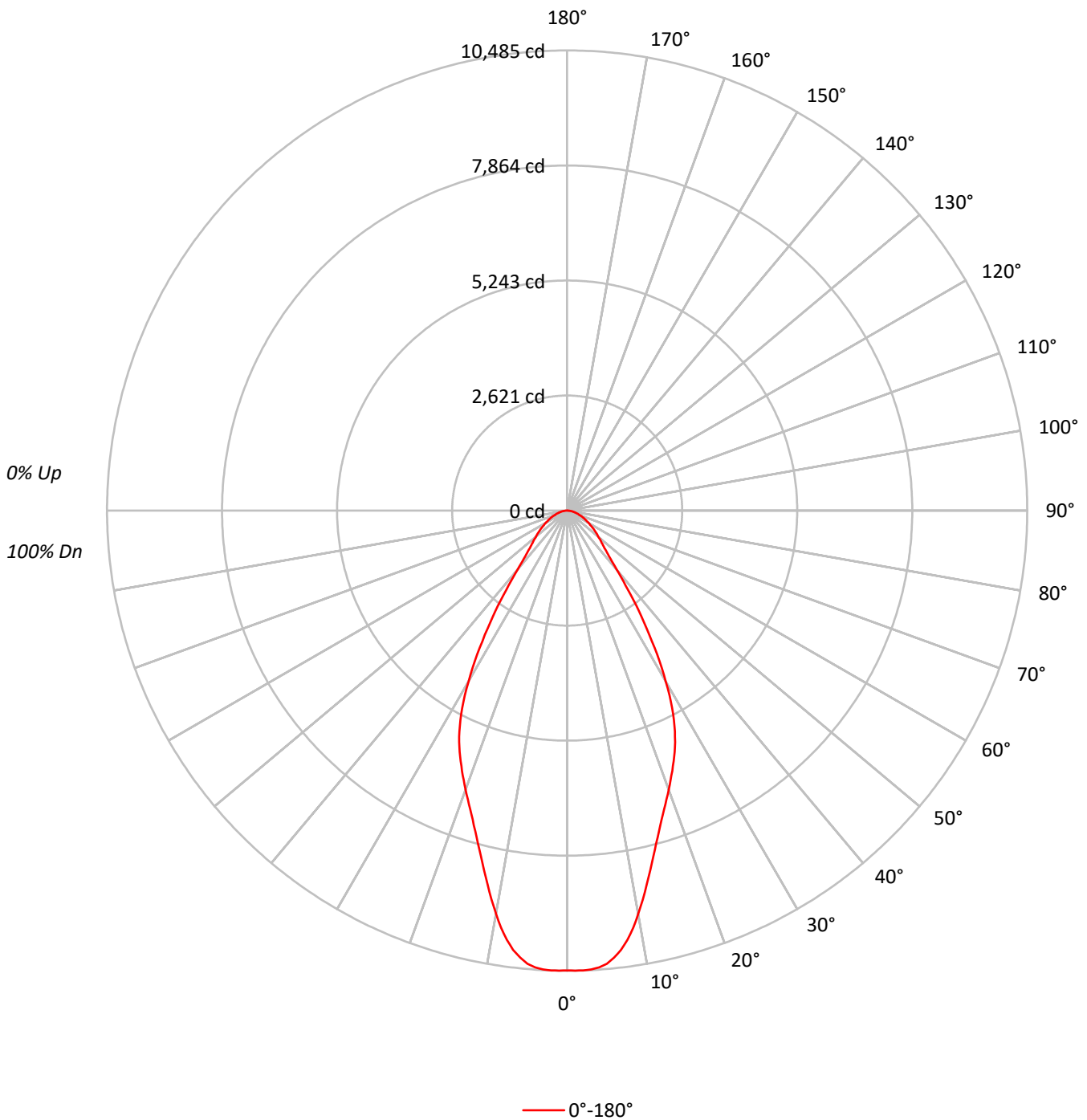
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250647

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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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	323128
5°	320808
10°	292288
15°	250588
20°	222025
25°	198109
30°	160002
35°	111096
40°	70432
45°	52257
50°	44643
55°	39235
60°	34987
65°	31390
70°	27012
75°	24686
80°	23192
85°	20309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	956.6	9.6
10°-20°	2207.1	22.1
20°-30°	2630.6	26.3
30°-40°	1856.9	18.6
40°-50°	959.0	9.6
50°-60°	658.0	6.6
60°-70°	427.8	4.3
70°-80°	224.0	2.2
80°-90°	68.0	0.7
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°	5794.3	58.0
0°-40°	7651.1	76.6
0°-60°	9268.1	92.8
0°-90°	9987.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9987.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10479	
5°	10364	957
15°	7850	2207
25°	5823	2631
35°	2951	1857
45°	1198	959
55°	730	658
65°	430	428
75°	207	224
85°	57	68
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10478.8
1°	10485.1
2°	10485.1
3°	10469.2
4°	10434.1
5°	10364.0
6°	10239.7
7°	10086.7
8°	9876.3
9°	9621.5
10°	9334.7
11°	9031.9
12°	8716.3
13°	8413.6
14°	8120.4
15°	7849.5
16°	7597.7
17°	7365.1
18°	7154.7
19°	6957.1
20°	6765.9
21°	6577.9
22°	6393.1
23°	6208.2
24°	6020.2
25°	5822.6
26°	5599.4
27°	5357.2
28°	5092.8
29°	4812.3
30°	4493.6
31°	4184.5
32°	3868.9
33°	3543.9
34°	3244.3
35°	2951.2
37.5°	2272.3
40°	1749.7
42.5°	1408.7
45°	1198.3
47.5°	1048.5
50°	930.6
52.5°	828.6
55°	729.8
57.5°	640.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	567.3
62.5°	494.0
65°	430.2
67.5°	372.8
70°	299.6
72.5°	258.2
75°	207.2
77.5°	168.8
80°	130.6
82.5°	95.6
85°	57.4
87.5°	31.8
90°	0.0

(END OF REPORT)