

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: P250639

Luminaire Tested: **LSR8B90D010 EC8B90835 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250639
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: LSR8B90D010 EC8B90835 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8714.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

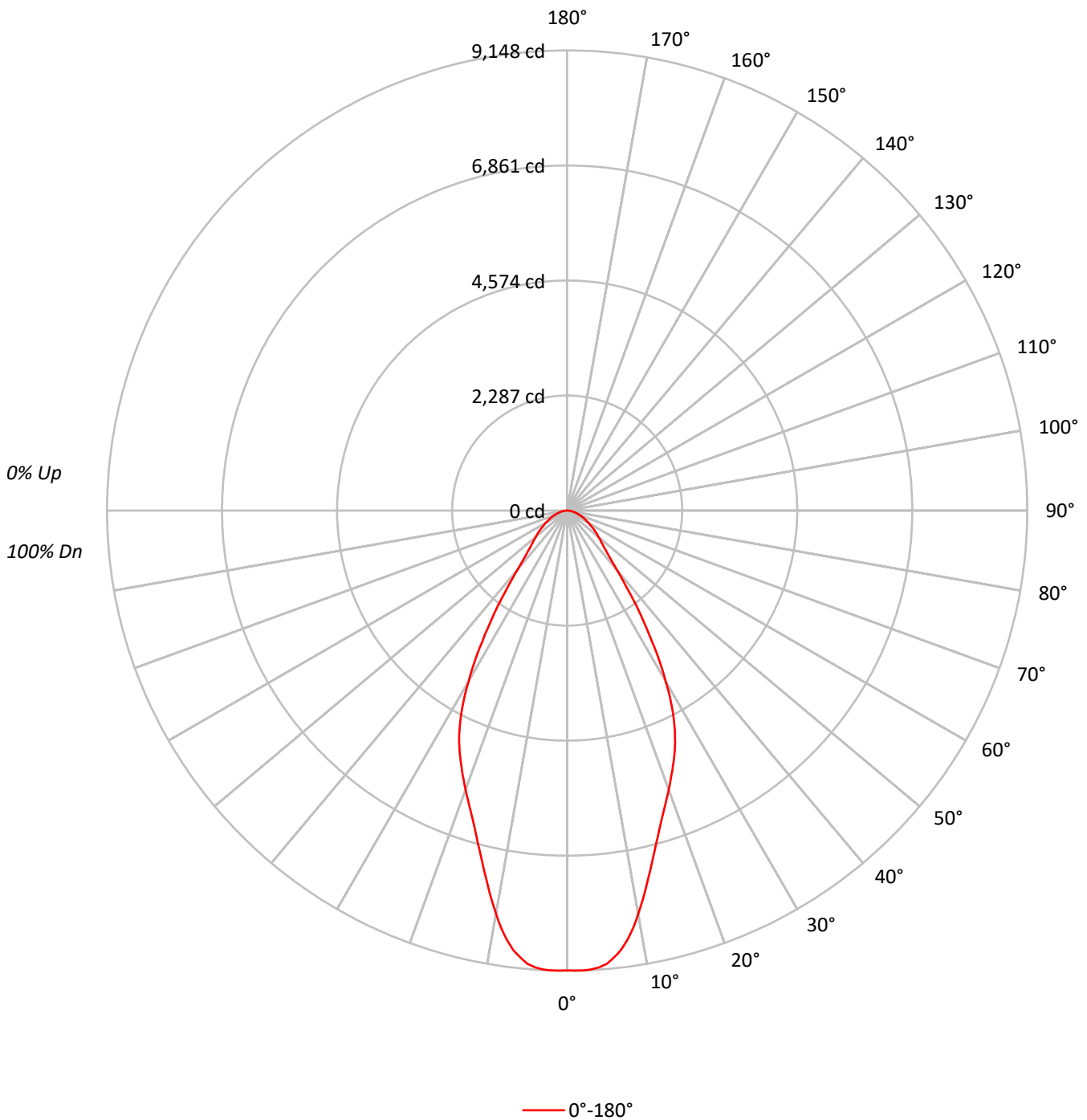
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	281912
5°	279887
10°	255005
15°	218626
20°	193706
25°	172839
30°	139593
35°	96926
40°	61448
45°	45589
50°	38949
55°	34230
60°	30522
65°	27391
70°	23568
75°	21541
80°	20244
85°	17726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.6	9.6
10°-20°	1925.6	22.1
20°-30°	2295.0	26.3
30°-40°	1620.0	18.6
40°-50°	836.6	9.6
50°-60°	574.1	6.6
60°-70°	373.3	4.3
70°-80°	195.4	2.2
80°-90°	59.4	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°	5055.2	58.0
0°-40°	6675.2	76.6
0°-60°	8086.0	92.8
0°-90°	8714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8714.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9142	
5°	9042	835
15°	6848	1926
25°	5080	2295
35°	2575	1620
45°	1045	837
55°	637	574
65°	375	373
75°	181	195
85°	50	59
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9142.2
1°	9147.7
2°	9147.7
3°	9133.8
4°	9103.2
5°	9042.0
6°	8933.6
7°	8800.1
8°	8616.6
9°	8394.2
10°	8144.0
11°	7879.8
12°	7604.5
13°	7340.4
14°	7084.6
15°	6848.3
16°	6628.6
17°	6425.7
18°	6242.1
19°	6069.7
20°	5902.9
21°	5738.9
22°	5577.6
23°	5416.4
24°	5252.3
25°	5079.9
26°	4885.2
27°	4673.9
28°	4443.2
29°	4198.5
30°	3920.4
31°	3650.8
32°	3375.4
33°	3091.8
34°	2830.4
35°	2574.8
37.5°	1982.5
40°	1526.5
42.5°	1229.0
45°	1045.4
47.5°	914.7
50°	811.9
52.5°	723.0
55°	636.7
57.5°	558.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	494.9
62.5°	431.0
65°	375.4
67.5°	325.3
70°	261.4
72.5°	225.3
75°	180.8
77.5°	147.3
80°	114.0
82.5°	83.4
85°	50.1
87.5°	27.8
90°	0.0

(END OF REPORT)