

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: P250653

Luminaire Tested: **LSR8B90D010 EC8B90850 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250653
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 EC8B90850 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8826.0 lumens
Efficiency: N/A
Efficacy: 102.5 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

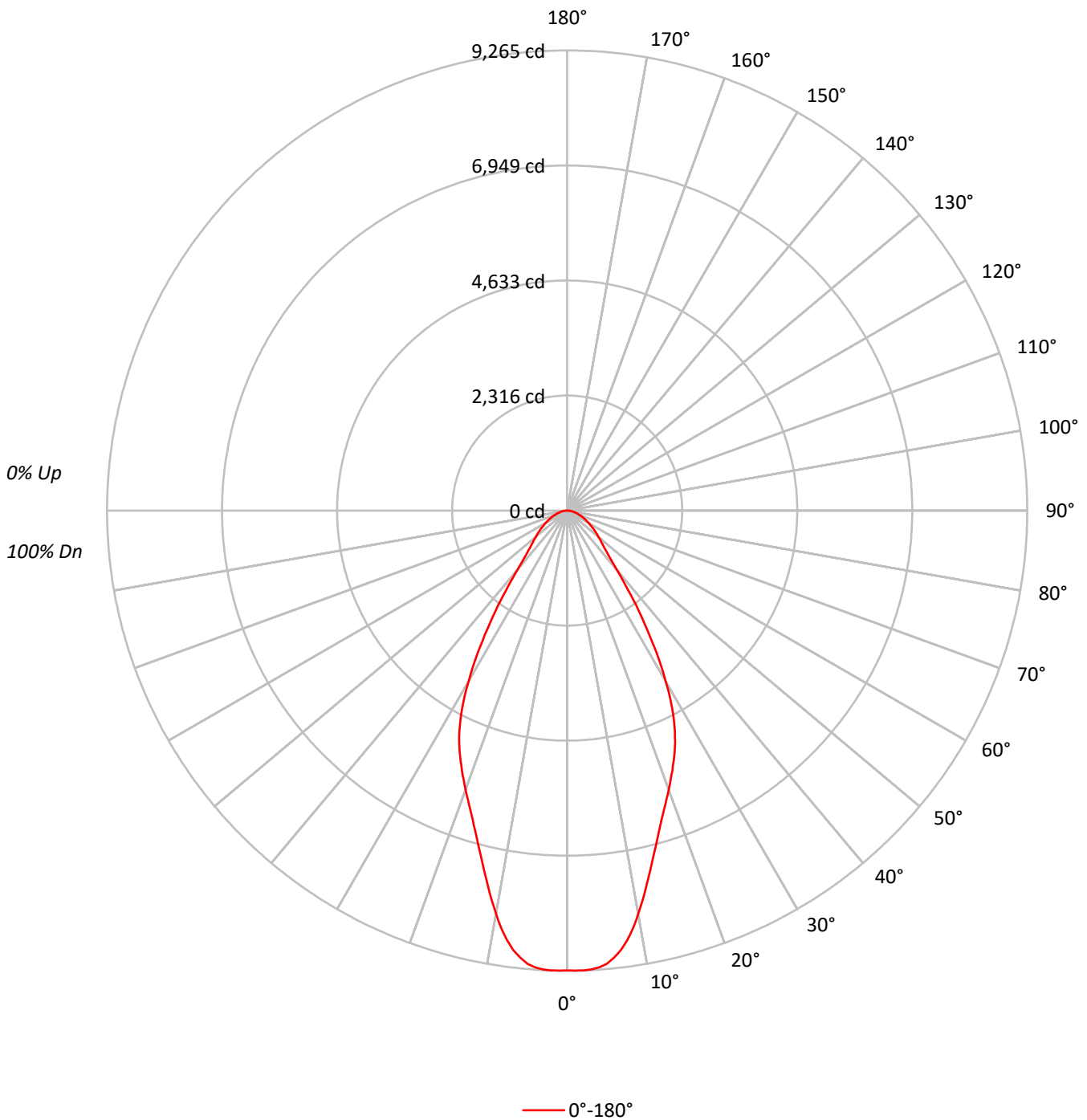
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	285535
5°	283484
10°	258283
15°	221435
20°	196196
25°	175061
30°	141387
35°	98172
40°	62237
45°	46178
50°	39453
55°	34671
60°	30916
65°	27741
70°	23874
75°	21815
80°	20493
85°	17938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	845.3	9.6
10°-20°	1950.4	22.1
20°-30°	2324.5	26.3
30°-40°	1640.8	18.6
40°-50°	847.4	9.6
50°-60°	581.5	6.6
60°-70°	378.1	4.3
70°-80°	197.9	2.2
80°-90°	60.1	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°	5120.2	58.0
0°-40°	6761.0	76.6
0°-60°	8189.9	92.8
0°-90°	8826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8826.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9260	
5°	9158	845
15°	6936	1950
25°	5145	2325
35°	2608	1641
45°	1059	847
55°	645	581
65°	380	378
75°	183	198
85°	51	60
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9259.7
1°	9265.3
2°	9265.3
3°	9251.2
4°	9220.2
5°	9158.2
6°	9048.4
7°	8913.2
8°	8727.3
9°	8502.1
10°	8248.7
11°	7981.1
12°	7702.2
13°	7434.8
14°	7175.7
15°	6936.3
16°	6713.8
17°	6508.3
18°	6322.3
19°	6147.7
20°	5978.8
21°	5812.6
22°	5649.3
23°	5486.0
24°	5319.8
25°	5145.2
26°	4948.0
27°	4734.0
28°	4500.3
29°	4252.5
30°	3970.8
31°	3697.7
32°	3418.8
33°	3131.6
34°	2866.8
35°	2607.9
37.5°	2008.0
40°	1546.1
42.5°	1244.8
45°	1058.9
47.5°	926.5
50°	822.4
52.5°	732.2
55°	644.9
57.5°	566.1



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CANDELA DISTRIBUTION (continued):

	0°
60°	501.3
62.5°	436.5
65°	380.2
67.5°	329.5
70°	264.8
72.5°	228.2
75°	183.1
77.5°	149.2
80°	115.4
82.5°	84.5
85°	50.7
87.5°	28.1
90°	0.0

(END OF REPORT)