

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: P250688

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250688
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 EC8B90950 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8035.0 lumens
Efficiency: N/A
Efficacy: 93.3 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

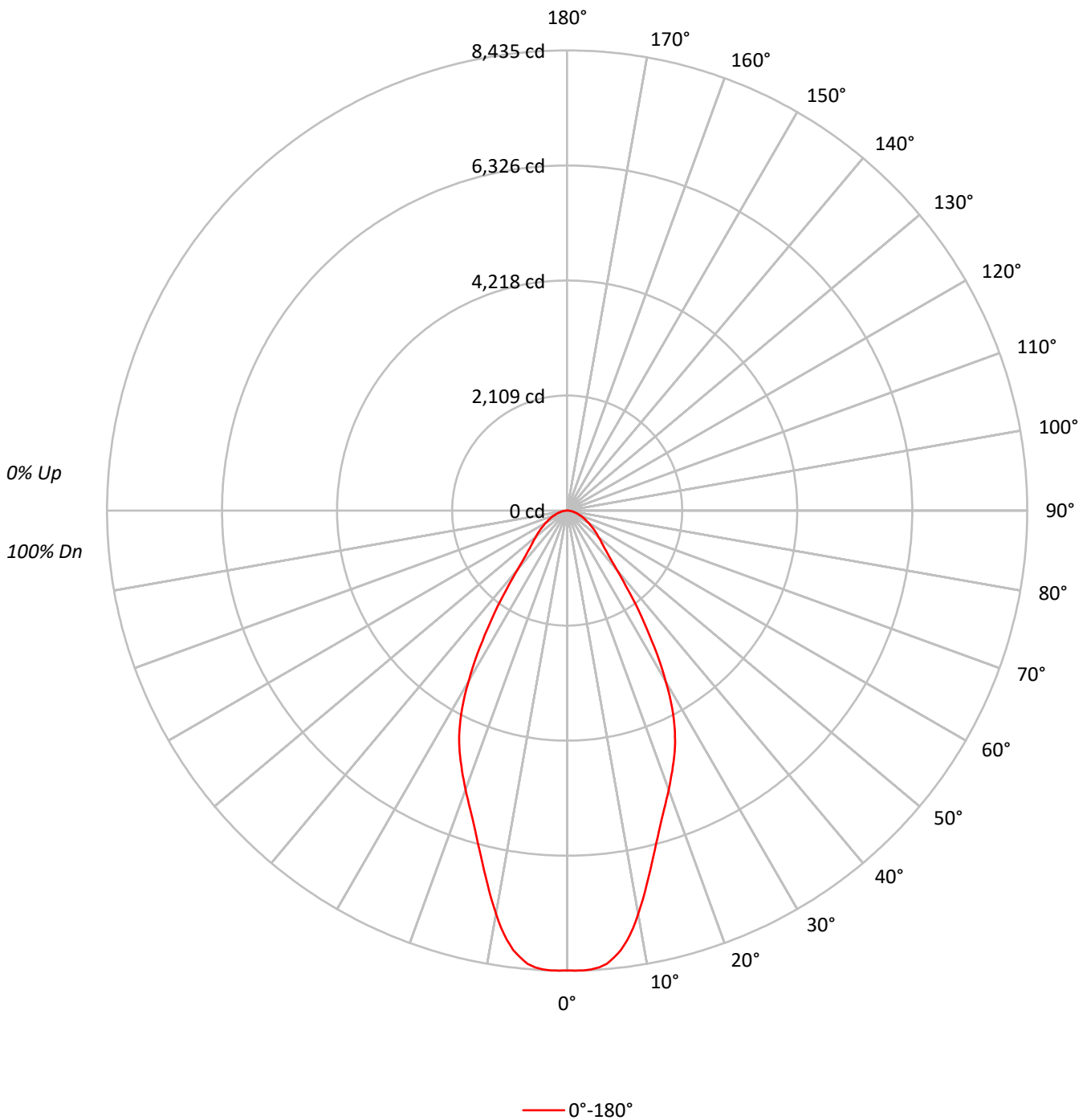
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	259944
5°	258080
10°	235134
15°	201591
20°	178611
25°	159372
30°	128715
35°	89371
40°	56661
45°	42039
50°	35917
55°	31563
60°	28141
65°	25253
70°	21728
75°	19861
80°	18664
85°	16346



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	9.6
10°-20°	1775.6	22.1
20°-30°	2116.2	26.3
30°-40°	1493.8	18.6
40°-50°	771.4	9.6
50°-60°	529.4	6.6
60°-70°	344.1	4.3
70°-80°	180.2	2.2
80°-90°	54.8	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°	4661.3	58.0
0°-40°	6155.1	76.6
0°-60°	7455.9	92.8
0°-90°	8035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8035.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8430	
5°	8338	770
15°	6315	1776
25°	4684	2116
35°	2374	1494
45°	964	771
55°	587	529
65°	346	344
75°	167	180
85°	46	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8429.8
1°	8434.9
2°	8434.9
3°	8422.1
4°	8393.9
5°	8337.5
6°	8237.5
7°	8114.4
8°	7945.2
9°	7740.2
10°	7509.4
11°	7265.8
12°	7011.9
13°	6768.5
14°	6532.6
15°	6314.7
16°	6112.1
17°	5925.0
18°	5755.7
19°	5596.8
20°	5442.9
21°	5291.7
22°	5143.0
23°	4994.3
24°	4843.1
25°	4684.1
26°	4504.5
27°	4309.7
28°	4097.0
29°	3871.4
30°	3614.9
31°	3366.3
32°	3112.4
33°	2850.9
34°	2609.9
35°	2374.1
37.5°	1828.0
40°	1407.6
42.5°	1133.2
45°	964.0
47.5°	843.5
50°	748.7
52.5°	666.6
55°	587.1
57.5°	515.4



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CANDELA DISTRIBUTION (continued):

	0°
60°	456.3
62.5°	397.4
65°	346.1
67.5°	299.9
70°	241.0
72.5°	207.7
75°	166.7
77.5°	135.8
80°	105.1
82.5°	76.9
85°	46.2
87.5°	25.6
90°	0.0

(END OF REPORT)