

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: P250436

Luminaire Tested: **LSR8B90D010 EC8B90950 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B90D010 EC8B90950 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133.0 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

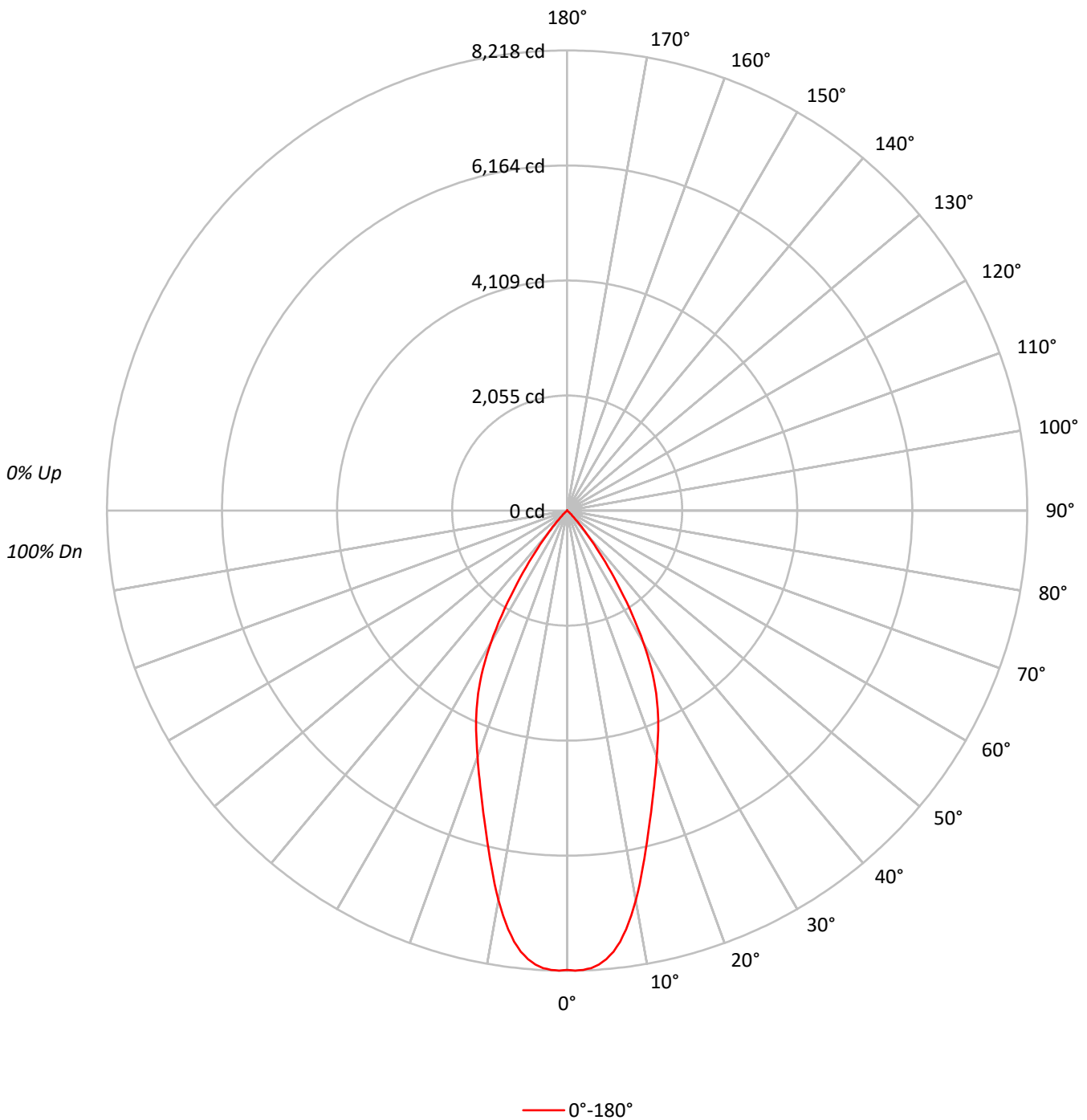
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102		101	100	99		98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72		79	75	71		77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68		75	71	67		74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64		71	67	64		70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61		68	63	60		67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57		65	60	57		64	60	57	56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	252919
5°	248880
10°	221122
15°	182408
20°	153625
25°	129574
30°	97018
35°	54904
40°	21709
45°	5831
50°	1118
55°	0
60°	160
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.3	14.3
10°-20°	1600.3	31.2
20°-30°	1718.0	33.5
30°-40°	928.6	18.1
40°-50°	144.9	2.8
50°-60°	4.0	0.1
60°-70°	1.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	4054.6	79.0
0°-40°	4983.2	97.1
0°-60°	5132.0	100.0
0°-90°	5133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5133.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8202	
5°	8040	736
15°	5714	1600
25°	3808	1718
35°	1458	929
45°	134	145
55°	0	4
65°	0	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8202.0
1°	8217.6
2°	8209.9
3°	8181.8
4°	8127.7
5°	8040.3
6°	7919.8
7°	7757.8
8°	7555.0
9°	7321.5
10°	7061.9
11°	6789.7
12°	6507.2
13°	6225.0
14°	5962.8
15°	5713.8
16°	5485.2
17°	5264.3
18°	5058.9
19°	4866.5
20°	4681.5
21°	4501.6
22°	4332.0
23°	4162.8
24°	3985.6
25°	3808.3
26°	3628.5
27°	3423.1
28°	3197.0
29°	2966.2
30°	2724.7
31°	2465.4
32°	2205.8
33°	1949.1
34°	1689.7
35°	1458.5
37.5°	932.2
40°	539.3
42.5°	287.7
45°	133.7
47.5°	72.1
50°	23.3
52.5°	2.6
55°	0.0
57.5°	2.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.6
62.5°	0.0
65°	0.0
67.5°	2.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)