

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: P250691

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250691  
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: LSR8B150D010 EC8B150950 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: 13404.9 lumens  
Efficiency: N/A  
Efficacy: 84.6 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

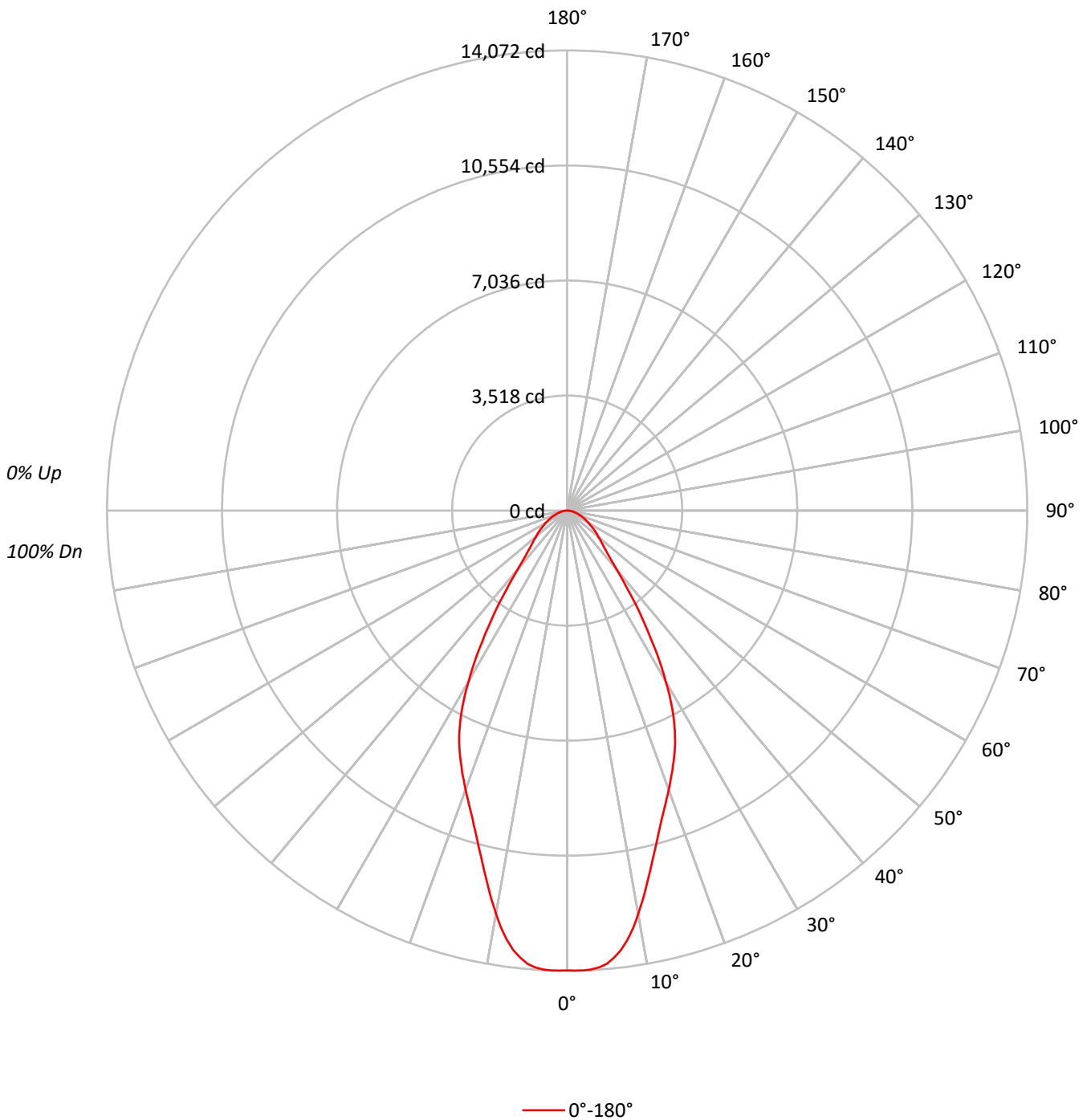
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	433670
5°	430559
10°	392280
15°	336320
20°	297983
25°	265885
30°	214737
35°	149101
40°	94528
45°	70132
50°	59918
55°	52659
60°	46951
65°	42130
70°	36253
75°	33133
80°	31130
85°	27243



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1283.8	9.6
10°-20°	2962.2	22.1
20°-30°	3530.5	26.3
30°-40°	2492.1	18.6
40°-50°	1287.0	9.6
50°-60°	883.2	6.6
60°-70°	574.2	4.3
70°-80°	300.6	2.2
80°-90°	91.3	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°	7776.6	58.0
0°-40°	10268.7	76.6
0°-60°	12438.9	92.8
0°-90°	13404.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13404.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14064	
5°	13910	###
15°	10535	2962
25°	7815	3531
35°	3961	2492
45°	1608	1287
55°	980	883
65°	577	574
75°	278	301
85°	77	91
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14063.6
1°	14072.2
2°	14072.2
3°	14050.8
4°	14003.8
5°	13909.6
6°	13742.9
7°	13537.5
8°	13255.1
9°	12913.1
10°	12528.1
11°	12121.7
12°	11698.2
13°	11292.0
14°	10898.5
15°	10535.0
16°	10197.0
17°	9884.8
18°	9602.4
19°	9337.2
20°	9080.6
21°	8828.2
22°	8580.2
23°	8332.1
24°	8079.8
25°	7814.6
26°	7515.1
27°	7190.0
28°	6835.1
29°	6458.7
30°	6030.8
31°	5616.1
32°	5192.5
33°	4756.3
34°	4354.2
35°	3960.8
37.5°	3049.7
40°	2348.3
42.5°	1890.6
45°	1608.2
47.5°	1407.2
50°	1249.0
52.5°	1112.1
55°	979.5
57.5°	859.8



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	761.3
62.5°	663.0
65°	577.4
67.5°	500.4
70°	402.1
72.5°	346.5
75°	278.1
77.5°	226.6
80°	175.3
82.5°	128.3
85°	77.0
87.5°	42.7
90°	0.0

(END OF REPORT)