

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: P250635

Luminaire Tested: **LSR8B150D010 EC8B150830 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250635  
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 EC8B150830 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13978.9 lumens  
Efficiency: N/A  
Efficacy: 88.2 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

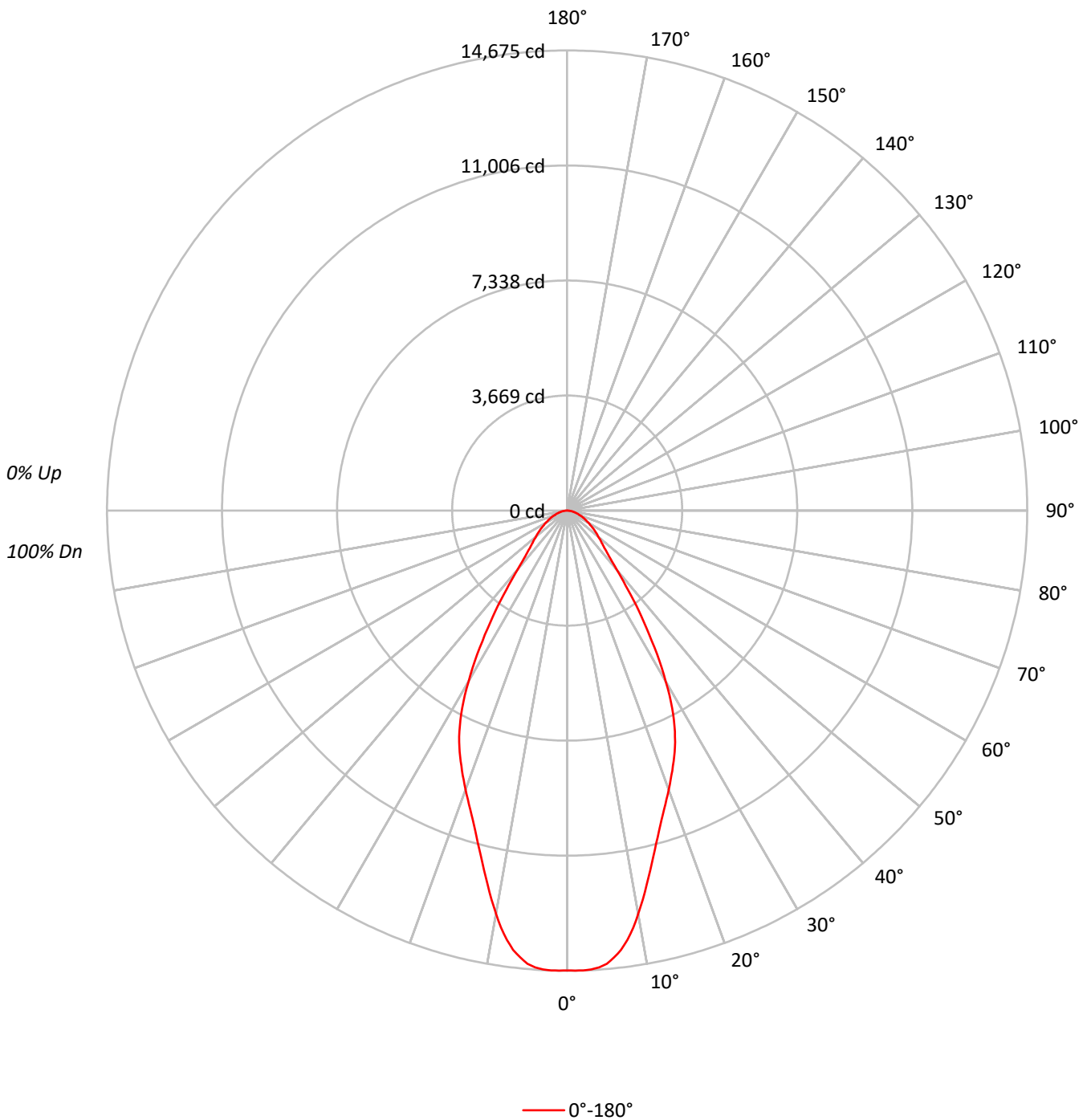
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	452242
5°	448995
10°	409079
15°	350721
20°	310741
25°	277269
30°	223934
35°	155486
40°	98578
45°	73137
50°	62485
55°	54917
60°	48962
65°	43932
70°	37804
75°	34551
80°	32461
85°	28411



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1338.8	9.6
10°-20°	3089.1	22.1
20°-30°	3681.7	26.3
30°-40°	2598.8	18.6
40°-50°	1342.1	9.6
50°-60°	921.0	6.6
60°-70°	598.7	4.3
70°-80°	313.5	2.2
80°-90°	95.2	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°	8109.6	58.0
0°-40°	10708.4	76.6
0°-60°	12971.5	92.8
0°-90°	13978.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13978.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14666	
5°	14505	###
15°	10986	3089
25°	8149	3682
35°	4130	2599
45°	1677	1342
55°	1022	921
65°	602	599
75°	290	313
85°	80	95
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14665.9
1°	14674.8
2°	14674.8
3°	14652.4
4°	14603.4
5°	14505.2
6°	14331.3
7°	14117.2
8°	13822.7
9°	13466.0
10°	13064.6
11°	12640.8
12°	12199.1
13°	11775.5
14°	11365.1
15°	10986.1
16°	10633.6
17°	10308.1
18°	10013.6
19°	9737.0
20°	9469.4
21°	9206.3
22°	8947.6
23°	8688.9
24°	8425.8
25°	8149.2
26°	7836.8
27°	7497.8
28°	7127.7
29°	6735.3
30°	6289.1
31°	5856.5
32°	5414.8
33°	4959.9
34°	4540.6
35°	4130.4
37.5°	3180.3
40°	2448.9
42.5°	1971.6
45°	1677.1
47.5°	1467.4
50°	1302.5
52.5°	1159.8
55°	1021.5
57.5°	896.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	793.9
62.5°	691.4
65°	602.1
67.5°	521.8
70°	419.3
72.5°	361.4
75°	290.0
77.5°	236.3
80°	182.8
82.5°	133.8
85°	80.3
87.5°	44.5
90°	0.0

(END OF REPORT)