

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: P251129

Luminaire Tested: **LD8B70D010 ER8B70827 8LBNOWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70827 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6588.9 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

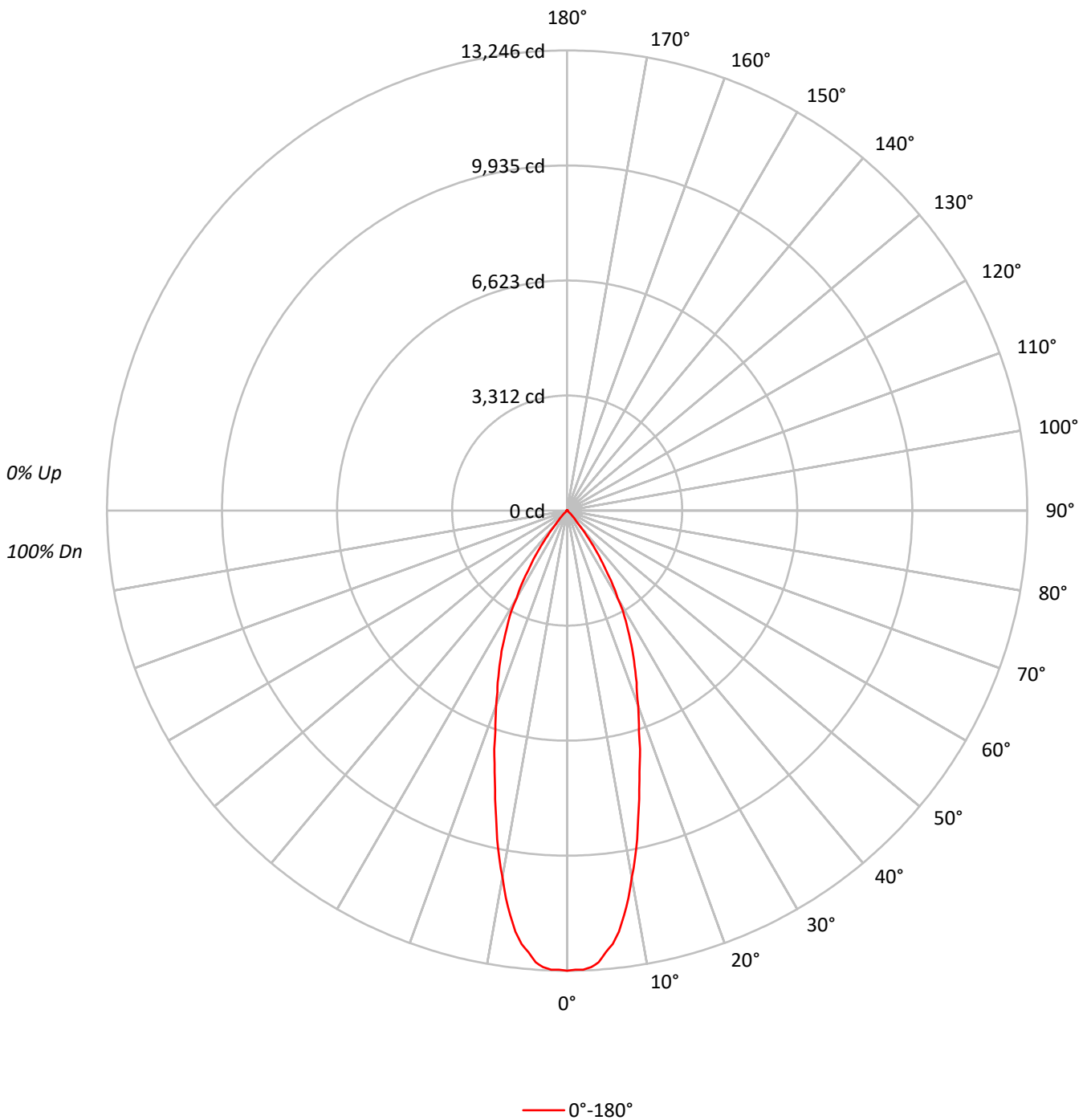
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	408442
5°	394987
10°	335909
15°	256379
20°	195940
25°	151836
30°	103559
35°	60844
40°	18605
45°	7318
50°	110
55°	124
60°	142
65°	336
70°	622
75°	548
80°	408
85°	2441



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1156.8	17.6
10°-20°	2241.6	34.0
20°-30°	2018.2	30.6
30°-40°	998.5	15.2
40°-50°	151.9	2.3
50°-60°	6.2	0.1
60°-70°	8.0	0.1
70°-80°	3.0	0.0
80°-90°	4.7	0.1
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°	5416.6	82.2
0°-40°	6415.1	97.4
0°-60°	6573.2	99.8
0°-90°	6588.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6588.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13246	
5°	12760	###
15°	8031	2242
25°	4463	2018
35°	1616	999
45°	168	152
55°	2	6
65°	5	8
75°	5	3
85°	7	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13245.5
1°	13217.9
2°	13224.7
3°	13158.1
4°	13036.3
5°	12760.4
6°	12548.8
7°	12213.2
8°	11762.6
9°	11293.5
10°	10727.8
11°	10222.1
12°	9679.5
13°	9079.4
14°	8562.1
15°	8030.9
16°	7578.0
17°	7178.0
18°	6686.0
19°	6324.9
20°	5971.0
21°	5603.0
22°	5334.0
23°	5021.4
24°	4733.9
25°	4462.6
26°	4143.0
27°	3855.7
28°	3598.2
29°	3315.4
30°	2908.4
31°	2678.6
32°	2388.8
33°	2071.5
34°	1830.1
35°	1616.3
37.5°	1023.1
40°	462.2
42.5°	315.0
45°	167.8
47.5°	94.2
50°	2.3
52.5°	9.2
55°	2.3
57.5°	13.8



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	2.3
62.5°	11.5
65°	4.6
67.5°	11.5
70°	6.9
72.5°	2.3
75°	4.6
77.5°	0.0
80°	2.3
82.5°	9.2
85°	6.9
87.5°	0.0
90°	0.0

(END OF REPORT)