

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: P251133

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBN0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251133  
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: LSR8B70D010 EC8B70835 8LBN0WH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7023.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

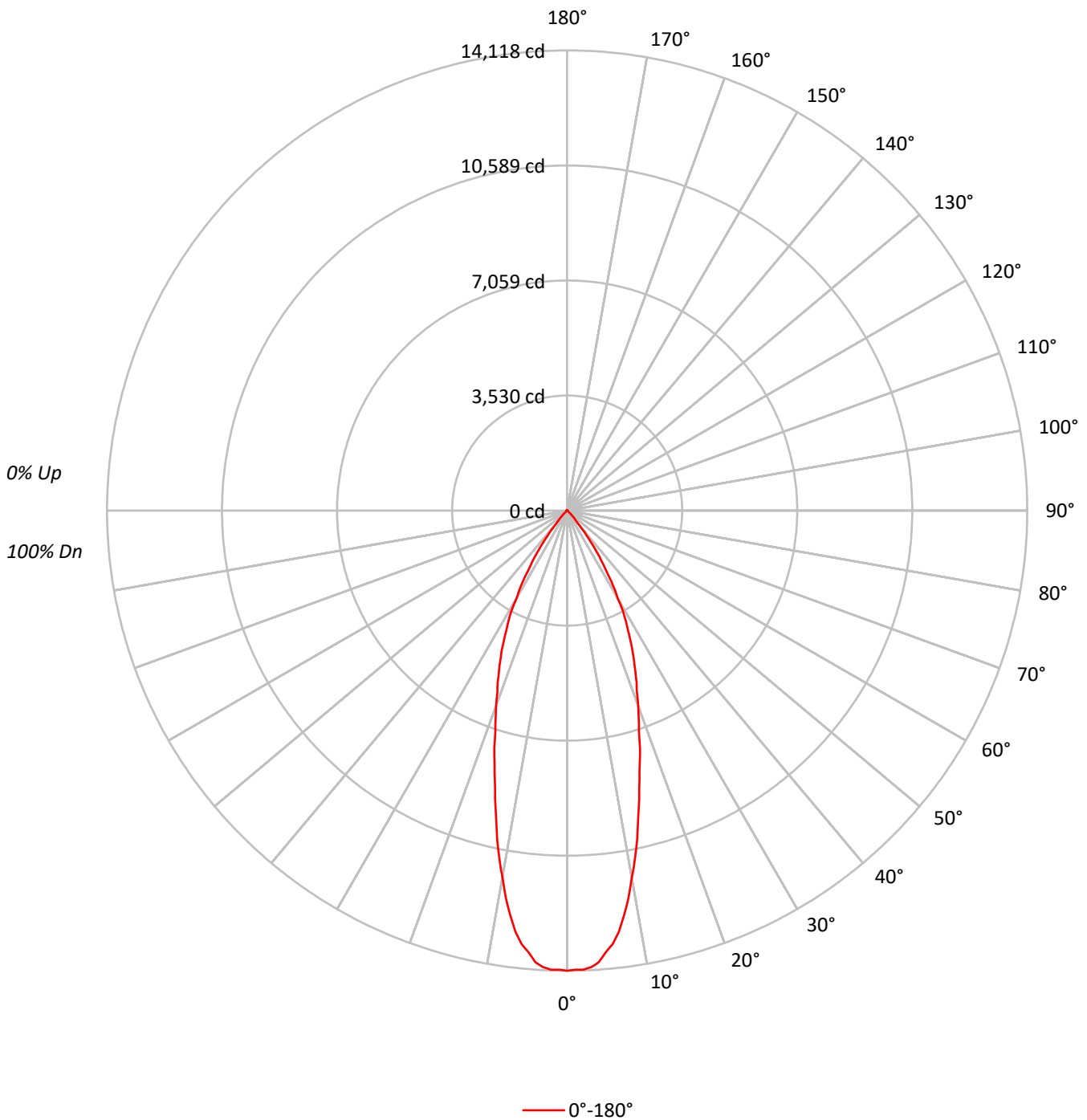
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	435344
5°	421004
10°	358037
15°	273267
20°	208843
25°	161839
30°	110381
35°	64850
40°	19829
45°	7802
50°	120
55°	134
60°	154
65°	358
70°	667
75°	584
80°	444
85°	2618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1233.0	17.6
10°-20°	2389.3	34.0
20°-30°	2151.1	30.6
30°-40°	1064.3	15.2
40°-50°	161.9	2.3
50°-60°	6.7	0.1
60°-70°	8.6	0.1
70°-80°	3.2	0.0
80°-90°	5.0	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°	5773.4	82.2
0°-40°	6837.6	97.4
0°-60°	7006.2	99.8
0°-90°	7023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7023.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14118	
5°	13601	###
15°	8560	2389
25°	4757	2151
35°	1723	1064
45°	179	162
55°	2	7
65°	5	9
75°	5	3
85°	7	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14117.9
1°	14088.6
2°	14095.8
3°	14024.8
4°	13894.9
5°	13600.9
6°	13375.4
7°	13017.6
8°	12537.3
9°	12037.3
10°	11434.5
11°	10895.4
12°	10317.1
13°	9677.4
14°	9126.0
15°	8559.9
16°	8077.1
17°	7650.8
18°	7126.3
19°	6741.5
20°	6364.2
21°	5972.1
22°	5685.4
23°	5352.1
24°	5045.7
25°	4756.6
26°	4415.9
27°	4109.7
28°	3835.2
29°	3533.7
30°	3100.0
31°	2855.0
32°	2546.2
33°	2208.0
34°	1950.7
35°	1722.7
37.5°	1090.5
40°	492.6
42.5°	335.7
45°	178.9
47.5°	100.4
50°	2.5
52.5°	9.8
55°	2.5
57.5°	14.7



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	2.5
62.5°	12.3
65°	4.9
67.5°	12.3
70°	7.4
72.5°	2.5
75°	4.9
77.5°	0.0
80°	2.5
82.5°	9.8
85°	7.4
87.5°	0.0
90°	0.0

(END OF REPORT)