

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: P250979

Luminaire Tested: **LSR8B70D010 EC8B70950 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250979  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70950 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6842.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

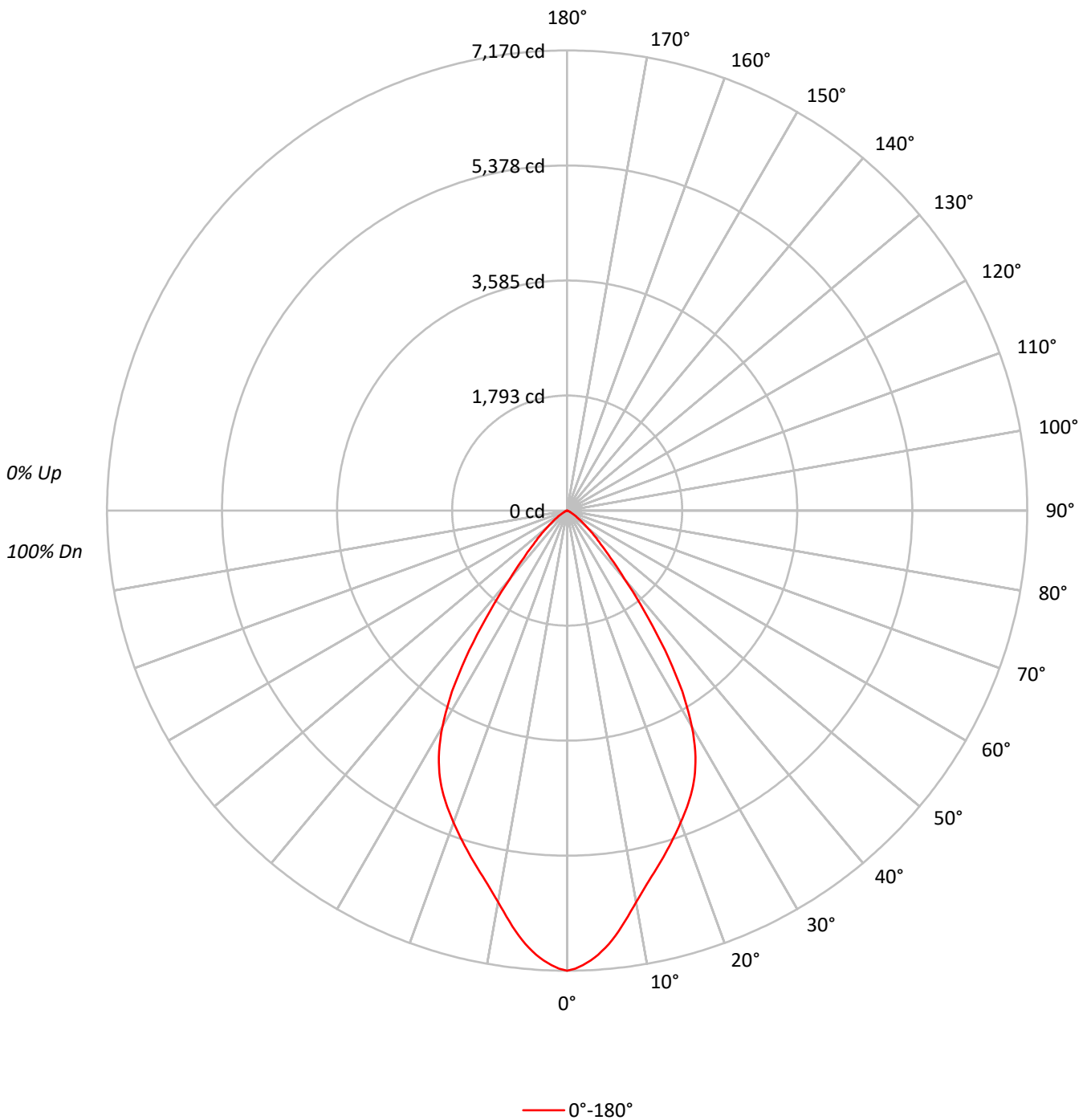
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	73
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	58	53	49	58	52	48	57	52	48	56	51	48	47

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

	0°
0°	221081
5°	211704
10°	193987
15°	180505
20°	169773
25°	158842
30°	138524
35°	100118
40°	56126
45°	32293
50°	19760
55°	11247
60°	5847
65°	2984
70°	1623
75°	977
80°	586
85°	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.5	9.2
10°-20°	1589.5	23.2
20°-30°	2120.9	31.0
30°-40°	1634.8	23.9
40°-50°	609.5	8.9
50°-60°	199.3	2.9
60°-70°	46.0	0.7
70°-80°	9.2	0.1
80°-90°	1.3	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°	4341.8	63.5
0°-40°	5976.6	87.4
0°-60°	6785.4	99.2
0°-90°	6842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6842.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7170	
5°	6839	631
15°	5654	1589
25°	4668	2121
35°	2660	1635
45°	740	610
55°	209	199
65°	41	46
75°	8	9
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7169.5
1°	7138.4
2°	7086.1
3°	7019.1
4°	6937.4
5°	6839.3
6°	6728.2
7°	6600.7
8°	6465.0
9°	6324.4
10°	6195.3
11°	6071.0
12°	5955.0
13°	5848.7
14°	5750.6
15°	5654.2
16°	5556.1
17°	5461.3
18°	5363.2
19°	5266.8
20°	5173.6
21°	5077.2
22°	4984.0
23°	4885.9
24°	4782.9
25°	4668.5
26°	4542.6
27°	4403.7
28°	4250.0
29°	4078.4
30°	3890.4
32.5°	3339.6
35°	2659.6
37.5°	1969.7
40°	1394.3
42.5°	998.8
45°	740.5
47.5°	557.4
50°	411.9
52.5°	294.2
55°	209.2
57.5°	143.8
60°	94.8
62.5°	62.1
65°	40.9



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	27.8
70°	18.0
72.5°	11.4
75°	8.2
77.5°	4.9
80°	3.3
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0

(END OF REPORT)