

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: P251475

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70935 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6434.0 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

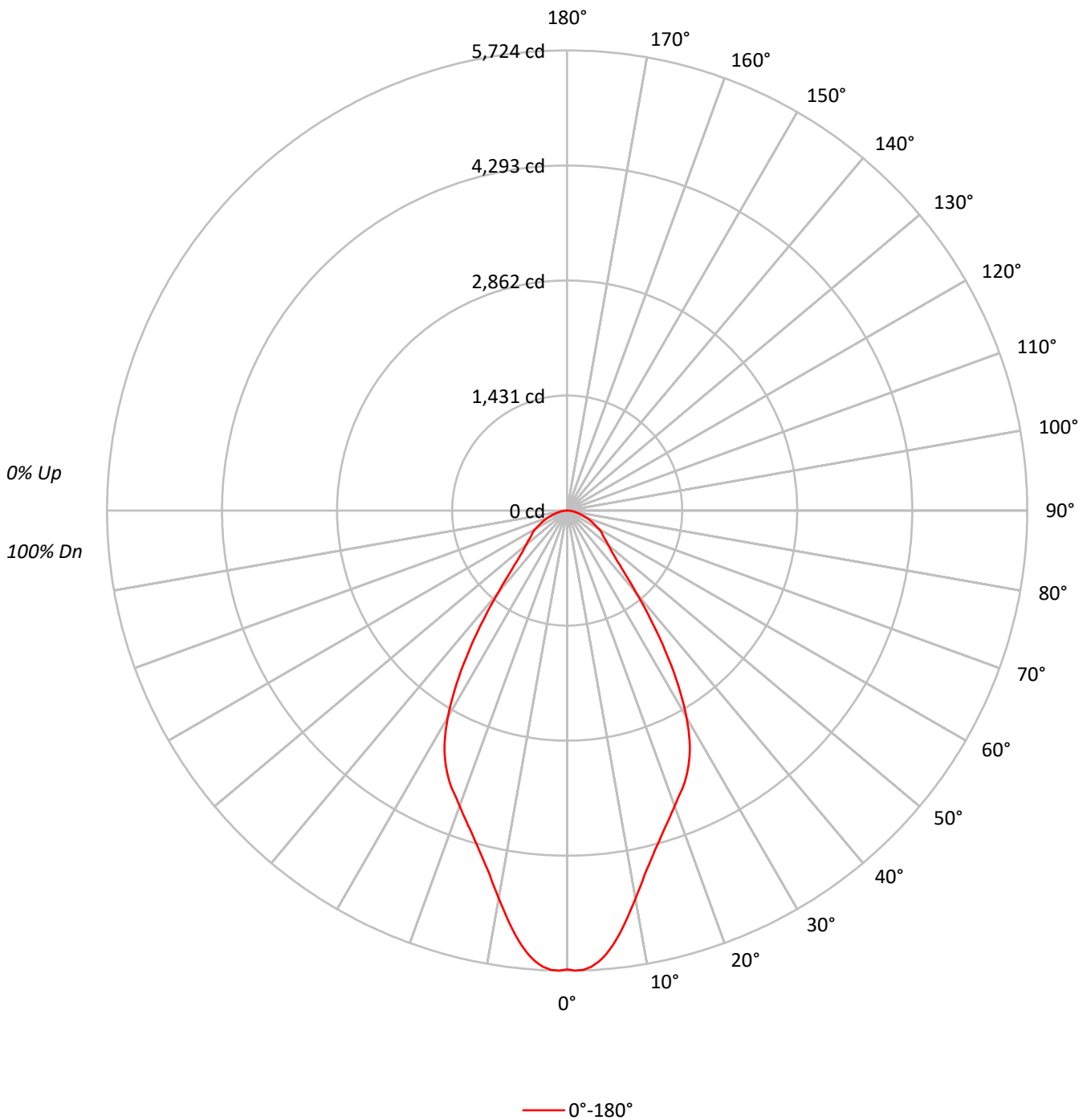
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251475

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBM0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P251475

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBM0MW

**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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

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

	0°
0°	175998
5°	171535
10°	153351
15°	137807
20°	128334
25°	120901
30°	105709
35°	80096
40°	53795
45°	37918
50°	32156
55°	29322
60°	27784
65°	24998
70°	22486
75°	20218
80°	17811
85°	17160



TEST NUMBER: P251475

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBM0MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.2	7.9
10°-20°	1217.4	18.9
20°-30°	1613.2	25.1
30°-40°	1322.8	20.6
40°-50°	704.7	11.0
50°-60°	495.9	7.7
60°-70°	342.0	5.3
70°-80°	178.1	2.8
80°-90°	52.7	0.8
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°	3337.8	51.9
0°-40°	4660.6	72.4
0°-60°	5861.2	91.1
0°-90°	6434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5708	
5°	5542	507
15°	4317	1217
25°	3553	1613
35°	2128	1323
45°	870	705
55°	545	496
65°	343	342
75°	170	178
85°	48	53
90°	0	



TEST NUMBER: P251475

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBM0MW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5707.5
1°	5723.7
2°	5716.8
3°	5682.9
4°	5625.0
5°	5541.6
6°	5437.5
7°	5312.4
8°	5178.3
9°	5035.5
10°	4897.5
11°	4765.5
12°	4631.3
13°	4519.5
14°	4413.5
15°	4316.7
16°	4225.5
17°	4141.4
18°	4063.4
19°	3985.5
20°	3910.8
21°	3838.1
22°	3774.7
23°	3709.9
24°	3633.7
25°	3553.4
26°	3462.4
27°	3359.8
28°	3244.2
29°	3116.0
30°	2968.8
31°	2814.4
32°	2652.4
33°	2479.5
34°	2306.0
35°	2127.7
37.5°	1704.9
40°	1336.4
42.5°	1055.4
45°	869.5
47.5°	746.7
50°	670.3
52.5°	603.3
55°	545.4
57.5°	510.0



TEST NUMBER: P251475

CATALOG NUMBER: LSR8B70D010 EC8B70935 8LBM0MW

**CANDELA DISTRIBUTION (continued):**

	0°
60°	450.5
62.5°	392.8
65°	342.6
67.5°	297.9
70°	249.4
72.5°	208.2
75°	169.7
77.5°	122.8
80°	100.3
82.5°	72.6
85°	48.5
87.5°	22.5
90°	0.0

(END OF REPORT)