

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: P251223

Luminaire Tested: **LSR8B70D010 EC8B70835 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70835 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6742.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

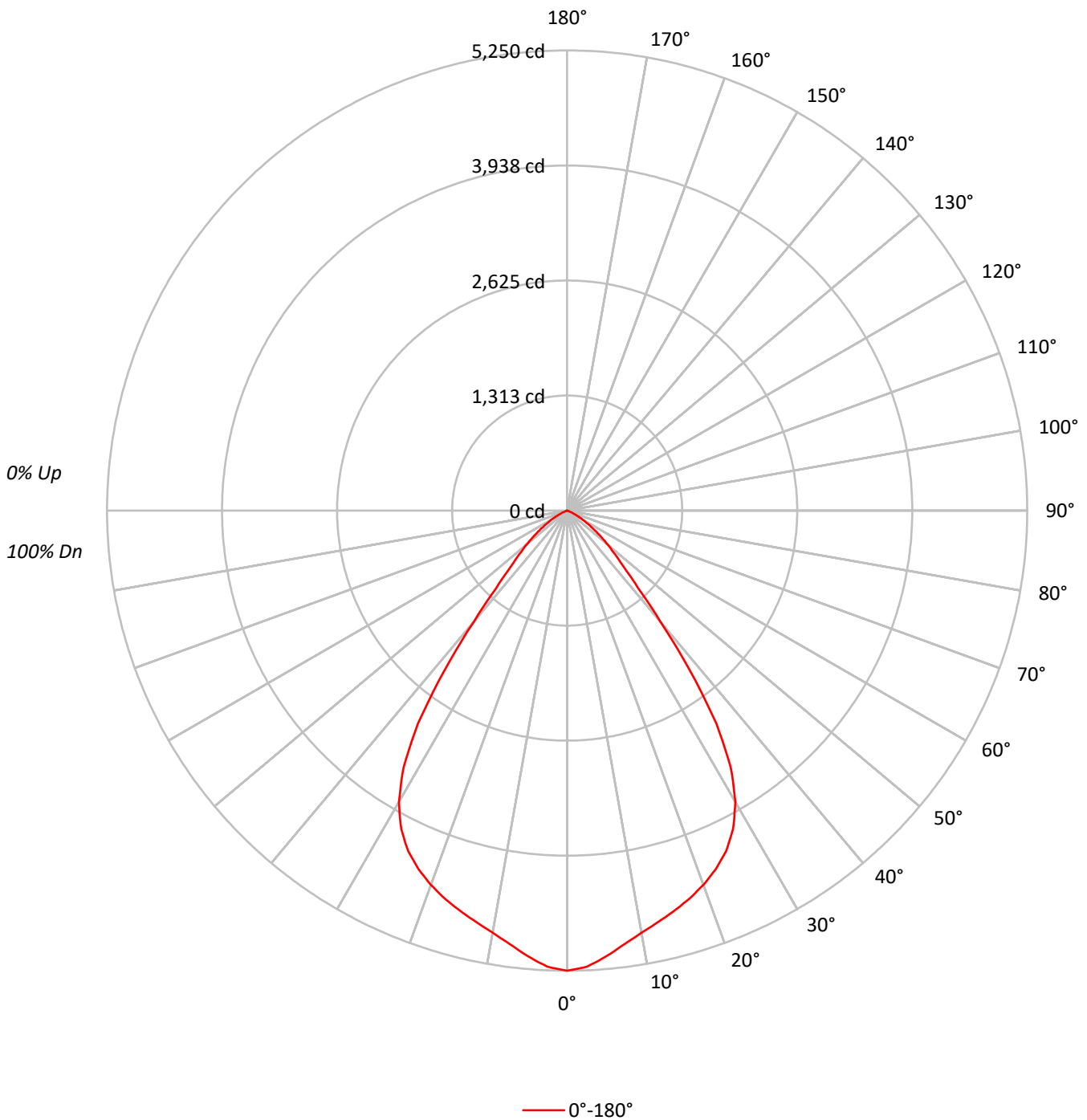
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251223

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P251223

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBW0GPH

**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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65	64
6	83	73	66	61	82	72	66	61	71	65	61	69	64	60	68	63	60	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51	49
9	70	59	52	48	69	58	52	48	57	52	48	57	51	47	56	51	47	46
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

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

	0°
0°	161881
5°	158055
10°	153100
15°	150886
20°	149110
25°	145906
30°	136662
35°	111589
40°	66620
45°	40011
50°	28836
55°	19628
60°	12310
65°	6034
70°	1533
75°	584
80°	426
85°	0



TEST NUMBER: P251223

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBW0GPH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	480.4	7.1
10°-20°	1333.8	19.8
20°-30°	1958.7	29.1
30°-40°	1775.6	26.3
40°-50°	760.1	11.3
50°-60°	336.3	5.0
60°-70°	89.7	1.3
70°-80°	7.0	0.1
80°-90°	0.3	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°	3772.9	56.0
0°-40°	5548.5	82.3
0°-60°	6645.0	98.6
0°-90°	6742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5250	
5°	5106	480
15°	4726	1334
25°	4288	1959
35°	2964	1776
45°	918	760
55°	365	336
65°	83	90
75°	5	7
85°	0	0
90°	0	



TEST NUMBER: P251223

CATALOG NUMBER: LSR8B70D010 EC8B70835 8LBW0GPH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5249.7
2.5°	5208.3
5°	5106.1
7.5°	4989.3
10°	4889.5
12.5°	4806.7
15°	4726.4
17.5°	4641.2
20°	4543.9
22.5°	4429.5
25°	4288.3
27.5°	4098.5
30°	3838.1
32.5°	3473.0
35°	2964.3
37.5°	2297.5
40°	1655.0
42.5°	1195.0
45°	917.5
47.5°	739.9
50°	601.1
52.5°	477.0
55°	365.1
57.5°	272.6
60°	199.6
62.5°	138.7
65°	82.7
67.5°	36.5
70°	17.0
72.5°	9.7
75°	4.9
77.5°	2.4
80°	2.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)