

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: P246491

Luminaire Tested: **LSR8B50D010 EC8B50850 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246491  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-17)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B50D010 EC8B50850 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5082.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

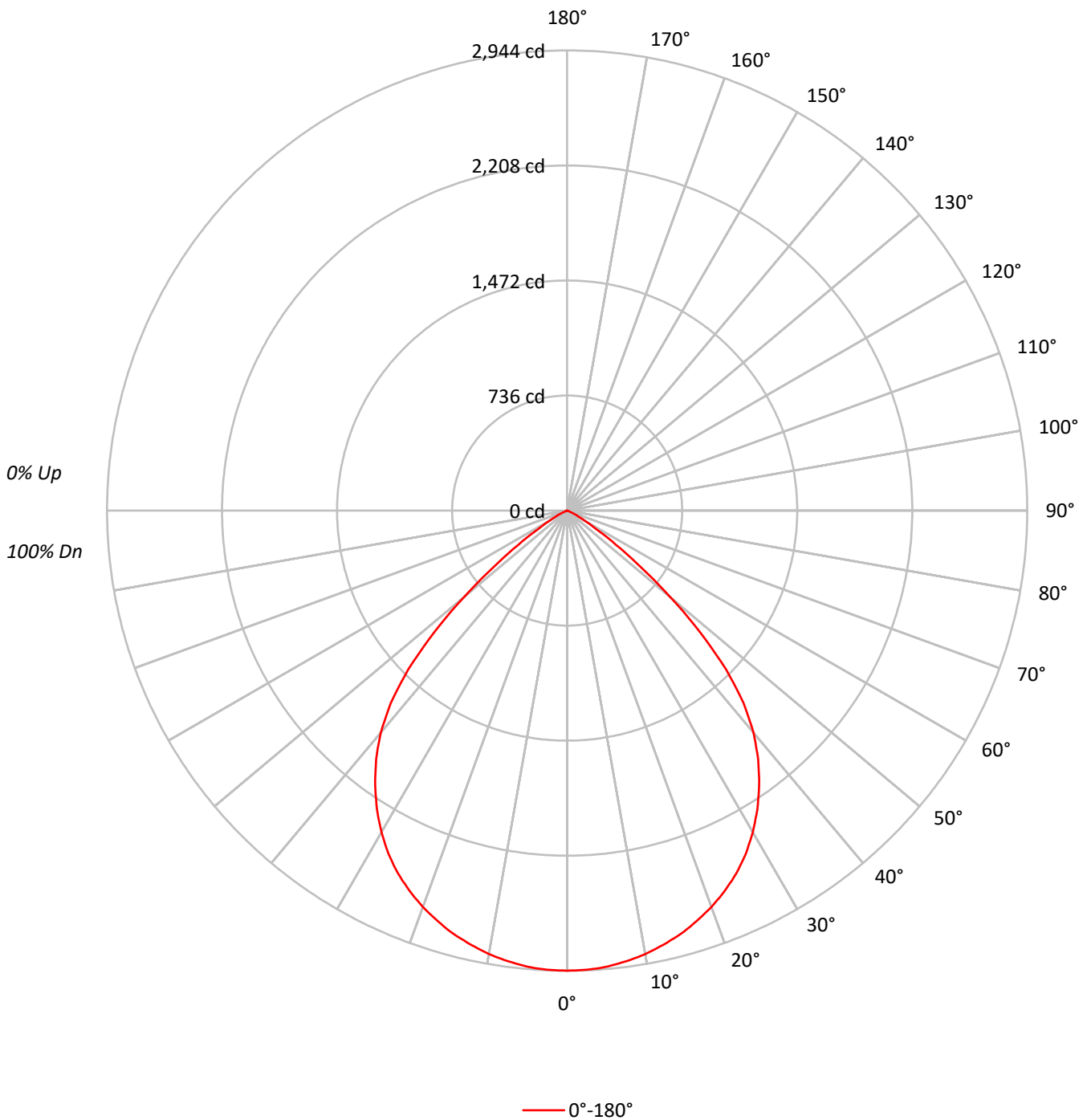
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P246491

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBS0B

### Luminous Intensity Polar Plot





TEST NUMBER: P246491

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBS0B

**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	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	54	49	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°
0°	90782
5°	90683
10°	90207
15°	89553
20°	88562
25°	87163
30°	84605
35°	80623
40°	74675
45°	62658
50°	41425
55°	20451
60°	8116
65°	3159
70°	487
75°	0
80°	0
85°	0



TEST NUMBER: P246491

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBS0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.0	5.5
10°-20°	790.7	15.6
20°-30°	1176.9	23.2
30°-40°	1333.0	26.2
40°-50°	1077.7	21.2
50°-60°	373.8	7.4
60°-70°	51.1	1.0
70°-80°	0.7	0.0
80°-90°	0.0	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°	2245.7	44.2
0°-40°	3578.7	70.4
0°-60°	5030.2	99.0
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2944	
5°	2930	278
15°	2805	791
25°	2562	1177
35°	2142	1333
45°	1437	1078
55°	380	374
65°	43	51
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P246491

CATALOG NUMBER: LSR8B50D010 EC8B50850 8LBS0B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2944.0
2.5°	2940.4
5°	2929.6
7.5°	2907.9
10°	2880.9
12.5°	2844.8
15°	2805.2
17.5°	2754.7
20°	2698.8
22.5°	2633.9
25°	2561.8
27.5°	2475.3
30°	2376.1
32.5°	2264.3
35°	2141.7
37.5°	2006.5
40°	1855.1
42.5°	1669.4
45°	1436.8
47.5°	1155.6
50°	863.5
52.5°	591.3
55°	380.4
57.5°	225.4
60°	131.6
62.5°	77.5
65°	43.3
67.5°	19.8
70°	5.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)