

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: P247796

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247796  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150927 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13417.9 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

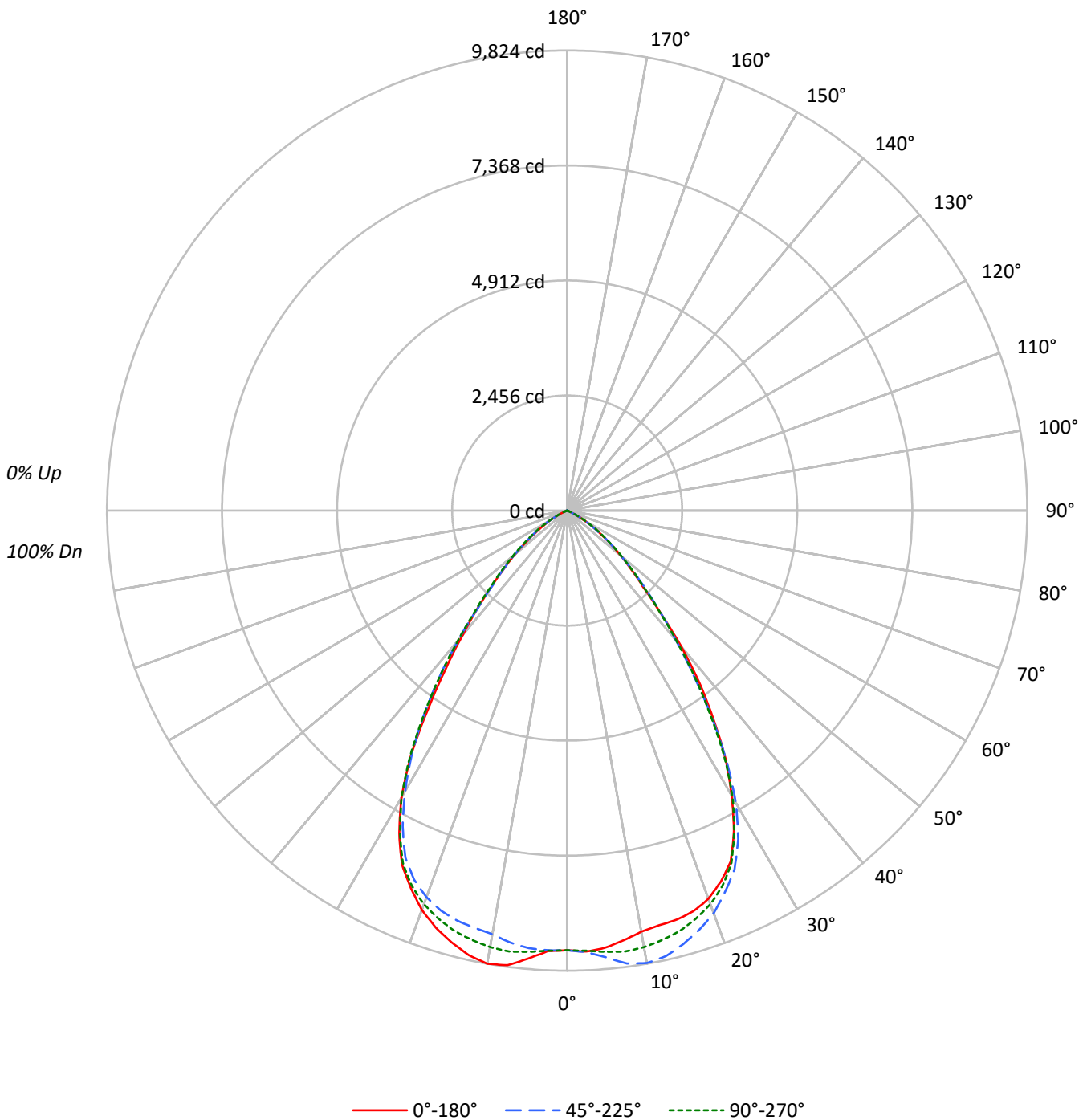
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247796

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P247796

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBW0LI

**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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

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

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P247796

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBWOLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	904.4	6.7
10°-20°	2619.1	19.5
20°-30°	3756.8	28.0
30°-40°	3315.2	24.7
40°-50°	1835.6	13.7
50°-60°	808.9	6.0
60°-70°	163.4	1.2
70°-80°	12.3	0.1
80°-90°	2.3	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°	7280.3	54.3
0°-40°	10595.5	79.0
0°-60°	13239.9	98.7
0°-90°	13417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13417.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9384	9384	9384	9384	9384	
5°	9368	9574	9456	9380	9602	886
15°	9043	9581	9292	9065	9540	2551
25°	8265	8451	8300	8176	8344	3734
35°	5457	5378	5339	5343	5178	3385
45°	2270	2366	2326	2239	2251	1849
55°	886	882	912	865	828	812
65°	115	124	143	130	121	159
75°	12	12	9	10	14	11
85°	9	5	2	7	3	4
90°	0	0	0	0	0	



TEST NUMBER: P247796

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9384.4	9384.4	9384.4	9384.4	9384.4	9384.4	9384.4	9384.4	9384.4
2.5°	9423.6	9384.4	9436.1	9404.0	9406.4	9357.8	9396.1	9432.9	9412.5
5°	9367.9	9404.0	9574.0	9569.2	9456.4	9309.9	9379.7	9547.3	9602.1
7.5°	9252.8	9382.8	9751.7	9785.5	9495.6	9187.0	9300.6	9649.9	9789.4
10°	9127.5	9314.7	9810.6	9876.3	9463.5	9056.9	9185.4	9625.6	9823.8
12.5°	9067.2	9248.1	9742.4	9805.8	9389.8	8994.3	9124.3	9533.2	9717.3
15°	9042.9	9179.1	9580.9	9639.0	9291.9	8959.1	9064.8	9399.3	9540.2
17.5°	8969.2	9063.2	9381.3	9418.1	9136.8	8872.9	8955.9	9212.1	9335.0
20°	8819.6	8882.2	9149.4	9169.0	8942.6	8718.5	8782.8	8984.9	9068.7
22.5°	8572.8	8614.4	8811.8	8818.8	8670.7	8476.5	8529.8	8688.0	8719.3
25°	8265.0	8268.9	8450.7	8416.9	8300.2	8120.0	8175.7	8311.2	8344.1
27.5°	7711.2	7724.5	7908.5	7864.0	7726.0	7569.3	7603.9	7727.6	7760.5
30°	7024.2	7098.6	7205.2	7183.2	7064.9	6907.5	6914.5	7036.0	7071.2
32.5°	6301.9	6280.0	6334.9	6318.4	6257.2	6132.7	6174.2	6205.6	6214.2
35°	5456.7	5438.7	5378.4	5302.5	5339.2	5387.7	5343.2	5274.2	5177.8
37.5°	4644.4	4543.3	4425.9	4346.8	4477.5	4528.5	4484.6	4335.0	4257.4
40°	3782.7	3676.2	3612.7	3593.1	3632.3	3670.0	3620.6	3547.7	3471.0
42.5°	2917.1	2916.3	2932.0	2928.2	2901.5	2847.4	2808.2	2839.6	2827.0
45°	2270.1	2305.4	2366.4	2376.7	2325.7	2246.6	2238.8	2268.6	2250.6
47.5°	1847.9	1860.4	1882.4	1913.7	1884.7	1844.8	1824.4	1833.8	1817.3
50°	1490.0	1493.0	1503.2	1526.7	1515.7	1488.4	1468.8	1457.0	1450.7
52.5°	1170.3	1163.2	1171.1	1178.9	1193.9	1175.7	1159.3	1134.2	1114.6
55°	885.9	880.4	882.0	888.3	911.8	891.4	864.8	848.4	828.0
57.5°	643.2	625.1	629.0	650.1	672.1	663.5	640.0	613.4	588.3
60°	433.2	429.3	428.5	451.2	467.7	464.5	437.8	418.3	409.7
62.5°	256.2	253.8	260.1	270.2	289.8	275.7	257.7	247.5	244.4
65°	115.2	120.6	123.8	131.6	143.3	140.2	130.0	119.0	120.6
67.5°	50.2	38.4	43.1	48.6	45.4	47.8	42.3	44.7	43.1
70°	24.3	25.9	24.3	30.6	28.2	29.8	24.3	29.0	22.7
72.5°	17.2	14.8	18.8	21.9	18.8	21.9	19.6	14.8	11.7
75°	11.7	7.1	11.7	7.1	8.7	12.5	9.5	12.5	14.1
77.5°	1.6	5.5	2.4	3.2	1.6	3.9	3.9	2.4	7.1
80°	1.6	2.4	1.6	3.2	4.7	0.8	3.2	7.1	0.0
82.5°	5.5	0.0	0.8	0.0	0.8	1.6	0.0	1.6	0.0
85°	8.7	2.4	4.7	10.9	2.4	4.7	7.1	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)