

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: P248111

Luminaire Tested: **LSR8B150D010 EC8B150935 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248111  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B150935 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14232.0 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

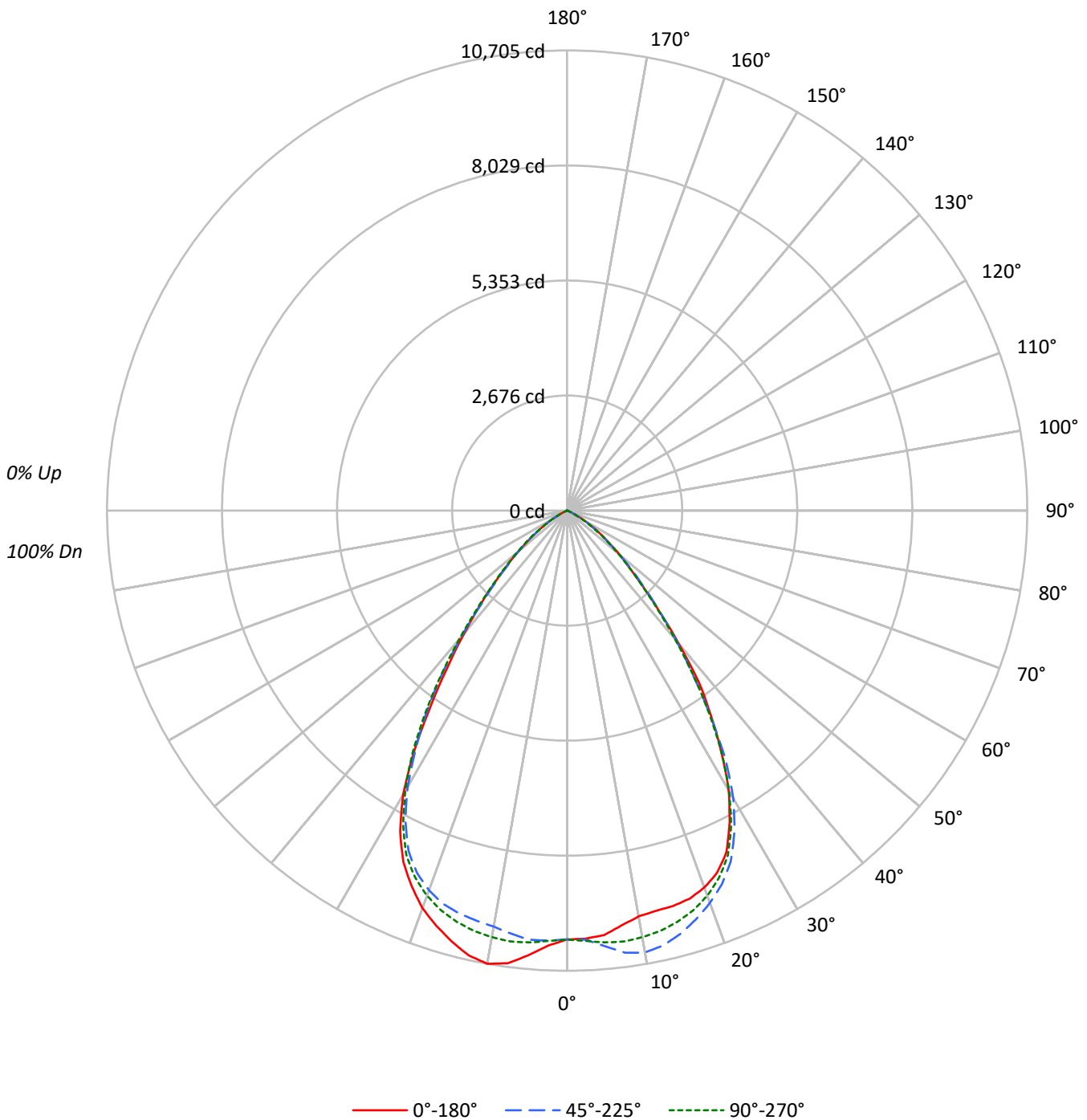
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P248111

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P248111

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0WH

**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	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			
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92					92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84					84			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76					76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69					69			
5	88	78	72	67	86	77	71	66	76	70	66	74	69	65	72	68	65	63					63			
6	83	72	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58					58			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53					53			
8	73	63	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49					49			
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45					45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42					42			

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

	0°	90°	180°
0°	307663	307663	307663
5°	306752	312110	321431
10°	300154	315534	335186
15°	303924	316256	331257
20°	306196	312858	322985
25°	298354	301141	306914
30°	267627	268325	271544
35°	219861	216620	207246
40°	162437	157184	149149
45°	107732	106917	105316
50°	76214	72899	71182
55°	50934	46348	43826
60°	28665	24879	22665
65°	11076	7968	6596
70°	3228	1848	1542
75°	917	512	608
80°	0	0	0
85°	601	0	0



TEST NUMBER: P248111

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	965.1	6.8
10°-20°	2798.9	19.7
20°-30°	4019.4	28.2
30°-40°	3552.9	25.0
40°-50°	1944.8	13.7
50°-60°	800.7	5.6
60°-70°	143.5	1.0
70°-80°	6.2	0.0
80°-90°	0.5	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°	7783.4	54.7
0°-40°	11336.3	79.7
0°-60°	14081.8	98.9
0°-90°	14232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9977	9977	9977	9977	9977	
5°	9910	10176	10083	10022	10384	934
15°	9520	10193	9906	9702	10376	2689
25°	8769	9006	8851	8734	9020	3966
35°	5840	5788	5754	5676	5505	3623
45°	2470	2543	2452	2347	2415	1988
55°	947	903	862	834	815	859
65°	152	118	109	88	90	177
75°	8	3	4	5	5	12
85°	2	2	0	5	0	0
90°	0	0	0	0	0	



TEST NUMBER: P248111

CATALOG NUMBER: LSR8B150D010 EC8B150935 8LBW0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	9977.3	9977.3	9977.3	9977.3	9977.3	9977.3	9977.3	9977.3	9977.3
2.5°	9964.5	9982.4	9990.9	10036.1	10020.8	9999.5	10011.4	10048.1	10127.4
5°	9909.9	10005.4	10176.0	10234.0	10083.0	9951.7	10021.6	10222.0	10384.1
7.5°	9730.0	9970.5	10373.8	10461.7	10112.0	9810.1	9932.1	10364.4	10620.3
10°	9585.9	9884.3	10438.6	10569.1	10077.1	9686.5	9828.9	10357.6	10704.7
12.5°	9537.3	9812.7	10356.8	10504.3	10018.2	9643.0	9768.4	10257.8	10597.2
15°	9520.2	9741.1	10193.0	10311.6	9906.5	9600.4	9701.8	10095.0	10376.4
17.5°	9467.3	9631.9	9968.8	10065.1	9753.0	9515.9	9594.4	9899.7	10125.7
20°	9330.9	9470.7	9712.9	9780.3	9533.9	9347.9	9398.3	9627.7	9842.5
22.5°	9117.7	9208.1	9404.2	9436.6	9241.4	9093.0	9124.5	9295.9	9452.8
25°	8768.9	8832.0	9006.0	9014.5	8850.8	8721.2	8734.0	8877.2	9020.5
27.5°	8182.2	8301.6	8429.5	8466.2	8260.7	8108.9	8148.1	8243.6	8411.6
30°	7516.2	7604.1	7729.4	7701.3	7535.8	7399.4	7415.6	7500.9	7626.2
32.5°	6685.6	6778.6	6842.5	6784.6	6701.0	6579.0	6542.4	6579.0	6613.1
35°	5840.5	5872.1	5788.5	5755.3	5754.4	5716.9	5676.0	5565.1	5505.4
37.5°	5033.8	4934.9	4784.8	4720.9	4794.2	4885.5	4762.7	4617.7	4542.6
40°	4035.3	4037.8	3944.0	3877.5	3904.8	3874.1	3820.4	3727.4	3705.2
42.5°	3154.4	3163.7	3193.6	3156.1	3090.4	2990.6	2960.8	2965.0	3030.7
45°	2470.4	2489.2	2542.9	2537.8	2451.7	2388.6	2346.8	2405.6	2415.0
47.5°	1964.8	1991.2	2013.4	2011.7	1945.1	1882.0	1863.3	1874.4	1897.4
50°	1588.7	1586.1	1569.1	1546.9	1519.6	1506.8	1485.5	1483.8	1483.8
52.5°	1223.7	1228.0	1193.9	1195.6	1182.8	1147.0	1137.6	1118.8	1118.8
55°	947.4	930.4	903.1	876.6	862.1	837.4	834.0	814.4	815.2
57.5°	672.8	657.5	625.1	608.9	597.8	591.0	576.5	561.1	554.3
60°	464.8	452.0	434.1	417.9	403.4	399.9	386.3	371.0	367.5
62.5°	280.6	277.1	245.6	239.6	228.5	223.4	214.0	203.8	204.7
65°	151.8	129.6	118.5	111.7	109.2	95.5	87.8	86.1	90.4
67.5°	40.9	40.9	33.3	31.6	31.6	23.0	26.4	25.6	33.3
70°	35.8	25.6	22.2	17.9	20.5	11.9	22.2	17.9	17.1
72.5°	18.8	10.2	8.5	8.5	9.4	6.0	13.6	7.7	6.0
75°	7.7	5.1	3.4	1.7	4.3	4.3	5.1	1.7	5.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	2.6	1.7	0.0	0.0	0.0	5.1	0.0	0.0
87.5°	0.0	1.7	0.9	0.0	0.0	0.0	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)