

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: P247775

Luminaire Tested: **LSR8B150D010 EC8B150840 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247775
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 EC8B150840 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17017.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

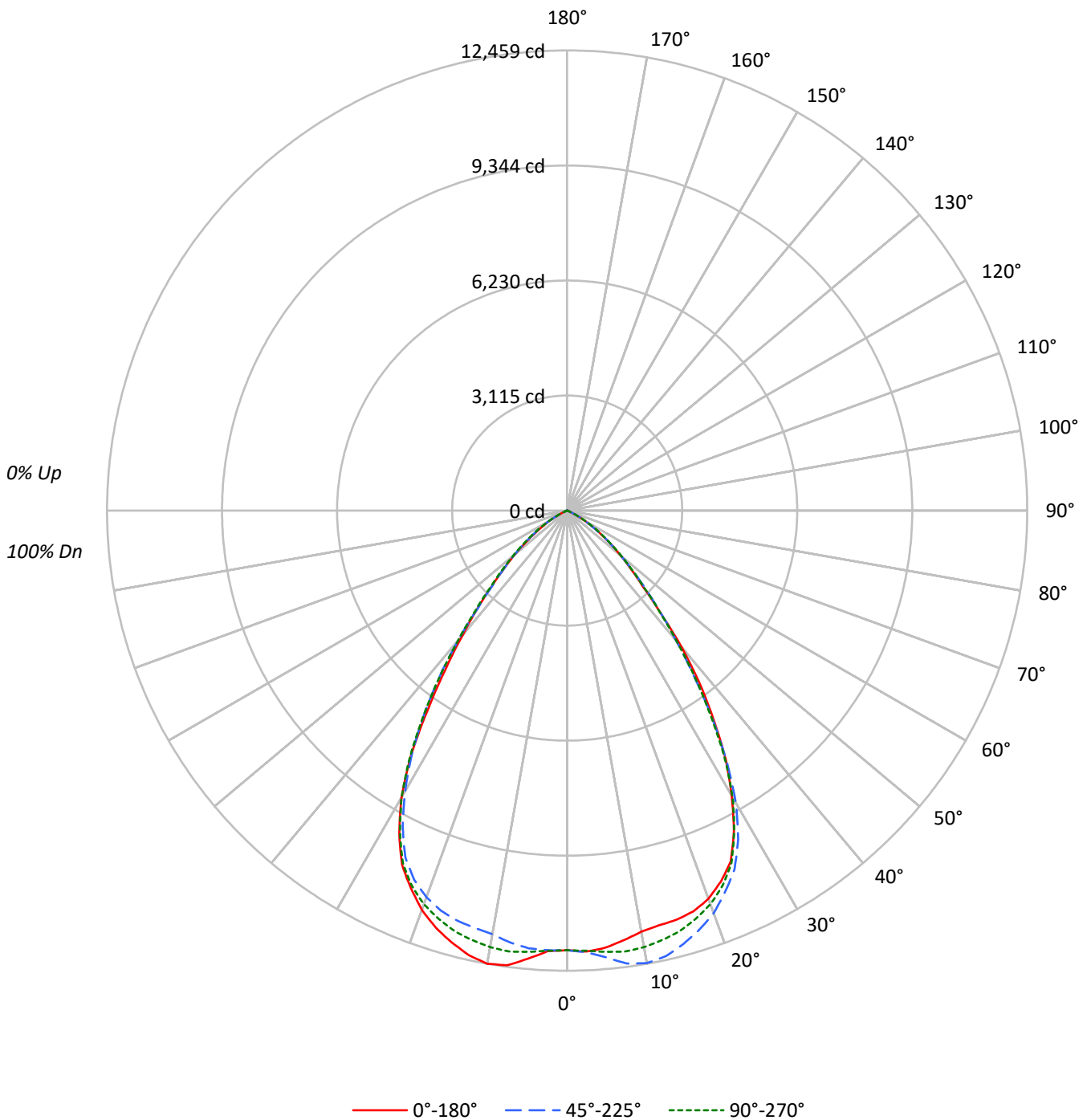
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247775

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0LI

Luminous Intensity Polar Plot





TEST NUMBER: P247775

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBWOLI

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	367001	367001	367001
5°	367756	371233	376953
10°	362458	375804	390113
15°	366118	376206	386259
20°	367049	372168	377416
25°	356637	358158	360053
30°	317195	319036	319317
35°	260513	254904	247198
40°	193114	185434	177198
45°	125551	128630	124469
50°	90649	92218	88265
55°	60406	62170	56455
60°	33883	36578	32045
65°	10653	13265	11164
70°	2777	3228	2597
75°	1775	1299	2133
80°	355	1065	0
85°	3856	1061	1415



TEST NUMBER: P247775

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBWOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.9	6.7
10°-20°	3321.7	19.5
20°-30°	4764.6	28.0
30°-40°	4204.4	24.7
40°-50°	2327.9	13.7
50°-60°	1025.8	6.0
60°-70°	207.3	1.2
70°-80°	15.5	0.1
80°-90°	2.9	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°	9233.2	54.3
0°-40°	13437.6	79.0
0°-60°	16791.3	98.7
0°-90°	17017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17017.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11902	11902	11902	11902	11902	
5°	11881	12142	11993	11896	12178	###
15°	11468	12151	11784	11496	12099	3235
25°	10482	10717	10527	10369	10582	4735
35°	6920	6821	6771	6776	6567	4293
45°	2879	3001	2950	2839	2854	2345
55°	1124	1119	1156	1097	1050	1030
65°	146	157	182	165	153	201
75°	15	15	11	12	18	14
85°	11	6	3	9	4	5
90°	0	0	0	0	0	



TEST NUMBER: P247775

CATALOG NUMBER: LSR8B150D010 EC8B150840 8LBW0LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11901.6	11901.6	11901.6	11901.6	11901.6	11901.6	11901.6	11901.6	11901.6
2.5°	11951.3	11901.6	11967.2	11926.4	11929.4	11867.8	11916.5	11963.2	11937.3
5°	11880.7	11926.4	12142.0	12136.0	11993.0	11807.2	11895.6	12108.2	12177.8
7.5°	11734.7	11899.6	12367.5	12410.2	12042.7	11651.2	11795.3	12238.4	12415.2
10°	11575.7	11813.2	12442.0	12525.5	12001.9	11486.3	11649.2	12207.6	12458.9
12.5°	11499.2	11728.7	12355.6	12436.1	11908.5	11406.8	11571.8	12090.3	12323.8
15°	11468.4	11641.3	12150.9	12224.5	11784.4	11362.1	11496.3	11920.5	12099.3
17.5°	11375.1	11494.3	11897.6	11944.3	11587.7	11252.9	11358.2	11683.0	11839.0
20°	11185.3	11264.8	11603.5	11628.4	11341.3	11057.1	11138.6	11394.9	11501.2
22.5°	10872.4	10925.0	11175.4	11184.3	10996.5	10750.2	10817.7	11018.4	11058.1
25°	10481.9	10486.9	10717.4	10674.7	10526.6	10298.1	10368.7	10540.6	10582.3
27.5°	9779.6	9796.5	10029.9	9973.3	9798.4	9599.8	9643.5	9800.4	9842.2
30°	8908.3	9002.7	9137.8	9110.0	8960.0	8760.3	8769.2	8923.2	8967.9
32.5°	7992.3	7964.5	8034.1	8013.2	7935.7	7777.8	7830.4	7870.1	7881.1
35°	6920.4	6897.6	6821.1	6724.7	6771.4	6833.0	6776.4	6688.9	6566.7
37.5°	5890.2	5762.0	5613.0	5512.7	5678.6	5743.2	5687.5	5497.8	5399.4
40°	4797.4	4662.3	4581.8	4557.0	4606.6	4654.3	4591.7	4499.4	4402.0
42.5°	3699.6	3698.6	3718.5	3713.5	3679.8	3611.2	3561.5	3601.3	3585.4
45°	2879.0	2923.7	3001.2	3014.1	2949.6	2849.2	2839.3	2877.0	2854.2
47.5°	2343.6	2359.5	2387.3	2427.0	2390.3	2339.6	2313.8	2325.7	2304.8
50°	1889.6	1893.5	1906.4	1936.2	1922.3	1887.6	1862.7	1847.8	1839.9
52.5°	1484.2	1475.3	1485.2	1495.1	1514.0	1491.2	1470.3	1438.5	1413.7
55°	1123.6	1116.6	1118.6	1126.6	1156.4	1130.6	1096.8	1075.9	1050.1
57.5°	815.6	792.8	797.7	824.6	852.4	841.5	811.7	777.9	746.1
60°	549.4	544.4	543.4	572.2	593.1	589.1	555.3	530.5	519.6
62.5°	324.9	321.9	329.8	342.7	367.6	349.7	326.8	313.9	310.0
65°	146.0	153.0	157.0	166.9	181.8	177.8	164.9	151.0	153.0
67.5°	63.6	48.7	54.6	61.6	57.6	60.6	53.6	56.6	54.6
70°	30.8	32.8	30.8	38.7	35.8	37.8	30.8	36.8	28.8
72.5°	21.9	18.9	23.8	27.8	23.8	27.8	24.8	18.9	14.9
75°	14.9	8.9	14.9	8.9	10.9	15.9	11.9	15.9	17.9
77.5°	2.0	7.0	3.0	4.0	2.0	5.0	5.0	3.0	8.9
80°	2.0	3.0	2.0	4.0	6.0	1.0	4.0	8.9	0.0
82.5°	7.0	0.0	1.0	0.0	1.0	2.0	0.0	2.0	0.0
85°	10.9	3.0	6.0	13.9	3.0	6.0	8.9	4.0	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	3.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)