

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: P248192

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509727 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10111.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

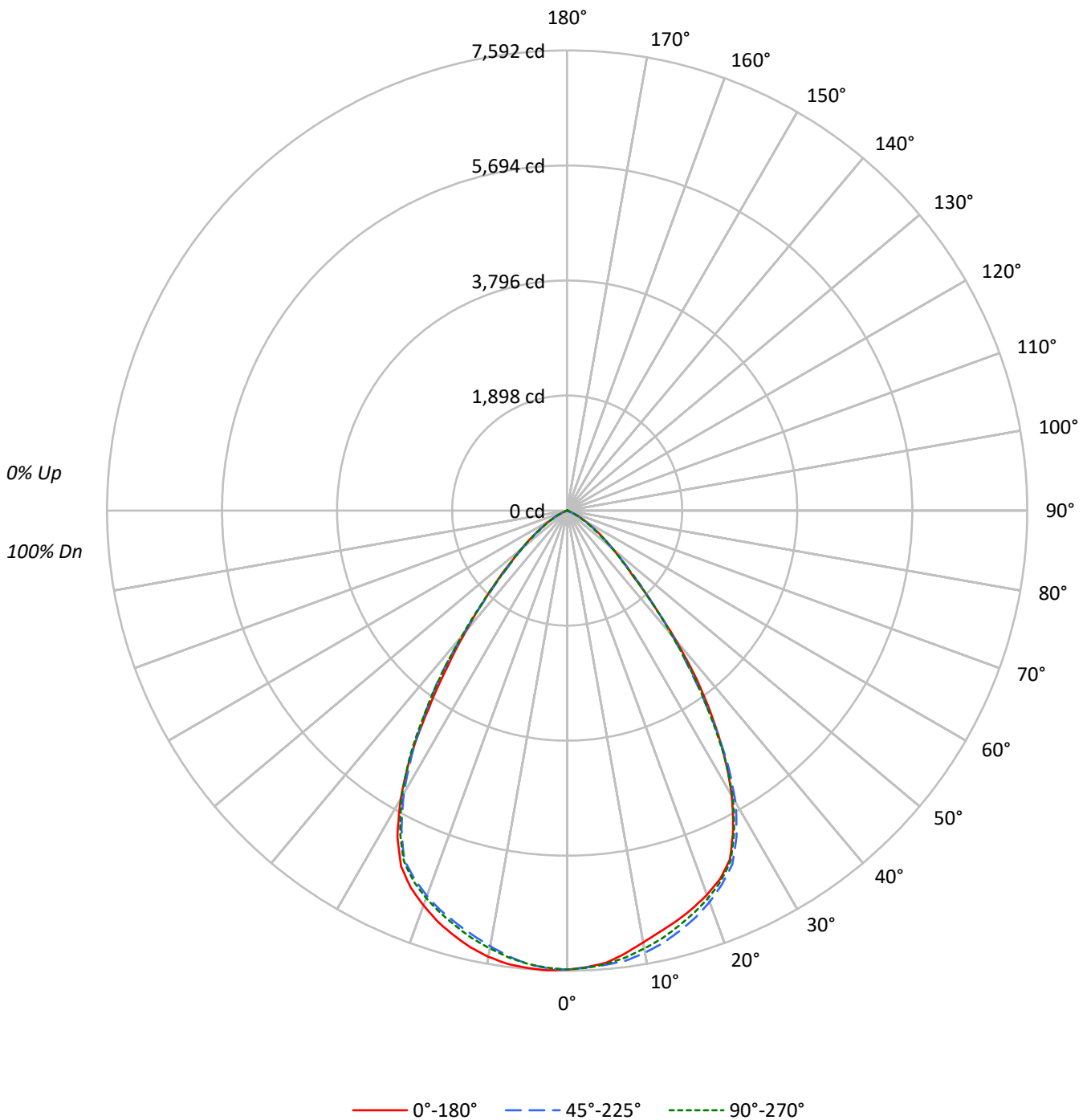
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248192

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248192

CATALOG NUMBER: LSR8B150D010 EC8B1509727 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	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	100	100	98	97	96	95	94	92	92	92	92			
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84	84	84	84			
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76	76	76	76			
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69	69	69	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53	53	53	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49	49	49	49			
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42	42	42	42			

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: P248192

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.1	7.0
10°-20°	2005.9	19.8
20°-30°	2892.6	28.6
30°-40°	2540.4	25.1
40°-50°	1284.6	12.7
50°-60°	525.8	5.2
60°-70°	138.2	1.4
70°-80°	9.8	0.1
80°-90°	1.8	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°	5610.6	55.5
0°-40°	8151.0	80.6
0°-60°	9961.3	98.5
0°-90°	10111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10111.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7573	7573	7573	7573	7573	
5°	7486	7520	7507	7507	7575	706
15°	7004	7178	7098	7052	7251	1976
25°	6352	6444	6378	6355	6480	2870
35°	4188	4116	4104	4087	3983	2582
45°	1563	1636	1590	1549	1622	1290
55°	595	571	553	552	570	550
65°	150	133	119	118	128	153
75°	4	3	8	3	5	11
85°	1	1	1	1	1	3
90°	0	0	0	0	0	



TEST NUMBER: P248192

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7573.0	7573.0	7573.0	7573.0	7573.0	7573.0	7573.0	7573.0	7573.0
2.5°	7538.2	7575.1	7542.4	7561.8	7548.6	7527.0	7557.0	7543.0	7591.8
5°	7486.0	7530.5	7520.1	7544.4	7506.8	7467.2	7506.8	7510.3	7575.1
7.5°	7366.9	7443.5	7487.3	7516.6	7433.7	7369.0	7416.3	7458.8	7542.4
10°	7233.9	7326.5	7405.9	7451.1	7336.2	7241.5	7297.9	7370.4	7475.5
12.5°	7111.3	7213.7	7307.7	7351.6	7230.4	7123.9	7177.5	7267.3	7380.1
15°	7004.1	7088.4	7177.5	7222.7	7098.1	6997.1	7052.2	7135.0	7250.6
17.5°	6881.6	6960.9	7039.6	7075.1	6959.5	6871.8	6921.9	6993.0	7107.9
20°	6744.4	6812.6	6872.5	6914.3	6803.6	6720.0	6765.3	6831.4	6931.0
22.5°	6583.5	6635.1	6674.1	6711.7	6621.8	6539.0	6578.0	6630.2	6735.3
25°	6352.4	6404.6	6443.6	6486.1	6378.1	6307.1	6355.2	6377.4	6479.8
27.5°	5929.0	5995.2	6053.7	6091.3	5968.0	5906.7	5919.3	5956.2	6064.8
30°	5433.3	5465.3	5554.4	5565.5	5461.1	5354.6	5388.7	5427.7	5491.7
32.5°	4844.2	4862.3	4913.8	4919.4	4841.4	4759.2	4759.9	4742.5	4807.3
35°	4188.3	4147.2	4116.5	4137.4	4104.0	4118.6	4086.6	4006.5	3982.9
37.5°	3510.8	3484.3	3349.9	3339.5	3417.5	3464.8	3433.5	3255.2	3242.7
40°	2777.6	2747.6	2697.5	2689.8	2700.3	2727.4	2669.6	2616.7	2600.7
42.5°	2078.5	2094.5	2110.5	2125.1	2095.2	2036.7	2033.9	2024.2	2061.8
45°	1563.2	1597.3	1636.3	1655.8	1589.7	1544.4	1549.3	1570.9	1621.7
47.5°	1235.9	1242.9	1257.5	1274.2	1235.2	1177.4	1192.8	1227.6	1249.9
50°	981.8	988.8	984.6	982.5	963.7	928.9	950.5	976.2	983.9
52.5°	774.3	765.2	757.6	752.7	740.9	726.9	731.1	752.7	764.5
55°	594.6	587.7	571.0	564.0	552.9	549.4	551.5	568.2	570.3
57.5°	447.0	437.3	420.6	407.3	408.0	402.5	405.2	417.1	423.4
60°	336.3	330.0	300.8	302.9	293.1	291.8	298.0	305.0	307.8
62.5°	232.6	234.7	212.4	209.6	204.7	205.4	209.6	215.2	215.9
65°	149.7	140.7	133.0	127.4	119.1	114.9	117.7	133.0	128.1
67.5°	58.5	62.0	50.1	58.5	54.3	46.0	52.9	59.2	56.4
70°	32.0	32.7	27.2	25.8	27.2	25.1	28.5	32.0	24.4
72.5°	20.2	20.2	14.6	14.6	18.8	12.5	14.6	23.0	18.1
75°	4.2	4.9	2.8	1.4	8.4	4.2	2.8	8.4	4.9
77.5°	0.0	4.9	0.0	0.0	0.0	0.0	1.4	1.4	1.4
80°	0.0	0.0	0.0	2.1	0.0	0.0	0.0	1.4	1.4
82.5°	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0
85°	1.4	5.6	1.4	0.0	1.4	1.4	0.7	4.2	1.4
87.5°	9.1	4.2	0.7	4.2	3.5	4.2	4.9	4.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)