

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: P248156

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B1509727 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12582.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

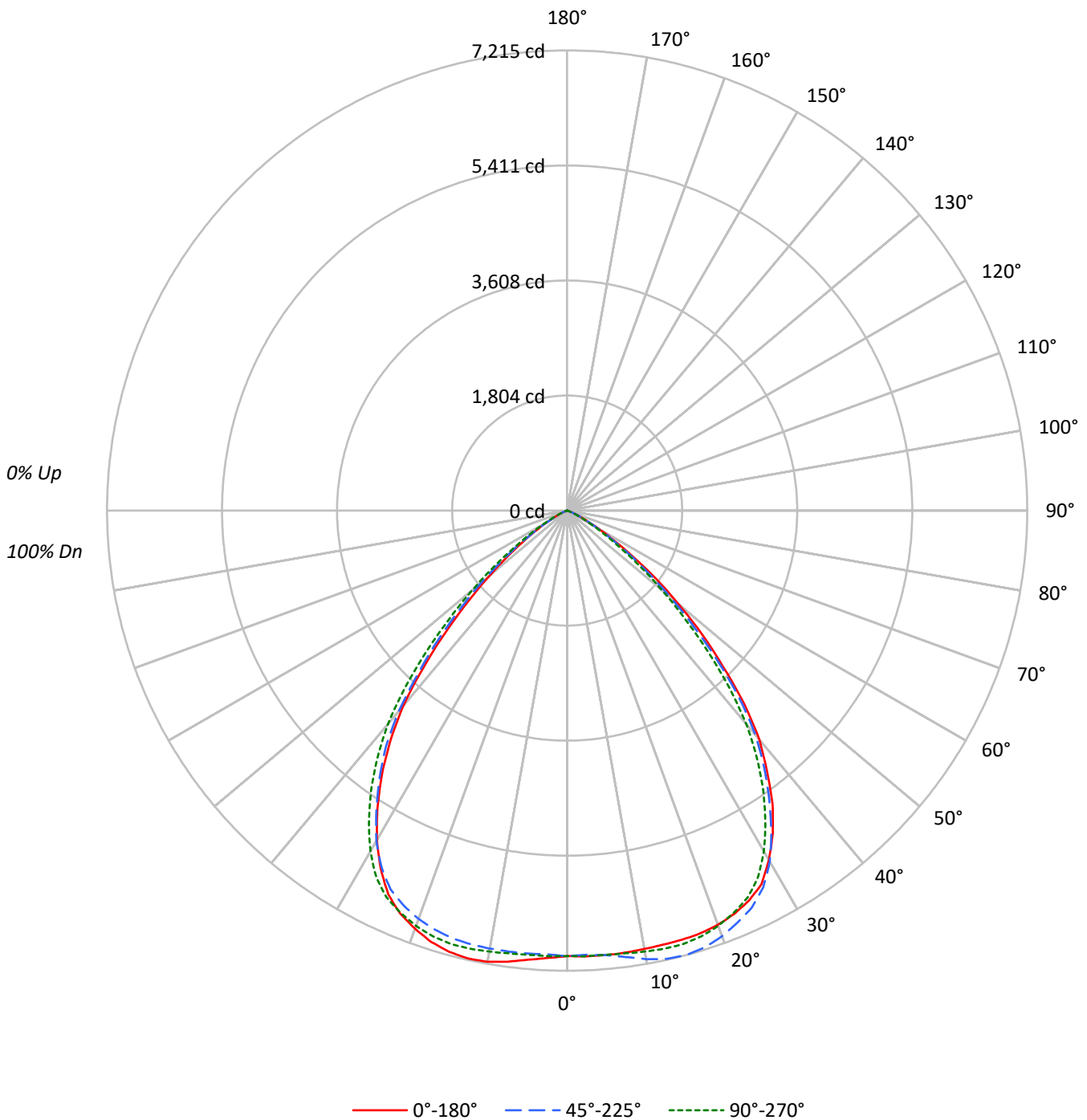
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248156

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248156

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBS0WH

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

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: P248156

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.7	5.3
10°-20°	1993.4	15.8
20°-30°	3064.0	24.4
30°-40°	3312.2	26.3
40°-50°	2383.4	18.9
50°-60°	961.8	7.6
60°-70°	184.9	1.5
70°-80°	11.0	0.1
80°-90°	1.6	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°	5727.2	45.5
0°-40°	9039.4	71.8
0°-60°	12384.5	98.4
0°-90°	12582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12582.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6985	6985	6985	6985	6985	
5°	6996	6998	6991	6970	7068	667
15°	6966	7215	7035	6943	7159	1971
25°	6747	6862	6696	6552	6638	3095
35°	5613	5524	5363	5132	5070	3476
45°	3452	3350	3108	2853	2693	2667
55°	1258	1164	1024	884	809	1173
65°	203	208	152	119	117	238
75°	10	8	6	6	6	17
85°	2	1	1	1	1	2
90°	0	0	0	0	0	



TEST NUMBER: P248156

CATALOG NUMBER: LSR8B150D010 EC8B1509727 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6985.1	6985.1	6985.1	6985.1	6985.1	6985.1	6985.1	6985.1	6985.1
2.5°	6995.5	6985.7	6971.8	6971.1	6993.4	6980.9	6965.6	6981.6	7021.3
5°	6995.5	6996.9	6997.6	6991.3	6990.6	6969.7	6970.4	7013.6	7067.9
7.5°	6990.6	7017.8	7060.2	7050.5	7001.8	6955.8	6974.6	7061.6	7134.1
10°	6979.5	7042.8	7140.3	7125.7	7021.3	6943.3	6973.2	7094.4	7182.1
12.5°	6969.7	7056.8	7200.9	7183.5	7037.3	6934.9	6964.9	7098.5	7193.2
15°	6965.6	7059.6	7214.8	7193.2	7035.2	6918.2	6942.6	7067.9	7159.1
17.5°	6950.2	7038.0	7180.0	7153.5	6999.0	6879.2	6889.7	7003.8	7090.2
20°	6911.2	6986.4	7102.7	7066.5	6929.3	6808.9	6812.4	6898.7	6976.7
22.5°	6845.1	6904.3	6988.5	6953.7	6825.6	6716.3	6701.7	6774.1	6839.5
25°	6746.9	6795.0	6862.5	6824.9	6696.1	6584.7	6552.0	6597.9	6637.6
27.5°	6602.8	6619.5	6657.8	6600.0	6480.9	6371.6	6303.4	6310.4	6331.2
30°	6325.7	6352.8	6356.3	6290.2	6171.1	6044.4	5981.7	5946.9	5963.6
32.5°	5999.8	5992.2	5957.3	5877.3	5784.0	5683.0	5564.6	5525.0	5534.0
35°	5613.4	5595.3	5524.3	5447.7	5363.4	5239.5	5131.6	5073.1	5070.3
37.5°	5142.7	5118.3	5071.7	4965.8	4888.6	4784.1	4666.4	4601.7	4553.0
40°	4689.4	4651.1	4596.1	4469.4	4371.9	4226.4	4105.9	4016.1	4002.9
42.5°	4104.6	4085.8	4007.1	3879.7	3757.8	3585.8	3445.9	3370.7	3331.7
45°	3452.1	3452.1	3349.8	3237.7	3107.5	2979.4	2852.6	2740.5	2693.2
47.5°	2868.0	2795.6	2698.8	2579.0	2483.6	2393.1	2258.7	2120.9	2088.8
50°	2273.3	2227.4	2113.2	1999.0	1940.5	1854.2	1748.4	1614.7	1580.5
52.5°	1756.7	1684.3	1585.4	1500.5	1445.5	1377.9	1263.0	1171.8	1154.4
55°	1258.2	1221.3	1163.5	1093.9	1023.5	952.5	884.3	832.1	809.1
57.5°	862.0	849.5	801.4	760.3	692.1	629.4	566.8	550.1	551.5
60°	564.0	563.3	539.6	502.7	443.5	386.4	357.2	348.8	354.4
62.5°	341.2	347.4	341.2	319.6	274.3	230.5	209.6	213.8	210.3
65°	203.3	209.6	207.5	179.6	152.5	133.7	119.1	113.5	117.0
67.5°	118.4	114.9	105.8	92.6	75.9	62.7	52.9	48.0	48.7
70°	52.2	49.4	44.6	34.1	25.8	20.9	17.4	16.0	16.7
72.5°	19.5	18.8	16.0	13.2	11.1	9.1	8.4	8.4	8.4
75°	10.4	9.7	8.4	7.0	6.3	6.3	6.3	6.3	6.3
77.5°	7.7	7.0	6.3	5.6	4.9	4.2	4.2	4.2	4.2
80°	5.6	4.9	4.2	3.5	3.5	2.8	2.8	2.8	2.8
82.5°	3.5	3.5	2.8	2.1	2.1	1.4	1.4	1.4	1.4
85°	2.1	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)