

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: P247397

Luminaire Tested: **LSR8B120D010 EC8B120840 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B120D010 EC8B120840 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12734.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

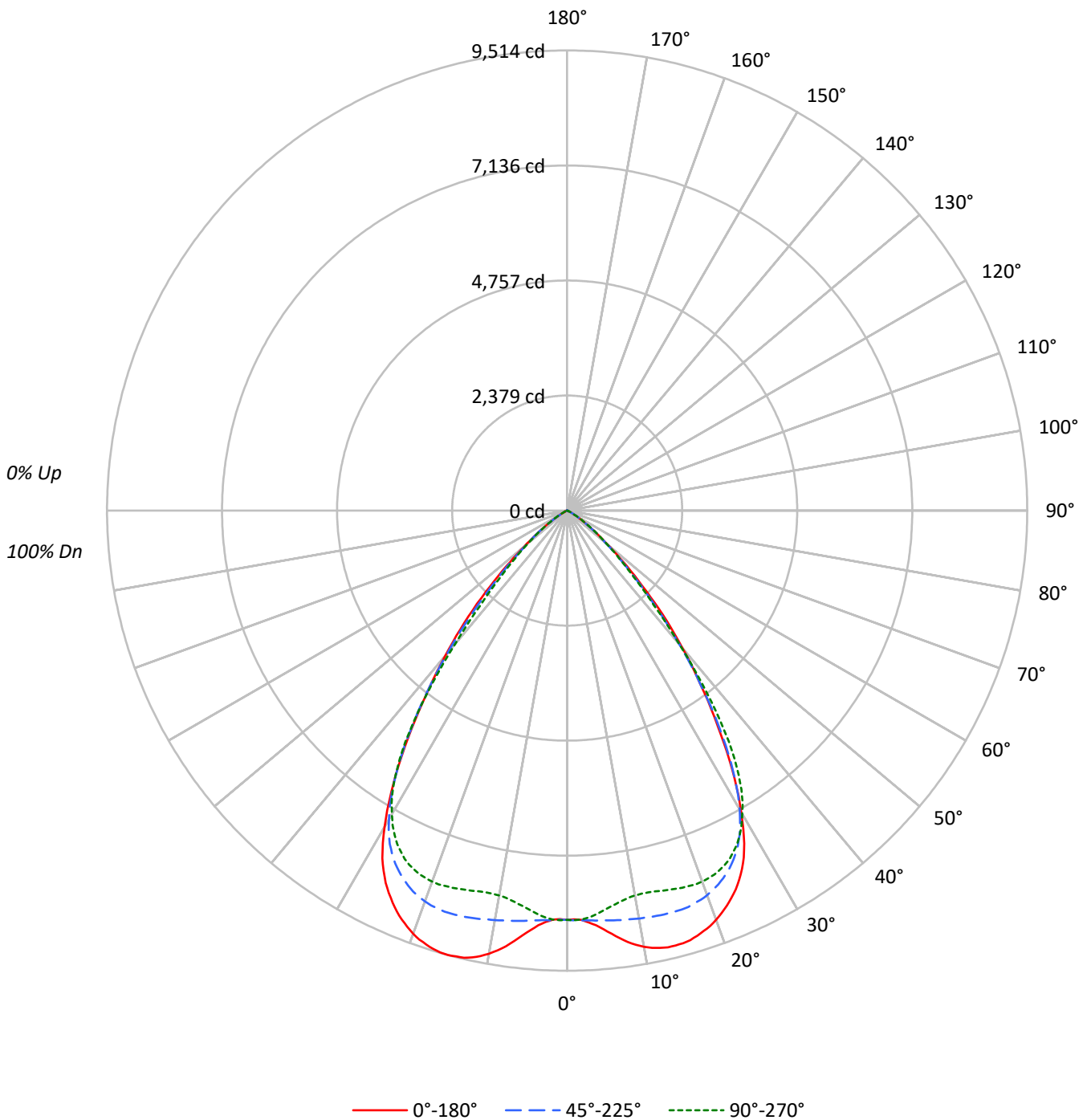
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247397

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P247397

CATALOG NUMBER: LSR8B120D010 EC8B120840 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	105	110	108	105	103	104	102	100	100	98	97	96	95	94					92				
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86					84				
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78					76				
4	94	85	79	74	92	84	79	74	82	77	73	80	76	72	78	74	71					70				
5	88	79	72	67	87	78	72	67	76	71	66	74	70	66	73	69	65					64				
6	83	73	66	61	81	72	66	61	71	65	61	69	64	60	68	63	60					58				
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55					53				
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51					49				
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	50	47					45				
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44					42				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	261008	261008	261008
5°	269019	257331	269462
10°	286765	252989	291267
15°	295588	259195	303732
20°	295577	267852	305606
25°	286524	270376	296803
30°	256450	257981	268738
35°	204254	219548	215626
40°	149229	145176	157767
45°	95338	84990	103650
50°	51576	50539	55375
55°	26483	27451	26483
60°	11527	11527	8424
65°	2364	3152	2627
70°	1614	2272	2588
75°	0	1287	0
80°	639	639	2557
85°	0	1274	0



TEST NUMBER: P247397

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.9	6.4
10°-20°	2454.7	19.3
20°-30°	3736.1	29.3
30°-40°	3476.9	27.3
40°-50°	1692.2	13.3
50°-60°	482.2	3.8
60°-70°	63.0	0.5
70°-80°	10.0	0.1
80°-90°	3.0	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°	7006.7	55.0
0°-40°	10483.6	82.3
0°-60°	12658.0	99.4
0°-90°	12734.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12734.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8464	8464	8464	8464	8464	
5°	8691	8500	8313	8508	8705	847
15°	9259	8586	8119	8669	9514	2605
25°	8421	8054	7947	8231	8723	3822
35°	5426	5501	5832	5771	5728	3374
45°	2186	2024	1949	2183	2377	1728
55°	493	493	511	500	493	483
65°	32	40	43	40	36	62
75°	0	4	11	4	0	7
85°	0	4	4	7	0	1
90°	0	0	0	0	0	



TEST NUMBER: P247397

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBW0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8464.3	8464.3	8464.3	8464.3	8464.3	8464.3	8464.3	8464.3	8464.3
1°	8453.5	8464.3	8471.5	8468.0	8471.5	8468.0	8460.7	8446.4	8446.4
2°	8468.0	8482.3	8478.6	8471.5	8460.7	8460.7	8482.3	8453.5	8460.7
3°	8525.4	8525.4	8482.3	8442.8	8428.3	8442.8	8478.6	8500.3	8518.3
4°	8597.3	8583.0	8496.7	8406.9	8378.0	8414.0	8493.2	8561.4	8597.3
5°	8690.9	8647.7	8500.3	8363.6	8313.3	8367.2	8507.5	8636.9	8705.2
6°	8798.8	8734.0	8521.9	8316.9	8252.2	8327.7	8529.1	8726.8	8831.0
7°	8906.7	8802.3	8532.7	8280.9	8198.2	8302.5	8547.0	8827.5	8964.1
8°	9007.3	8867.0	8543.5	8248.7	8147.9	8255.8	8561.4	8917.3	9097.2
9°	9090.0	8928.1	8550.6	8223.5	8104.8	8227.0	8579.4	8996.5	9208.6
10°	9158.3	8974.9	8565.1	8209.0	8079.6	8212.7	8597.3	9064.9	9302.1
11°	9212.3	9007.3	8568.6	8201.9	8068.8	8201.9	8611.7	9133.1	9381.3
12°	9244.6	9036.0	8579.4	8205.4	8072.4	8212.7	8633.3	9162.0	9446.0
13°	9266.2	9046.8	8586.5	8216.2	8079.6	8219.8	8647.7	9187.1	9489.1
14°	9266.2	9039.7	8586.5	8227.0	8101.2	8234.1	8658.5	9205.0	9499.9
15°	9259.1	9036.0	8586.5	8244.9	8119.1	8248.7	8669.3	9215.8	9514.2
16°	9237.5	9014.4	8583.0	8255.8	8137.1	8263.0	8672.8	9208.6	9503.6
17°	9194.2	9003.8	8568.6	8266.6	8155.1	8277.4	8672.8	9190.7	9478.3
18°	9136.7	8928.1	8532.7	8255.8	8158.7	8273.8	8651.4	9143.9	9431.6
19°	9086.3	8885.1	8507.5	8248.7	8173.0	8284.6	8636.9	9111.5	9381.3
20°	9007.3	8813.1	8464.3	8227.0	8162.4	8263.0	8601.0	9054.1	9312.9
21°	8910.2	8730.4	8403.2	8191.1	8144.3	8234.1	8550.6	8974.9	9219.4
22°	8813.1	8636.9	8338.5	8155.1	8115.6	8209.0	8496.7	8892.2	9122.3
23°	8698.0	8532.7	8255.8	8094.0	8072.4	8151.6	8421.2	8802.3	9007.3
24°	8568.6	8410.4	8165.9	8025.6	8018.5	8090.4	8334.9	8683.6	8870.7
25°	8421.2	8280.9	8054.5	7939.3	7946.6	8007.7	8230.6	8550.6	8723.3
26°	8244.9	8115.6	7925.0	7835.1	7845.9	7907.1	8111.9	8396.1	8561.4
27°	8047.2	7928.5	7774.0	7709.2	7738.0	7791.9	7968.2	8227.0	8360.1
28°	7799.2	7705.6	7594.2	7565.5	7601.4	7662.6	7810.0	8022.1	8140.8
29°	7511.4	7461.1	7374.8	7389.2	7439.5	7489.8	7612.1	7766.8	7860.3
30°	7202.3	7180.7	7130.3	7187.9	7245.3	7288.6	7371.3	7475.5	7547.4
31°	6885.8	6860.7	6867.8	6961.3	7047.6	7076.3	7123.1	7173.4	7227.4
32°	6529.9	6522.6	6551.4	6688.1	6799.6	6813.9	6817.5	6831.8	6860.7
33°	6166.7	6155.9	6213.5	6382.5	6508.3	6519.1	6490.2	6475.9	6497.5
34°	5789.1	5789.1	5864.6	6040.9	6188.3	6199.0	6141.5	6134.3	6112.7
35°	5425.9	5415.1	5501.4	5666.9	5832.2	5835.9	5771.1	5731.6	5728.0
37.5°	4527.0	4509.1	4537.8	4624.1	4746.3	4811.1	4803.9	4789.5	4778.7
40°	3707.2	3664.1	3606.5	3570.6	3606.5	3739.6	3854.6	3908.6	3919.3
42.5°	2934.2	2873.0	2750.8	2650.0	2664.5	2786.7	2962.9	3085.1	3146.2
45°	2186.2	2125.0	2024.4	1948.9	1948.9	2035.2	2182.6	2308.4	2376.8
47.5°	1560.5	1521.0	1463.5	1431.0	1452.6	1488.6	1571.3	1664.9	1693.6
50°	1075.1	1064.3	1032.0	1032.0	1053.5	1082.3	1096.7	1143.5	1154.3
52.5°	751.6	733.5	737.1	740.8	758.7	762.4	783.8	773.0	791.1
55°	492.6	492.6	492.6	503.4	510.6	510.6	499.8	492.6	492.6
57.5°	312.9	305.6	309.2	316.4	316.4	305.6	287.7	284.0	266.1



TEST NUMBER: P247397

CATALOG NUMBER: LSR8B120D010 EC8B120840 8LBW0WH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	186.9	186.9	190.6	190.6	186.9	176.1	158.2	143.9	136.6
62.5°	97.1	100.6	100.6	118.7	100.6	89.8	82.7	64.7	61.1
65°	32.4	39.5	39.5	39.5	43.2	39.5	39.5	36.0	36.0
67.5°	21.6	25.2	25.2	28.7	28.7	28.7	28.7	36.0	25.2
70°	17.9	17.9	21.6	25.2	25.2	28.7	21.6	17.9	28.7
72.5°	10.8	14.4	10.8	17.9	14.4	14.4	14.4	14.4	14.4
75°	0.0	7.3	3.6	0.0	10.8	7.3	3.6	7.3	0.0
77.5°	3.6	3.6	3.6	3.6	7.3	7.3	7.3	7.3	3.6
80°	3.6	3.6	7.3	3.6	3.6	7.3	0.0	0.0	14.4
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	0.0	3.6	3.6
85°	0.0	3.6	3.6	3.6	3.6	3.6	7.3	7.3	0.0
87.5°	0.0	3.6	0.0	3.6	0.0	0.0	0.0	7.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)