

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: P250199

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9009.5 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

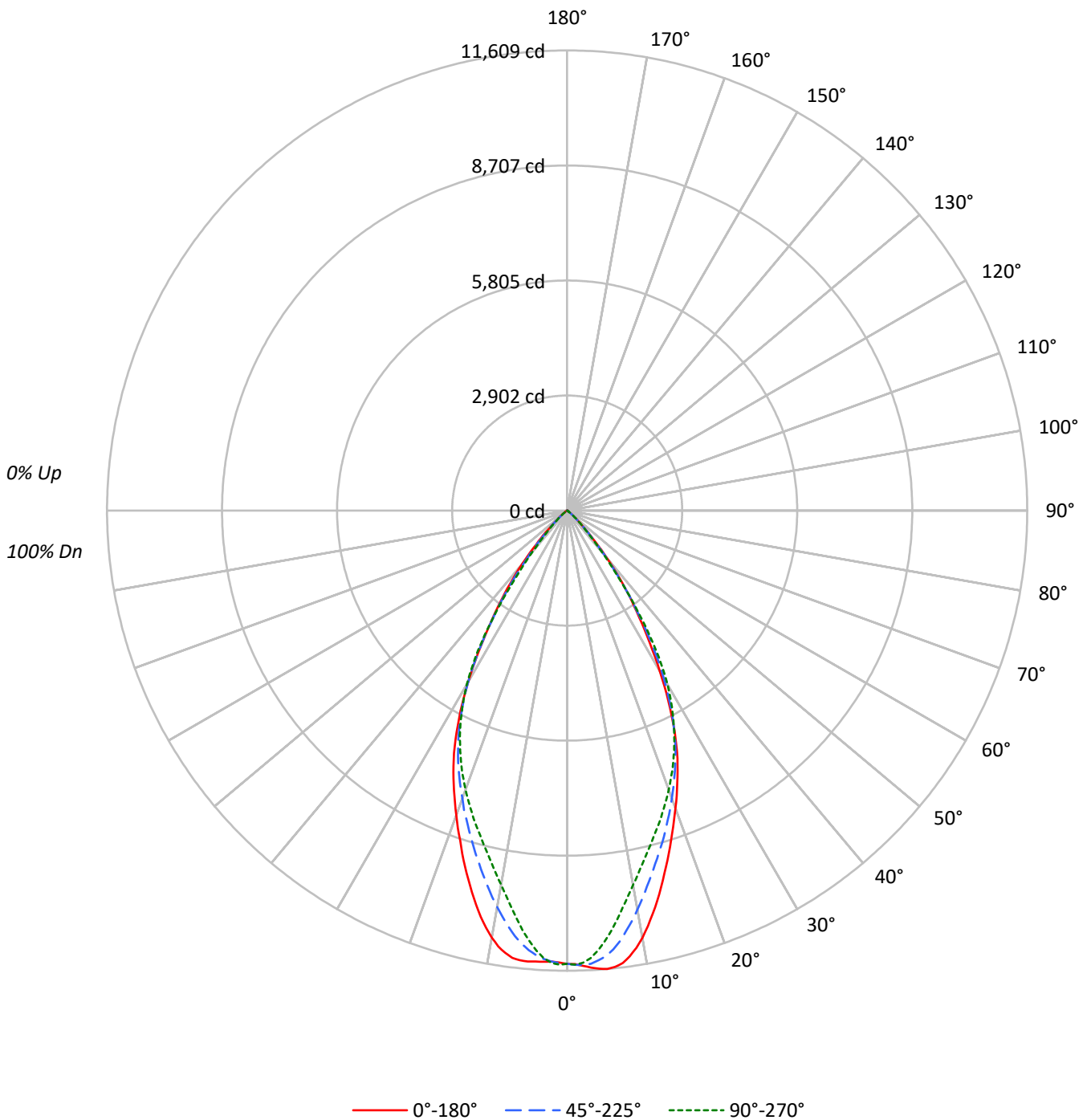
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.0	11.5
10°-20°	2510.5	27.9
20°-30°	2942.4	32.7
30°-40°	1935.9	21.5
40°-50°	505.2	5.6
50°-60°	62.1	0.7
60°-70°	12.9	0.1
70°-80°	2.4	0.0
80°-90°	0.1	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°	6490.8	72.0
0°-40°	8426.8	93.5
0°-60°	8994.1	99.8
0°-90°	9009.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9009.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11434	11434	11434	11434	11434	
5°	11609	11278	10906	11131	11420	###
15°	9477	8940	8484	8940	9638	2642
25°	6511	6447	6399	6508	6750	2935
35°	2961	3027	3130	3161	3211	1854
45°	575	542	506	586	684	516
55°	44	47	53	53	50	59
65°	17	14	14	11	11	12
75°	0	3	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9	11433.9
1°	11442.2	11458.9	11464.4	11481.1	11456.1	11439.4	11417.2	11400.5	11403.3
2°	11492.2	11500.6	11470.0	11458.9	11414.4	11400.5	11383.8	11381.0	11383.8
3°	11545.1	11528.4	11447.7	11372.7	11306.0	11297.6	11328.2	11372.7	11397.7
4°	11586.8	11542.3	11372.7	11233.7	11128.1	11119.8	11242.1	11356.0	11403.3
5°	11609.0	11528.4	11278.2	11044.7	10905.6	10958.4	11130.7	11333.8	11419.9
6°	11578.4	11458.9	11133.5	10822.2	10663.7	10733.2	10986.2	11281.0	11408.8
7°	11500.6	11347.7	10947.3	10580.3	10385.7	10494.2	10816.6	11192.0	11367.1
8°	11356.0	11172.4	10711.0	10299.6	10107.8	10230.1	10608.2	11064.0	11267.1
9°	11167.0	10964.1	10477.5	10043.8	9838.1	9982.7	10391.3	10894.6	11128.1
10°	10941.7	10724.9	10219.0	9777.0	9590.7	9726.9	10157.8	10697.1	10938.9
11°	10677.6	10469.1	9960.4	9526.8	9348.9	9482.3	9924.3	10460.8	10722.1
12°	10391.3	10199.5	9696.4	9284.9	9118.1	9246.0	9674.1	10216.2	10474.7
13°	10105.0	9913.2	9440.6	9051.4	8898.5	9020.8	9429.5	9949.3	10207.8
14°	9796.4	9621.3	9184.9	8829.0	8690.0	8806.8	9179.3	9679.6	9924.3
15°	9476.7	9337.7	8940.2	8615.0	8484.3	8595.5	8940.2	9401.7	9638.0
16°	9176.5	9048.6	8703.9	8403.7	8295.3	8384.2	8698.4	9123.7	9348.9
17°	8870.7	8754.0	8467.6	8195.2	8097.9	8184.1	8451.0	8842.9	9045.8
18°	8565.0	8467.6	8209.1	7975.6	7889.5	7967.3	8206.4	8559.4	8742.8
19°	8281.4	8192.4	7972.9	7775.5	7697.6	7767.1	7992.3	8287.0	8470.4
20°	7989.5	7917.2	7725.4	7564.2	7491.9	7555.8	7731.0	8017.3	8178.5
21°	7708.7	7644.8	7478.0	7341.8	7283.4	7336.3	7497.5	7756.0	7897.8
22°	7416.9	7380.7	7230.6	7116.6	7077.7	7111.1	7258.4	7480.8	7614.3
23°	7130.5	7097.2	6983.2	6888.7	6855.3	6888.7	7019.4	7219.5	7339.1
24°	6841.4	6805.3	6721.9	6660.6	6633.0	6660.6	6771.8	6941.5	7055.5
25°	6510.7	6505.1	6446.6	6413.2	6399.3	6429.9	6507.9	6655.2	6749.7
26°	6193.6	6176.9	6160.3	6154.7	6157.5	6174.1	6238.1	6349.3	6424.5
27°	5804.5	5829.5	5854.5	5887.8	5898.9	5912.9	5943.4	6024.0	6079.7
28°	5431.9	5479.2	5540.3	5607.1	5637.7	5637.7	5640.4	5684.9	5732.2
29°	5062.2	5112.2	5209.6	5309.6	5351.3	5345.7	5323.5	5343.0	5370.8
30°	4675.8	4739.8	4870.4	5001.1	5062.2	5040.0	4998.3	4978.8	4995.5
31°	4297.8	4361.7	4506.3	4648.0	4728.6	4703.6	4631.3	4617.5	4625.8
32°	3936.4	4000.3	4133.7	4283.8	4375.6	4342.3	4267.2	4244.9	4247.7
33°	3586.1	3636.2	3758.5	3897.5	3972.5	3964.2	3903.0	3875.2	3878.0
34°	3255.3	3297.0	3388.7	3494.4	3566.7	3563.9	3519.4	3522.2	3530.5
35°	2960.7	2982.9	3027.3	3085.8	3130.2	3155.2	3160.8	3183.0	3210.8
37.5°	2237.9	2246.1	2193.3	2134.9	2123.8	2196.2	2321.3	2429.7	2471.4
40°	1551.2	1531.7	1465.0	1362.1	1331.5	1412.2	1570.6	1723.5	1779.1
42.5°	964.6	956.3	914.6	836.8	808.9	856.2	975.7	1092.5	1148.1
45°	575.4	564.3	542.0	511.5	505.9	525.4	586.5	653.3	683.9
47.5°	330.8	328.0	314.1	303.0	300.2	314.1	341.9	380.8	389.2
50°	180.7	177.9	175.1	175.1	175.1	183.4	197.4	208.5	214.1
52.5°	89.0	91.8	89.0	91.8	94.5	100.1	97.3	108.4	108.4
55°	44.5	41.7	47.3	52.8	52.8	52.8	52.8	52.8	50.1
57.5°	33.3	36.1	30.6	33.3	30.6	30.6	27.8	30.6	33.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	22.2	19.5	22.2	25.0	27.8	25.0	19.5	22.2	25.0
62.5°	11.1	11.1	11.1	16.7	25.0	19.5	16.7	13.9	13.9
65°	16.7	11.1	13.9	16.7	13.9	13.9	11.1	13.9	11.1
67.5°	8.4	13.9	8.4	5.6	8.4	11.1	8.4	5.6	5.6
70°	0.0	2.8	2.8	8.4	8.4	8.4	8.4	5.6	5.6
72.5°	2.8	2.8	2.8	5.6	2.8	5.6	2.8	2.8	5.6
75°	0.0	0.0	2.8	2.8	0.0	2.8	0.0	0.0	0.0
77.5°	2.8	0.0	2.8	2.8	0.0	0.0	0.0	2.8	0.0
80°	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)