

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: P247428

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247428
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: LSR8B100D010 EC8B100930 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9336.8 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

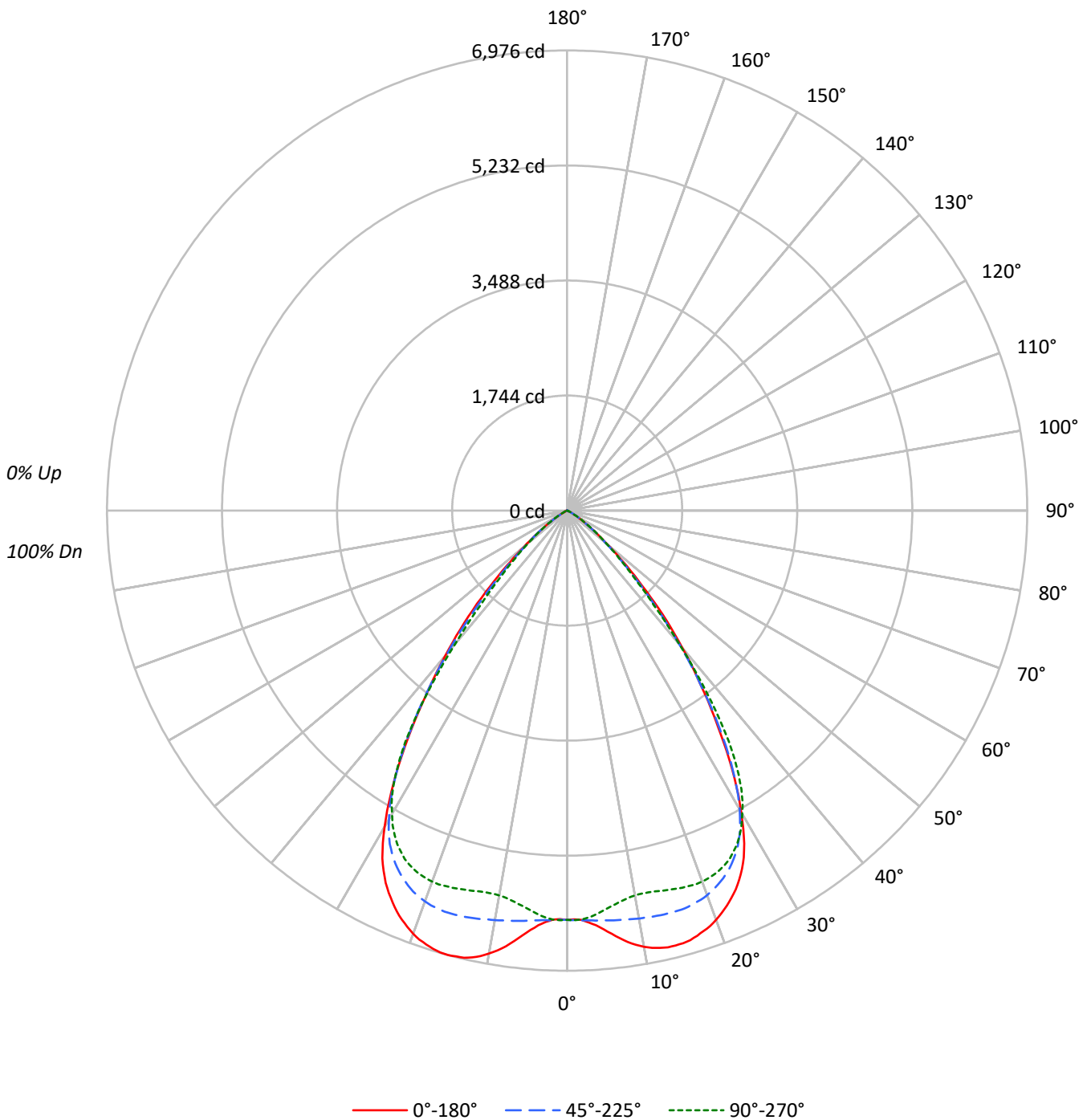
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	67	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°	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°	598.2	6.4
10°-20°	1799.8	19.3
20°-30°	2739.4	29.3
30°-40°	2549.3	27.3
40°-50°	1240.8	13.3
50°-60°	353.6	3.8
60°-70°	46.2	0.5
70°-80°	7.3	0.1
80°-90°	2.2	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°	5137.4	55.0
0°-40°	7686.8	82.3
0°-60°	9281.1	99.4
0°-90°	9336.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9336.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6206	6206	6206	6206	6206	
5°	6372	6232	6095	6238	6383	621
15°	6789	6296	5953	6356	6976	1910
25°	6175	5906	5827	6035	6396	2803
35°	3978	4034	4276	4231	4200	2474
45°	1603	1484	1429	1600	1743	1267
55°	361	361	374	366	361	354
65°	24	29	32	29	26	45
75°	0	3	8	3	0	5
85°	0	3	3	5	0	1
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°	6206.2	6206.2	6206.2	6206.2	6206.2	6206.2	6206.2	6206.2	6206.2
1°	6198.2	6206.2	6211.5	6208.9	6211.5	6208.9	6203.6	6193.1	6193.1
2°	6208.9	6219.4	6216.7	6211.5	6203.6	6203.6	6219.4	6198.2	6203.6
3°	6251.0	6251.0	6219.4	6190.4	6179.8	6190.4	6216.7	6232.5	6245.8
4°	6303.7	6293.2	6230.0	6164.0	6142.9	6169.3	6227.4	6277.4	6303.7
5°	6372.3	6340.6	6232.5	6132.4	6095.4	6135.0	6237.9	6332.8	6382.9
6°	6451.5	6403.9	6248.3	6098.1	6050.7	6106.0	6253.7	6398.7	6475.1
7°	6530.5	6454.0	6256.3	6071.7	6011.0	6087.6	6266.8	6472.4	6572.6
8°	6604.4	6501.5	6264.3	6048.0	5974.1	6053.3	6277.4	6538.3	6670.2
9°	6665.0	6546.3	6269.4	6029.6	5942.5	6032.2	6290.6	6596.4	6751.9
10°	6715.0	6580.6	6280.1	6019.0	5924.1	6021.7	6303.7	6646.5	6820.5
11°	6754.6	6604.4	6282.6	6013.8	5916.2	6013.8	6314.3	6696.5	6878.6
12°	6778.2	6625.3	6290.6	6016.4	5918.8	6021.7	6330.1	6717.7	6926.0
13°	6794.2	6633.3	6295.8	6024.3	5924.1	6026.9	6340.6	6736.2	6957.6
14°	6794.2	6628.1	6295.8	6032.2	5940.0	6037.5	6348.6	6749.3	6965.4
15°	6788.9	6625.3	6295.8	6045.3	5953.1	6048.0	6356.5	6757.3	6976.0
16°	6773.1	6609.5	6293.2	6053.3	5966.3	6058.6	6359.1	6751.9	6968.2
17°	6741.4	6601.7	6282.6	6061.2	5979.5	6069.1	6359.1	6738.8	6949.6
18°	6699.2	6546.3	6256.3	6053.3	5982.1	6066.5	6343.3	6704.5	6915.4
19°	6662.3	6514.7	6237.9	6048.0	5992.6	6074.5	6332.8	6680.7	6878.6
20°	6604.4	6462.0	6206.2	6032.2	5984.8	6058.6	6306.4	6638.7	6828.5
21°	6533.2	6401.2	6161.4	6005.9	5971.6	6037.5	6269.4	6580.6	6759.9
22°	6462.0	6332.8	6113.9	5979.5	5950.5	6019.0	6230.0	6520.0	6688.7
23°	6377.5	6256.3	6053.3	5934.7	5918.8	5976.8	6174.6	6454.0	6604.4
24°	6282.6	6166.6	5987.4	5884.6	5879.3	5932.1	6111.4	6367.1	6504.2
25°	6174.6	6071.7	5905.7	5821.2	5826.6	5871.3	6034.8	6269.4	6396.1
26°	6045.3	5950.5	5810.7	5744.9	5752.7	5797.6	5947.8	6156.2	6277.4
27°	5900.4	5813.4	5700.1	5652.5	5673.7	5713.2	5842.4	6032.2	6129.7
28°	5718.4	5650.0	5568.2	5547.2	5573.5	5618.3	5726.4	5881.9	5969.0
29°	5507.6	5470.6	5407.4	5417.9	5454.8	5491.7	5581.3	5694.7	5763.3
30°	5280.8	5265.0	5228.1	5270.3	5312.4	5344.1	5404.8	5481.1	5533.9
31°	5048.9	5030.4	5035.5	5104.1	5167.5	5188.4	5222.7	5259.7	5299.3
32°	4787.8	4782.5	4803.6	4903.8	4985.5	4996.1	4998.7	5009.2	5030.4
33°	4521.6	4513.6	4555.9	4679.7	4772.0	4779.9	4758.8	4748.2	4764.0
34°	4244.7	4244.7	4300.0	4429.3	4537.4	4545.2	4503.1	4497.8	4481.9
35°	3978.4	3970.5	4033.7	4155.1	4276.3	4279.0	4231.4	4202.5	4199.9
37.5°	3319.3	3306.2	3327.1	3390.5	3480.0	3527.6	3522.3	3511.8	3503.8
40°	2718.2	2686.6	2644.3	2618.0	2644.3	2742.0	2826.3	2865.8	2873.7
42.5°	2151.4	2106.6	2016.9	1943.0	1953.7	2043.2	2172.4	2262.1	2306.9
45°	1602.9	1558.1	1484.3	1428.9	1428.9	1492.3	1600.3	1692.6	1742.7
47.5°	1144.2	1115.3	1073.0	1049.3	1065.1	1091.5	1152.2	1220.8	1241.7
50°	788.3	780.3	756.7	756.7	772.5	793.6	804.1	838.4	846.4
52.5°	551.1	537.9	540.4	543.1	556.2	558.9	574.7	566.8	580.0
55°	361.2	361.2	361.2	369.0	374.4	374.4	366.5	361.2	361.2
57.5°	229.4	224.1	226.7	232.0	232.0	224.1	211.0	208.3	195.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	137.1	137.1	139.8	139.8	137.1	129.1	116.0	105.5	100.2
62.5°	71.2	73.8	73.8	87.0	73.8	65.9	60.6	47.4	44.8
65°	23.8	28.9	28.9	28.9	31.7	28.9	28.9	26.3	26.3
67.5°	15.8	18.5	18.5	21.1	21.1	21.1	21.1	26.3	18.5
70°	13.1	13.1	15.8	18.5	18.5	21.1	15.8	13.1	21.1
72.5°	8.0	10.5	8.0	13.1	10.5	10.5	10.5	10.5	10.5
75°	0.0	5.3	2.6	0.0	8.0	5.3	2.6	5.3	0.0
77.5°	2.6	2.6	2.6	2.6	5.3	5.3	5.3	5.3	2.6
80°	2.6	2.6	5.3	2.6	2.6	5.3	0.0	0.0	10.5
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	2.6	2.6
85°	0.0	2.6	2.6	2.6	2.6	2.6	5.3	5.3	0.0
87.5°	0.0	2.6	0.0	2.6	0.0	0.0	0.0	5.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)