

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: P247392

Luminaire Tested: **LSR8B100D010 EC8B100835 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247392
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 EC8B100835 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11307.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

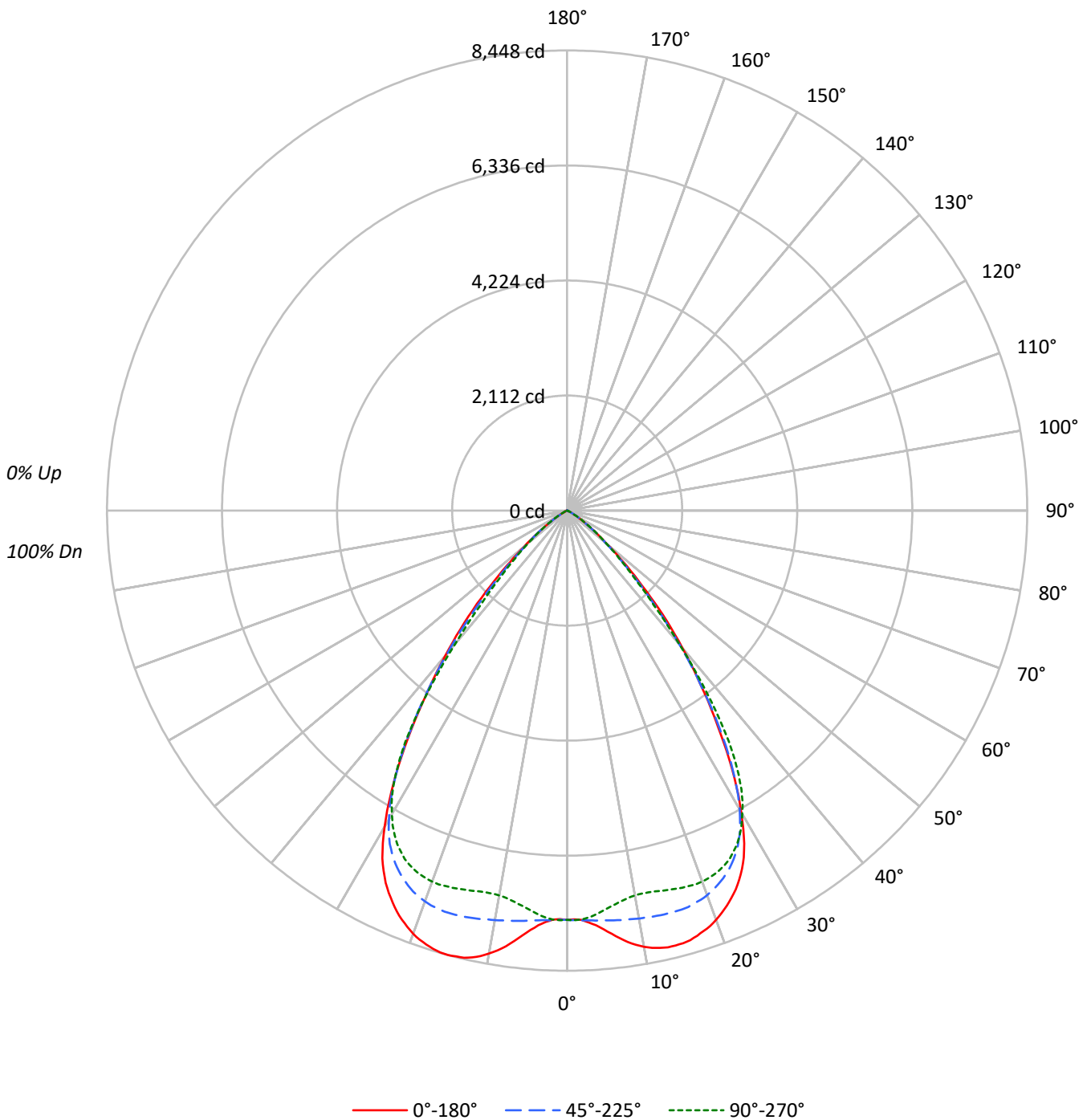
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	231760	231760	231760
5°	238873	228494	239266
10°	254629	224639	258628
15°	262464	230150	269695
20°	262454	237836	271360
25°	254415	240078	263541
30°	227712	229072	238622
35°	181366	194944	191462
40°	132504	128909	140088
45°	84654	75466	92033
50°	45795	44874	49167
55°	23515	24375	23515
60°	10238	10238	7481
65°	2101	2802	2328
70°	1434	2011	2299
75°	0	1144	0
80°	568	568	2255
85°	0	1132	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.4	6.4
10°-20°	2179.6	19.3
20°-30°	3317.5	29.3
30°-40°	3087.3	27.3
40°-50°	1502.6	13.3
50°-60°	428.2	3.8
60°-70°	56.0	0.5
70°-80°	8.8	0.1
80°-90°	2.7	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°	6221.5	55.0
0°-40°	9308.8	82.3
0°-60°	11239.5	99.4
0°-90°	11307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11307.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7516	7516	7516	7516	7516	
5°	7717	7548	7382	7554	7730	752
15°	8222	7624	7209	7698	8448	2313
25°	7478	7152	7056	7308	7746	3394
35°	4818	4885	5179	5124	5086	2996
45°	1941	1798	1730	1938	2110	1534
55°	437	437	453	444	437	429
65°	29	35	38	35	32	55
75°	0	3	10	3	0	6
85°	0	3	3	6	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°	7515.8	7515.8	7515.8	7515.8	7515.8	7515.8	7515.8	7515.8	7515.8
1°	7506.2	7515.8	7522.2	7519.0	7522.2	7519.0	7512.6	7499.9	7499.9
2°	7519.0	7531.8	7528.5	7522.2	7512.6	7512.6	7531.8	7506.2	7512.6
3°	7570.0	7570.0	7531.8	7496.7	7483.8	7496.7	7528.5	7547.7	7563.7
4°	7633.9	7621.2	7544.5	7464.8	7439.1	7471.1	7541.4	7602.0	7633.9
5°	7717.0	7678.6	7547.7	7426.4	7381.7	7429.6	7554.1	7669.0	7729.7
6°	7812.8	7755.2	7566.9	7384.9	7327.4	7394.5	7573.3	7748.9	7841.4
7°	7908.6	7815.9	7576.5	7352.9	7279.5	7372.1	7589.2	7838.3	7959.6
8°	7997.9	7873.4	7586.1	7324.3	7234.8	7330.6	7602.0	7918.0	8077.7
9°	8071.4	7927.6	7592.4	7301.9	7196.6	7305.1	7618.0	7988.3	8176.7
10°	8132.0	7969.2	7605.3	7289.1	7174.2	7292.4	7633.9	8049.1	8259.7
11°	8179.9	7997.9	7608.4	7282.8	7164.6	7282.8	7646.7	8109.6	8330.0
12°	8208.6	8023.4	7618.0	7285.9	7167.8	7292.4	7665.8	8135.3	8387.5
13°	8227.8	8033.0	7624.3	7295.5	7174.2	7298.7	7678.6	8157.6	8425.7
14°	8227.8	8026.7	7624.3	7305.1	7193.4	7311.4	7688.2	8173.5	8435.3
15°	8221.5	8023.4	7624.3	7321.0	7209.3	7324.3	7697.8	8183.1	8448.0
16°	8202.3	8004.2	7621.2	7330.6	7225.2	7337.0	7700.9	8176.7	8438.6
17°	8163.9	7994.8	7608.4	7340.2	7241.2	7349.8	7700.9	8160.8	8416.1
18°	8112.8	7927.6	7576.5	7330.6	7244.4	7346.6	7681.9	8119.2	8374.7
19°	8068.1	7889.4	7554.1	7324.3	7257.1	7356.2	7669.0	8090.5	8330.0
20°	7997.9	7825.5	7515.8	7305.1	7247.7	7337.0	7637.2	8039.5	8269.3
21°	7911.7	7752.1	7461.5	7273.2	7231.6	7311.4	7592.4	7969.2	8186.3
22°	7825.5	7669.0	7404.1	7241.2	7206.1	7289.1	7544.5	7895.7	8100.0
23°	7723.3	7576.5	7330.6	7187.0	7167.8	7238.1	7477.5	7815.9	7997.9
24°	7608.4	7467.9	7250.8	7126.2	7119.9	7183.8	7400.9	7710.5	7876.6
25°	7477.5	7352.9	7151.9	7049.6	7056.1	7110.3	7308.3	7592.4	7745.7
26°	7321.0	7206.1	7036.9	6957.1	6966.7	7021.0	7202.9	7455.2	7602.0
27°	7145.4	7040.0	6902.8	6845.3	6870.9	6918.7	7075.3	7305.1	7423.2
28°	6925.2	6842.1	6743.2	6717.7	6749.6	6803.9	6934.8	7123.1	7228.5
29°	6669.7	6625.0	6548.4	6561.1	6605.8	6650.5	6759.1	6896.4	6979.4
30°	6395.2	6376.0	6331.3	6382.4	6433.4	6471.8	6545.2	6637.8	6701.6
31°	6114.2	6091.9	6098.2	6181.2	6257.8	6283.3	6324.9	6369.5	6417.5
32°	5798.1	5791.7	5817.2	5938.6	6037.6	6050.3	6053.5	6066.2	6091.9
33°	5475.6	5466.0	5517.2	5667.2	5779.0	5788.5	5762.9	5750.2	5769.4
34°	5140.4	5140.4	5207.4	5363.9	5494.8	5504.3	5453.3	5446.9	5427.7
35°	4817.9	4808.3	4884.9	5031.8	5178.6	5181.9	5124.4	5089.3	5086.1
37.5°	4019.7	4003.8	4029.3	4105.9	4214.4	4272.0	4265.5	4252.8	4243.2
40°	3291.7	3253.5	3202.4	3170.4	3202.4	3320.5	3422.6	3470.6	3480.1
42.5°	2605.4	2551.1	2442.5	2353.0	2365.9	2474.5	2630.8	2739.4	2793.7
45°	1941.2	1886.9	1797.5	1730.5	1730.5	1807.1	1938.0	2049.7	2110.4
47.5°	1385.7	1350.6	1299.5	1270.7	1289.9	1321.8	1395.3	1478.3	1503.8
50°	954.6	945.0	916.4	916.4	935.4	961.1	973.8	1015.3	1024.9
52.5°	667.3	651.3	654.5	657.7	673.6	676.9	696.0	686.4	702.4
55°	437.4	437.4	437.4	447.0	453.4	453.4	443.8	437.4	437.4
57.5°	277.8	271.4	274.5	281.0	281.0	271.4	255.5	252.2	236.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	166.0	166.0	169.3	169.3	166.0	156.4	140.5	127.7	121.3
62.5°	86.2	89.4	89.4	105.4	89.4	79.8	73.5	57.4	54.3
65°	28.8	35.1	35.1	35.1	38.4	35.1	35.1	31.9	31.9
67.5°	19.2	22.3	22.3	25.5	25.5	25.5	25.5	31.9	22.3
70°	15.9	15.9	19.2	22.3	22.3	25.5	19.2	15.9	25.5
72.5°	9.6	12.7	9.6	15.9	12.7	12.7	12.7	12.7	12.7
75°	0.0	6.4	3.2	0.0	9.6	6.4	3.2	6.4	0.0
77.5°	3.2	3.2	3.2	3.2	6.4	6.4	6.4	6.4	3.2
80°	3.2	3.2	6.4	3.2	3.2	6.4	0.0	0.0	12.7
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	0.0	3.2	3.2
85°	0.0	3.2	3.2	3.2	3.2	3.2	6.4	6.4	0.0
87.5°	0.0	3.2	0.0	3.2	0.0	0.0	0.0	6.4	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)