

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: P250192

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250192
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 EC8B100927 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8545.6 lumens
Efficiency: N/A
Efficacy: 80.4 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

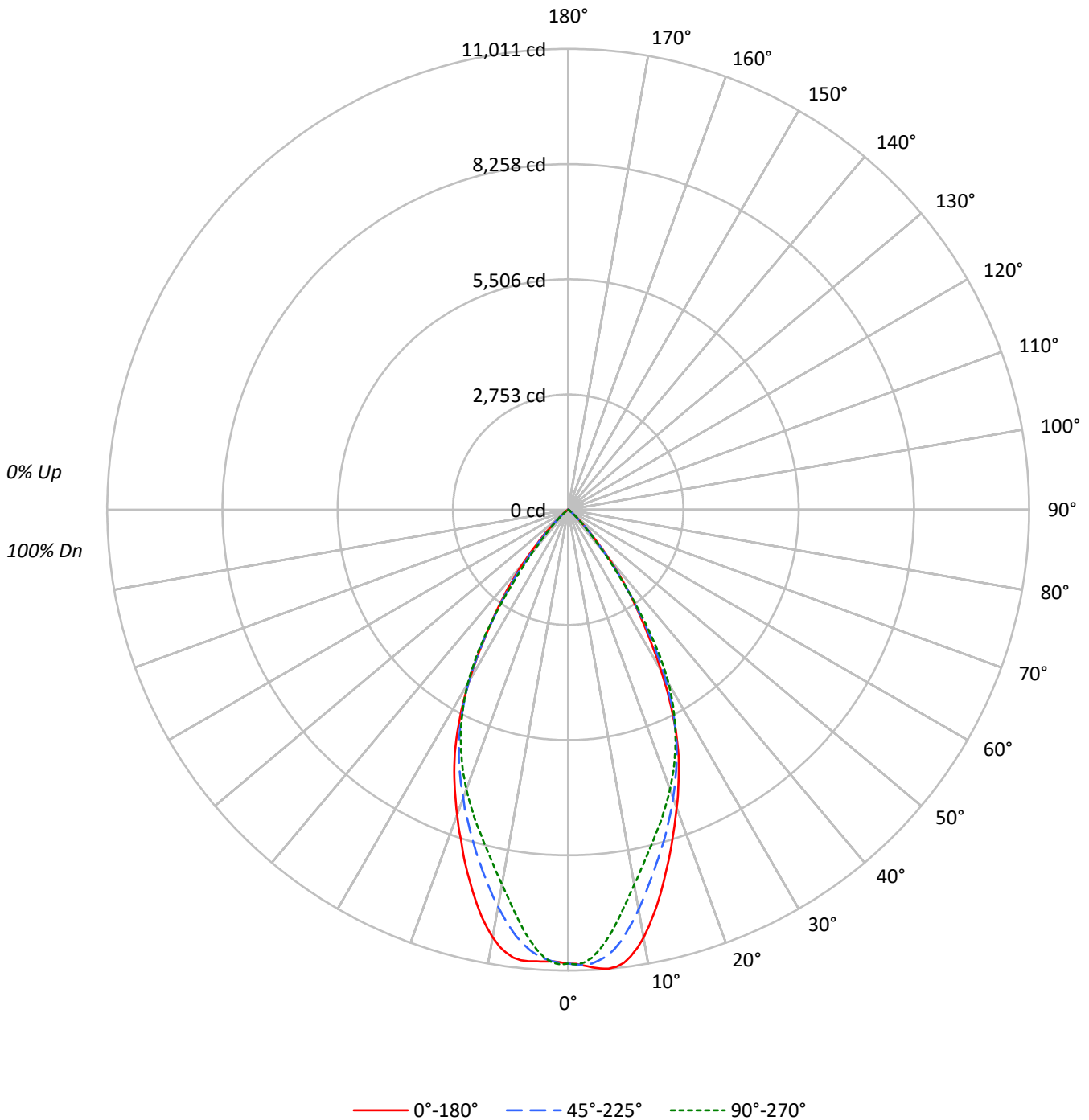
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	984.5	11.5
10°-20°	2381.2	27.9
20°-30°	2790.9	32.7
30°-40°	1836.2	21.5
40°-50°	479.2	5.6
50°-60°	59.0	0.7
60°-70°	12.3	0.1
70°-80°	2.3	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°	6156.6	72.0
0°-40°	7992.8	93.5
0°-60°	8530.9	99.8
0°-90°	8545.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8545.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10845	10845	10845	10845	10845	
5°	11011	10697	10344	10558	10832	###
15°	8989	8480	8048	8480	9142	2506
25°	6175	6115	6070	6173	6402	2784
35°	2808	2872	2969	2998	3046	1758
45°	546	514	480	556	649	489
55°	42	45	50	50	48	56
65°	16	13	13	10	10	11
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°	10845.0	10845.0	10845.0	10845.0	10845.0	10845.0	10845.0	10845.0	10845.0
1°	10852.9	10868.7	10874.0	10889.9	10866.2	10850.3	10829.2	10813.3	10816.0
2°	10900.4	10908.3	10879.3	10868.7	10826.6	10813.3	10797.5	10794.8	10797.5
3°	10950.5	10934.7	10858.2	10786.9	10723.7	10715.7	10744.8	10786.9	10810.7
4°	10990.0	10947.8	10786.9	10655.1	10555.0	10547.1	10663.1	10771.1	10816.0
5°	11011.2	10934.7	10697.3	10475.9	10344.0	10394.1	10557.6	10750.1	10831.7
6°	10982.1	10868.7	10560.3	10264.9	10114.6	10180.6	10420.4	10700.0	10821.3
7°	10908.3	10763.2	10383.5	10035.4	9850.9	9953.8	10259.7	10615.6	10781.7
8°	10771.1	10597.2	10159.4	9769.2	9587.2	9703.2	10061.9	10494.3	10686.8
9°	10591.9	10399.4	9937.9	9526.6	9331.5	9468.6	9856.2	10333.5	10555.0
10°	10378.2	10172.6	9692.8	9273.5	9096.9	9226.0	9634.7	10146.3	10375.6
11°	10127.8	9930.0	9447.5	9036.2	8867.5	8994.0	9413.2	9922.2	10170.0
12°	9856.2	9674.3	9197.0	8806.7	8648.6	8769.8	9175.9	9690.1	9935.3
13°	9584.6	9402.6	8954.4	8585.3	8440.3	8556.3	8943.9	9436.9	9682.2
14°	9291.9	9125.8	8711.9	8374.3	8242.5	8353.2	8706.6	9181.1	9413.2
15°	8988.8	8856.9	8479.8	8171.3	8047.5	8152.9	8479.8	8917.5	9141.6
16°	8703.9	8582.6	8255.7	7970.8	7868.1	7952.4	8250.4	8653.8	8867.5
17°	8413.9	8303.2	8031.5	7773.2	7680.9	7762.6	8015.7	8387.6	8580.0
18°	8123.8	8031.5	7786.4	7564.8	7483.2	7557.0	7783.8	8118.6	8292.6
19°	7854.9	7770.5	7562.2	7375.0	7301.2	7367.1	7580.7	7860.2	8034.2
20°	7578.0	7509.5	7327.6	7174.6	7106.1	7166.7	7332.9	7604.4	7757.3
21°	7311.7	7251.1	7092.9	6963.6	6908.3	6958.5	7111.4	7356.6	7491.0
22°	7034.8	7000.6	6858.2	6750.1	6713.2	6744.8	6884.6	7095.5	7222.2
23°	6763.3	6731.7	6623.6	6533.9	6502.3	6533.9	6657.9	6847.6	6961.0
24°	6489.1	6454.8	6375.7	6317.7	6291.3	6317.7	6423.1	6584.0	6692.1
25°	6175.3	6170.1	6114.7	6083.0	6069.8	6098.8	6172.7	6312.4	6402.0
26°	5874.6	5858.9	5843.0	5837.7	5840.4	5856.2	5916.8	6022.3	6093.6
27°	5505.5	5529.3	5553.0	5584.6	5595.2	5608.3	5637.4	5713.9	5766.6
28°	5152.2	5197.0	5255.1	5318.3	5347.3	5347.3	5349.9	5392.1	5437.0
29°	4801.5	4849.0	4941.3	5036.2	5075.8	5070.5	5049.3	5067.8	5094.2
30°	4435.1	4495.7	4619.6	4743.6	4801.5	4780.5	4740.9	4722.4	4738.3
31°	4076.4	4137.1	4274.2	4408.7	4485.2	4461.4	4392.8	4379.6	4387.5
32°	3733.6	3794.3	3920.8	4063.3	4150.2	4118.6	4047.4	4026.4	4029.0
33°	3401.4	3448.9	3564.9	3696.8	3768.0	3760.0	3702.0	3675.7	3678.3
34°	3087.7	3127.2	3214.1	3314.5	3383.0	3380.3	3338.1	3340.8	3348.7
35°	2808.2	2829.3	2871.5	2926.8	2969.0	2992.7	2998.0	3019.0	3045.5
37.5°	2122.6	2130.5	2080.5	2025.0	2014.5	2083.0	2201.7	2304.6	2344.0
40°	1471.3	1452.8	1389.6	1292.1	1263.0	1339.5	1489.7	1634.9	1687.5
42.5°	915.0	907.1	867.5	793.7	767.2	812.1	925.5	1036.2	1089.0
45°	545.8	535.3	514.1	485.2	479.9	498.4	556.3	619.6	648.7
47.5°	313.8	311.2	297.9	287.4	284.7	297.9	324.3	361.2	369.1
50°	171.3	168.8	166.2	166.2	166.2	174.0	187.2	197.8	203.1
52.5°	84.4	87.1	84.4	87.1	89.7	95.0	92.2	102.8	102.8
55°	42.2	39.6	44.9	50.2	50.2	50.2	50.2	50.2	47.5
57.5°	31.6	34.3	29.0	31.6	29.0	29.0	26.4	29.0	31.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	21.2	18.4	21.2	23.7	26.4	23.7	18.4	21.2	23.7
62.5°	10.5	10.5	10.5	15.9	23.7	18.4	15.9	13.2	13.2
65°	15.9	10.5	13.2	15.9	13.2	13.2	10.5	13.2	10.5
67.5°	8.0	13.2	8.0	5.3	8.0	10.5	8.0	5.3	5.3
70°	0.0	2.7	2.7	8.0	8.0	8.0	8.0	5.3	5.3
72.5°	2.7	2.7	2.7	5.3	2.7	5.3	2.7	2.7	5.3
75°	0.0	0.0	2.7	2.7	0.0	2.7	0.0	0.0	0.0
77.5°	2.7	0.0	2.7	2.7	0.0	0.0	0.0	2.7	0.0
80°	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	2.7
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)