

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 EC8B1009727 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 EC8B1009727 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: 7596.1 lumens  
Efficiency: N/A  
Efficacy: 71.5 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

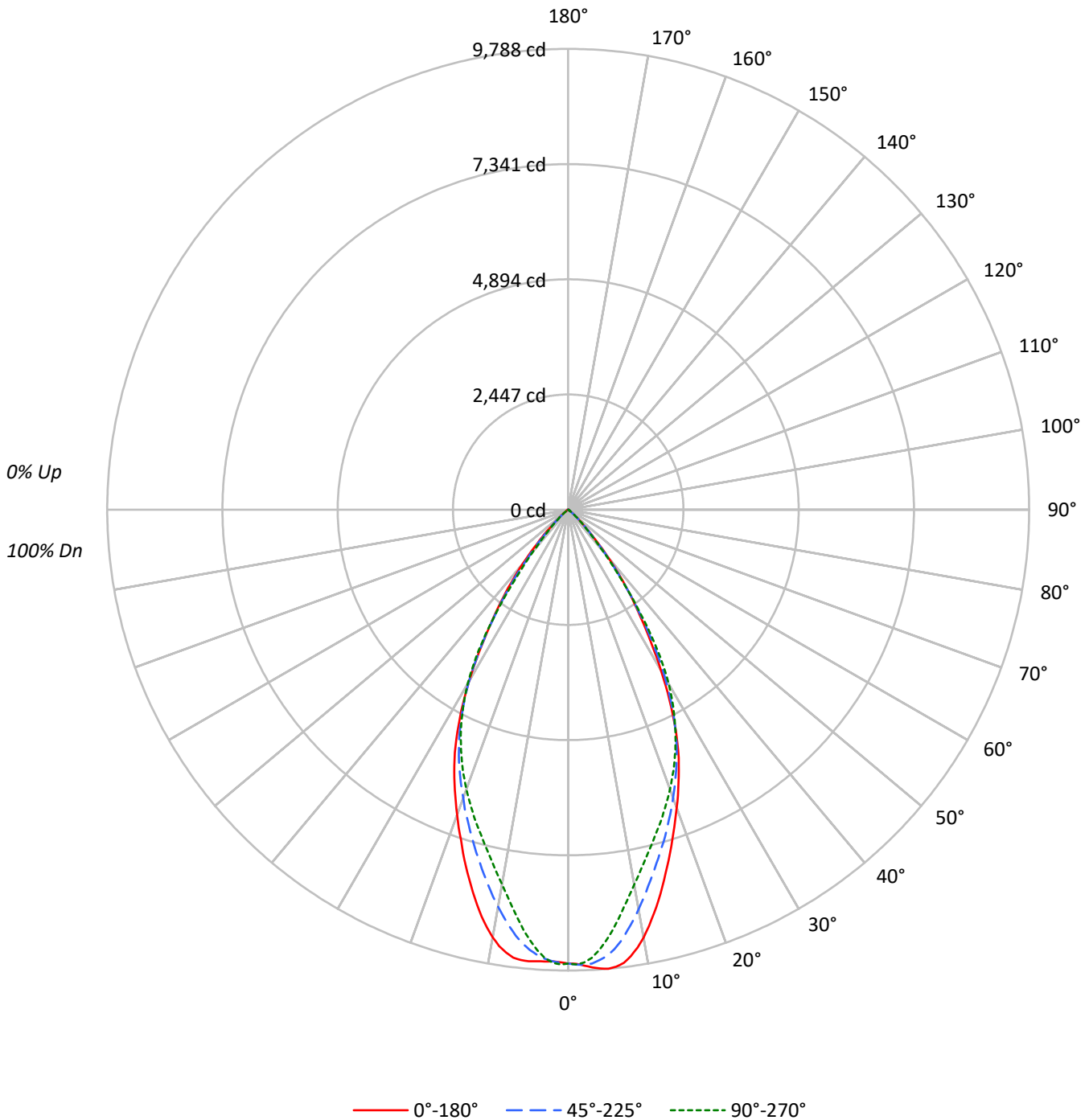
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94	94	94	94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76	76	76	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71	71	71	71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66	66	66	66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55	55	55	55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52	52	52	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°	875.1	11.5
10°-20°	2116.6	27.9
20°-30°	2480.8	32.7
30°-40°	1632.2	21.5
40°-50°	425.9	5.6
50°-60°	52.4	0.7
60°-70°	10.9	0.1
70°-80°	2.0	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°	5472.5	72.0
0°-40°	7104.7	93.5
0°-60°	7583.1	99.8
0°-90°	7596.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7596.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9640	9640	9640	9640	9640	
5°	9788	9509	9195	9384	9628	917
15°	7990	7538	7153	7538	8126	2227
25°	5489	5435	5395	5487	5691	2475
35°	2496	2552	2639	2665	2707	1563
45°	485	457	427	494	577	435
55°	38	40	45	45	42	50
65°	14	12	12	9	9	10
75°	0	2	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°	9640.0	9640.0	9640.0	9640.0	9640.0	9640.0	9640.0	9640.0	9640.0
1°	9647.0	9661.1	9665.8	9679.9	9658.8	9644.7	9626.0	9611.8	9614.2
2°	9689.2	9696.3	9670.5	9661.1	9623.6	9611.8	9597.8	9595.4	9597.8
3°	9733.8	9719.7	9651.7	9588.4	9532.2	9525.1	9550.9	9588.4	9609.5
4°	9768.9	9731.4	9588.4	9471.2	9382.2	9375.2	9478.3	9574.3	9614.2
5°	9787.7	9719.7	9508.7	9311.9	9194.7	9239.2	9384.5	9555.6	9628.2
6°	9761.9	9661.1	9386.9	9124.4	8990.8	9049.4	9262.6	9511.1	9618.9
7°	9696.3	9567.3	9229.8	8920.4	8756.4	8847.8	9119.7	9436.1	9583.7
8°	9574.3	9419.7	9030.6	8683.7	8522.0	8625.1	8943.9	9328.3	9499.4
9°	9415.0	9243.9	8833.7	8468.1	8294.7	8416.5	8761.1	9185.3	9382.2
10°	9225.1	9042.3	8615.8	8243.1	8086.1	8200.9	8564.2	9018.9	9222.8
11°	9002.5	8826.7	8397.8	8032.2	7882.2	7994.7	8367.3	8819.7	9040.0
12°	8761.1	8599.4	8175.1	7828.2	7687.6	7795.4	8156.4	8613.4	8831.4
13°	8519.6	8357.9	7959.5	7631.4	7502.5	7605.6	7950.1	8388.4	8606.4
14°	8259.5	8111.8	7743.9	7443.8	7326.7	7425.1	7739.2	8161.0	8367.3
15°	7990.0	7872.8	7537.6	7263.4	7153.3	7247.0	7537.6	7926.7	8125.9
16°	7736.8	7629.0	7338.4	7085.2	6993.9	7068.8	7333.7	7692.3	7882.2
17°	7479.0	7380.6	7139.1	6909.5	6827.5	6900.1	7125.1	7455.6	7626.7
18°	7221.2	7139.1	6921.2	6724.3	6651.7	6717.3	6918.9	7216.5	7371.2
19°	6982.1	6907.1	6722.0	6555.6	6490.0	6548.5	6738.4	6986.8	7141.5
20°	6736.0	6675.1	6513.4	6377.4	6316.5	6370.4	6518.1	6759.5	6895.4
21°	6499.3	6445.4	6304.8	6189.9	6140.7	6185.3	6321.2	6539.2	6658.7
22°	6253.2	6222.8	6096.2	6000.1	5967.3	5995.4	6119.6	6307.1	6419.7
23°	6011.8	5983.7	5887.6	5807.9	5779.8	5807.9	5918.1	6086.8	6187.6
24°	5768.1	5737.6	5667.3	5615.7	5592.3	5615.7	5709.4	5852.4	5948.5
25°	5489.2	5484.5	5435.3	5407.1	5395.4	5421.2	5486.8	5611.0	5690.7
26°	5221.9	5207.9	5193.8	5189.1	5191.5	5205.5	5259.4	5353.2	5416.5
27°	4893.8	4914.9	4936.0	4964.1	4973.5	4985.2	5011.0	5079.0	5125.9
28°	4579.7	4619.6	4671.2	4727.4	4753.2	4753.2	4755.5	4793.0	4832.9
29°	4268.0	4310.2	4392.3	4476.6	4511.8	4507.1	4488.3	4504.7	4528.2
30°	3942.3	3996.2	4106.3	4216.5	4268.0	4249.3	4214.1	4197.7	4211.8
31°	3623.5	3677.4	3799.3	3918.8	3986.8	3965.7	3904.7	3893.0	3900.0
32°	3318.8	3372.7	3485.2	3611.8	3689.1	3661.0	3597.7	3579.0	3581.3
33°	3023.5	3065.7	3168.8	3286.0	3349.3	3342.2	3290.7	3267.3	3269.6
34°	2744.6	2779.7	2857.0	2946.2	3007.1	3004.7	2967.2	2969.6	2976.6
35°	2496.2	2514.9	2552.4	2601.6	2639.1	2660.2	2664.9	2683.6	2707.1
37.5°	1886.8	1893.8	1849.3	1800.0	1790.7	1851.6	1957.1	2048.5	2083.6
40°	1307.8	1291.4	1235.2	1148.5	1122.7	1190.7	1324.2	1453.2	1500.0
42.5°	813.3	806.3	771.1	705.5	682.0	721.9	822.7	921.1	968.0
45°	485.2	475.8	457.0	431.3	426.6	443.0	494.5	550.8	576.6
47.5°	278.9	276.6	264.8	255.5	253.1	264.8	288.3	321.1	328.1
50°	152.3	150.0	147.7	147.7	147.7	154.7	166.4	175.8	180.5
52.5°	75.0	77.4	75.0	77.4	79.7	84.4	82.0	91.4	91.4
55°	37.5	35.2	39.9	44.6	44.6	44.6	44.6	44.6	42.2
57.5°	28.1	30.5	25.8	28.1	25.8	25.8	23.5	25.8	28.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	18.8	16.4	18.8	21.1	23.5	21.1	16.4	18.8	21.1
62.5°	9.3	9.3	9.3	14.1	21.1	16.4	14.1	11.7	11.7
65°	14.1	9.3	11.7	14.1	11.7	11.7	9.3	11.7	9.3
67.5°	7.1	11.7	7.1	4.7	7.1	9.3	7.1	4.7	4.7
70°	0.0	2.4	2.4	7.1	7.1	7.1	7.1	4.7	4.7
72.5°	2.4	2.4	2.4	4.7	2.4	4.7	2.4	2.4	4.7
75°	0.0	0.0	2.4	2.4	0.0	2.4	0.0	0.0	0.0
77.5°	2.4	0.0	2.4	2.4	0.0	0.0	0.0	2.4	0.0
80°	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	2.4
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)