

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: P247616

Luminaire Tested: **LSR8B100D010 EC8B100927 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B100927 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5629.5 lumens  
Efficiency: N/A  
Efficacy: 53.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

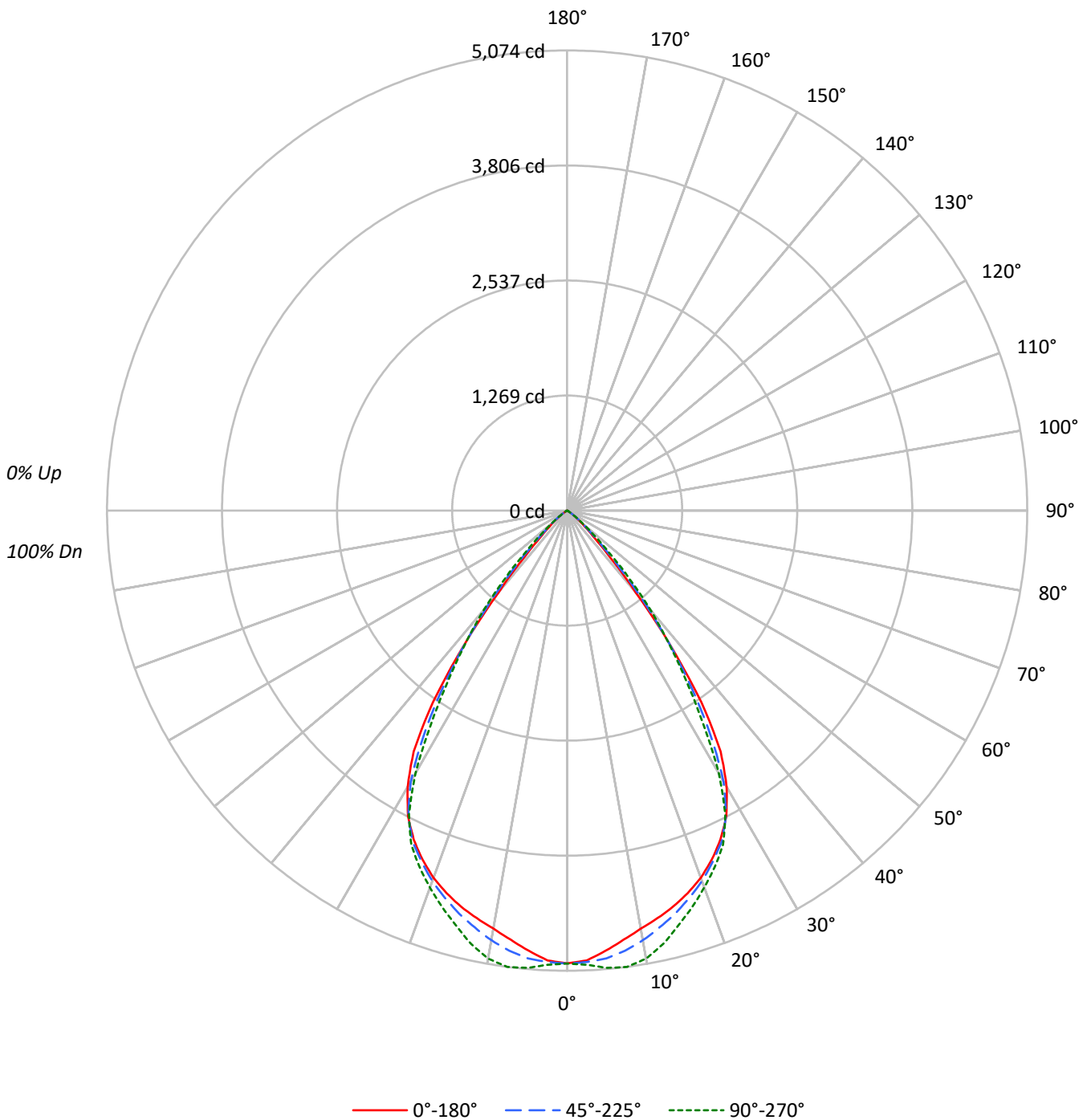
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
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°	469.4	8.3
10°-20°	1298.9	23.1
20°-30°	1830.2	32.5
30°-40°	1480.7	26.3
40°-50°	470.1	8.4
50°-60°	75.2	1.3
60°-70°	5.1	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	3598.5	63.9
0°-40°	5079.2	90.2
0°-60°	5624.4	99.9
0°-90°	5629.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5629.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4993	4993	4993	4993	4993	
5°	4872	4894	4958	5030	5062	459
15°	4521	4538	4601	4689	4737	1273
25°	4002	4009	4030	4053	4066	1827
35°	2579	2508	2402	2316	2282	1529
45°	418	452	538	615	652	390
55°	66	67	71	74	73	69
65°	2	3	3	3	3	5
75°	0	0	0	0	0	0
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°
0°	4993.3	4993.3	4993.3	4993.3	4993.3
2.5°	4964.7	4969.8	4982.1	5005.5	5012.6
5°	4872.2	4894.5	4957.7	5029.9	5061.5
7.5°	4772.4	4801.8	4894.5	5016.7	5073.6
10°	4680.8	4712.3	4811.1	4941.3	5015.7
12.5°	4603.4	4627.8	4708.2	4825.2	4894.5
15°	4520.9	4538.2	4601.4	4688.9	4736.7
17.5°	4422.2	4437.4	4479.2	4547.4	4584.0
20°	4308.2	4312.2	4347.9	4391.7	4423.2
22.5°	4166.7	4170.7	4191.1	4232.8	4254.2
25°	4001.7	4008.8	4030.2	4052.6	4065.9
27.5°	3799.1	3802.2	3792.0	3773.7	3777.8
30°	3518.2	3507.0	3449.9	3371.6	3348.2
32.5°	3149.7	3075.4	2952.2	2842.2	2797.4
35°	2578.6	2508.3	2402.4	2315.9	2282.3
37.5°	1852.8	1857.8	1850.7	1831.4	1835.4
40°	1171.7	1218.5	1329.5	1401.8	1424.1
42.5°	703.5	754.3	876.5	974.2	1005.8
45°	418.4	452.0	538.5	614.8	652.5
47.5°	268.8	285.1	327.8	372.6	394.0
50°	178.2	186.3	203.6	224.0	233.1
52.5°	114.0	117.1	125.2	132.3	139.5
55°	66.1	67.2	71.2	74.4	73.4
57.5°	34.6	34.6	34.6	34.6	34.6
60°	19.3	18.3	18.3	18.3	17.3
62.5°	9.1	9.1	9.1	8.1	8.1
65°	2.0	3.0	3.0	3.0	3.0
67.5°	0.0	0.0	0.0	0.0	1.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)