

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: P247520

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247520  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B1009727 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6868.0 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

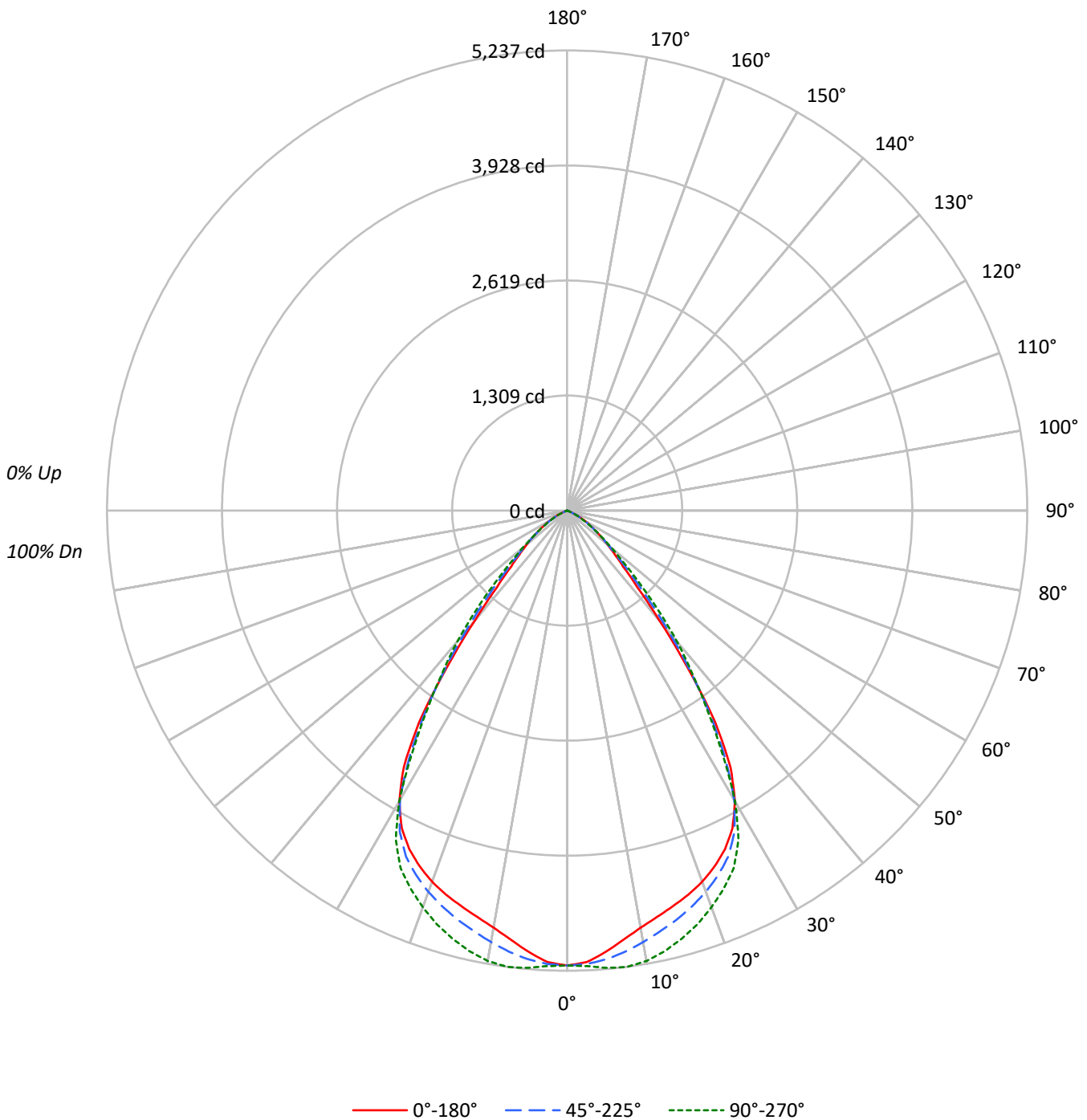
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	66	61	70	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	52	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

**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°	485.4	7.1
10°-20°	1363.3	19.8
20°-30°	1981.4	28.9
30°-40°	1752.2	25.5
40°-50°	833.5	12.1
50°-60°	347.2	5.1
60°-70°	97.0	1.4
70°-80°	7.3	0.1
80°-90°	0.5	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°	3830.1	55.8
0°-40°	5582.4	81.3
0°-60°	6763.1	98.5
0°-90°	6868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6868.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5178	5178	5178	5178	5178	
5°	5041	5066	5126	5194	5224	474
15°	4659	4702	4818	4965	5042	1316
25°	4251	4270	4342	4438	4487	1943
35°	2935	2893	2836	2793	2793	1757
45°	900	932	1013	1107	1151	749
55°	385	381	372	372	380	351
65°	97	95	90	86	85	105
75°	6	5	4	4	4	9
85°	1	1	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5177.6	5177.6	5177.6	5177.6	5177.6
2.5°	5143.2	5147.7	5164.9	5181.2	5188.5
5°	5041.0	5066.3	5126.0	5193.9	5223.7
7.5°	4924.3	4962.3	5062.7	5182.1	5237.3
10°	4818.4	4866.4	4986.7	5134.2	5203.8
12.5°	4735.2	4779.5	4902.6	5056.4	5135.1
15°	4659.2	4701.7	4818.4	4965.0	5041.9
17.5°	4583.2	4623.9	4724.3	4861.0	4935.1
20°	4494.6	4527.1	4617.6	4737.9	4803.1
22.5°	4384.2	4414.0	4490.0	4596.8	4655.6
25°	4251.2	4270.2	4341.7	4437.6	4487.3
27.5°	4074.8	4079.3	4122.7	4185.1	4222.2
30°	3818.7	3816.0	3804.3	3801.6	3822.4
32.5°	3460.5	3420.7	3351.9	3319.3	3294.0
35°	2934.8	2893.2	2836.2	2792.8	2792.8
37.5°	2243.7	2279.8	2302.5	2329.6	2343.2
40°	1629.4	1682.7	1795.8	1913.4	1945.1
42.5°	1184.3	1234.0	1356.1	1487.3	1525.3
45°	900.2	931.8	1013.3	1107.4	1150.8
47.5°	727.4	736.4	777.1	833.2	854.0
50°	596.2	598.9	611.6	640.5	656.8
52.5°	482.2	480.4	484.0	492.2	499.4
55°	385.4	380.9	371.8	371.8	380.0
57.5°	297.6	291.3	281.4	276.8	274.1
60°	228.0	221.7	210.8	203.6	202.7
62.5°	163.8	158.3	147.5	141.1	139.3
65°	96.8	95.0	89.6	85.9	85.0
67.5°	45.2	43.4	38.9	37.1	36.2
70°	21.7	20.8	19.0	18.1	17.2
72.5°	10.9	10.9	9.0	9.0	9.0
75°	6.3	5.4	4.5	4.5	4.5
77.5°	3.6	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	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)