

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 EC8B1009727 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 EC8B1009727 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: 5004.0 lumens  
Efficiency: N/A  
Efficacy: 47.1 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

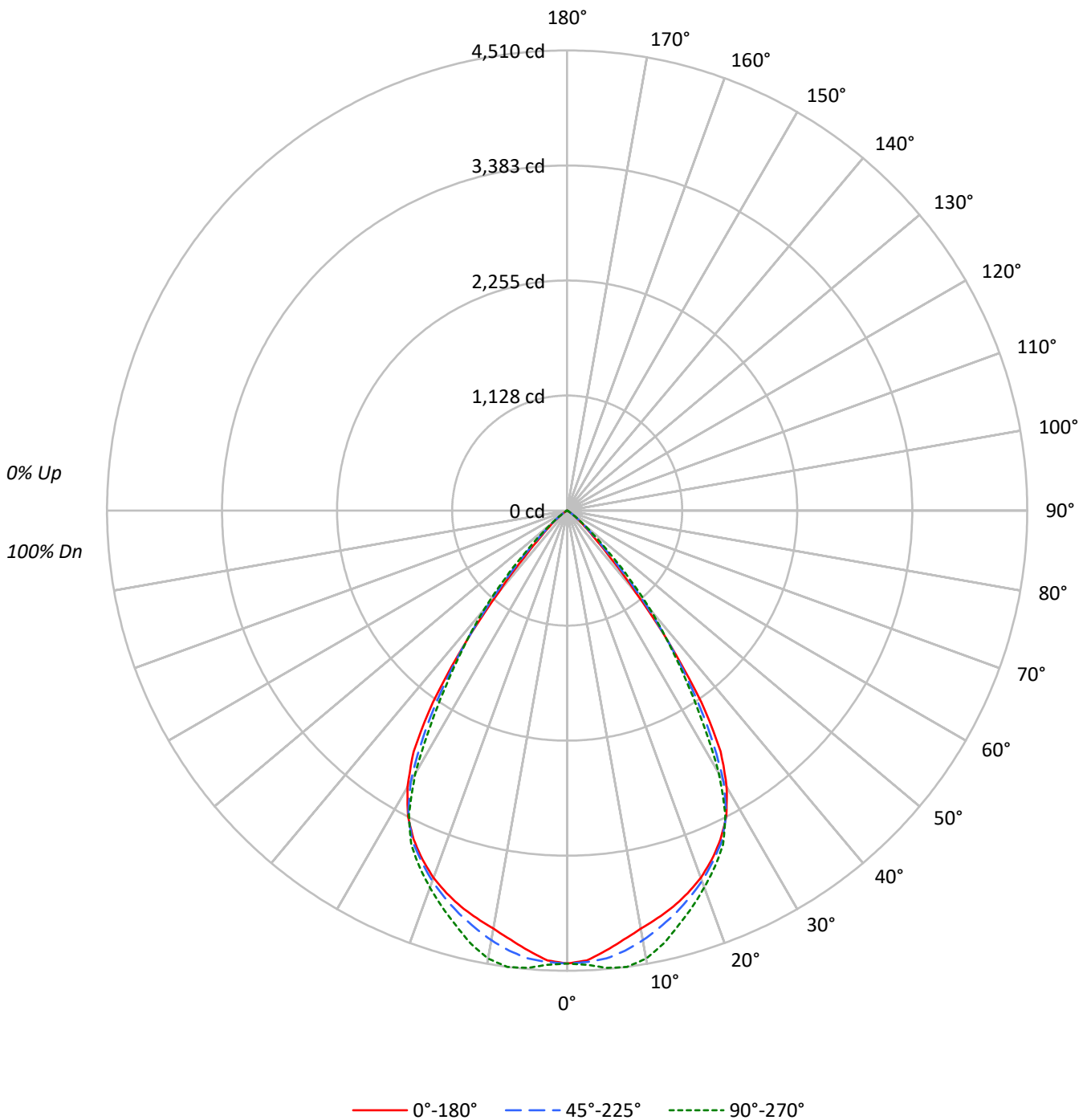
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	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	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	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	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	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	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	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	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	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	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°	417.2	8.3
10°-20°	1154.6	23.1
20°-30°	1626.9	32.5
30°-40°	1316.2	26.3
40°-50°	417.8	8.4
50°-60°	66.8	1.3
60°-70°	4.5	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°	3198.6	63.9
0°-40°	4514.8	90.2
0°-60°	4999.5	99.9
0°-90°	5004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4331	4351	4407	4471	4499	408
15°	4019	4034	4090	4168	4210	1132
25°	3557	3563	3582	3602	3614	1624
35°	2292	2230	2136	2059	2029	1359
45°	372	402	479	546	580	347
55°	59	60	63	66	65	61
65°	2	3	3	3	3	4
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°	4438.5	4438.5	4438.5	4438.5	4438.5
2.5°	4413.1	4417.6	4428.5	4449.3	4455.6
5°	4330.8	4350.7	4406.8	4471.0	4499.1
7.5°	4242.1	4268.3	4350.7	4459.3	4509.9
10°	4160.7	4188.7	4276.5	4392.3	4458.4
12.5°	4091.9	4113.6	4185.1	4289.1	4350.7
15°	4018.6	4034.0	4090.1	4167.9	4210.4
17.5°	3930.8	3944.4	3981.5	4042.1	4074.7
20°	3829.5	3833.1	3864.8	3903.7	3931.7
22.5°	3703.7	3707.3	3725.4	3762.5	3781.5
25°	3557.1	3563.4	3582.4	3602.3	3614.1
27.5°	3377.0	3379.7	3370.7	3354.4	3358.0
30°	3127.3	3117.3	3066.6	2997.0	2976.2
32.5°	2799.7	2733.7	2624.2	2526.4	2486.6
35°	2292.1	2229.6	2135.5	2058.6	2028.7
37.5°	1646.9	1651.4	1645.1	1627.9	1631.5
40°	1041.5	1083.1	1181.8	1246.0	1265.9
42.5°	625.3	670.5	779.1	866.0	894.0
45°	371.9	401.8	478.7	546.5	580.0
47.5°	238.9	253.4	291.4	331.2	350.2
50°	158.4	165.6	181.0	199.1	207.2
52.5°	101.3	104.1	111.3	117.6	124.0
55°	58.8	59.7	63.3	66.1	65.2
57.5°	30.8	30.8	30.8	30.8	30.8
60°	17.2	16.3	16.3	16.3	15.4
62.5°	8.1	8.1	8.1	7.2	7.2
65°	1.8	2.7	2.7	2.7	2.7
67.5°	0.0	0.0	0.0	0.0	0.9
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)