

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: P247668

Luminaire Tested: **LSR8B100D010 EC8B1009730 8LBS0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-87)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B1009730 8LBS0B  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7444.0 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

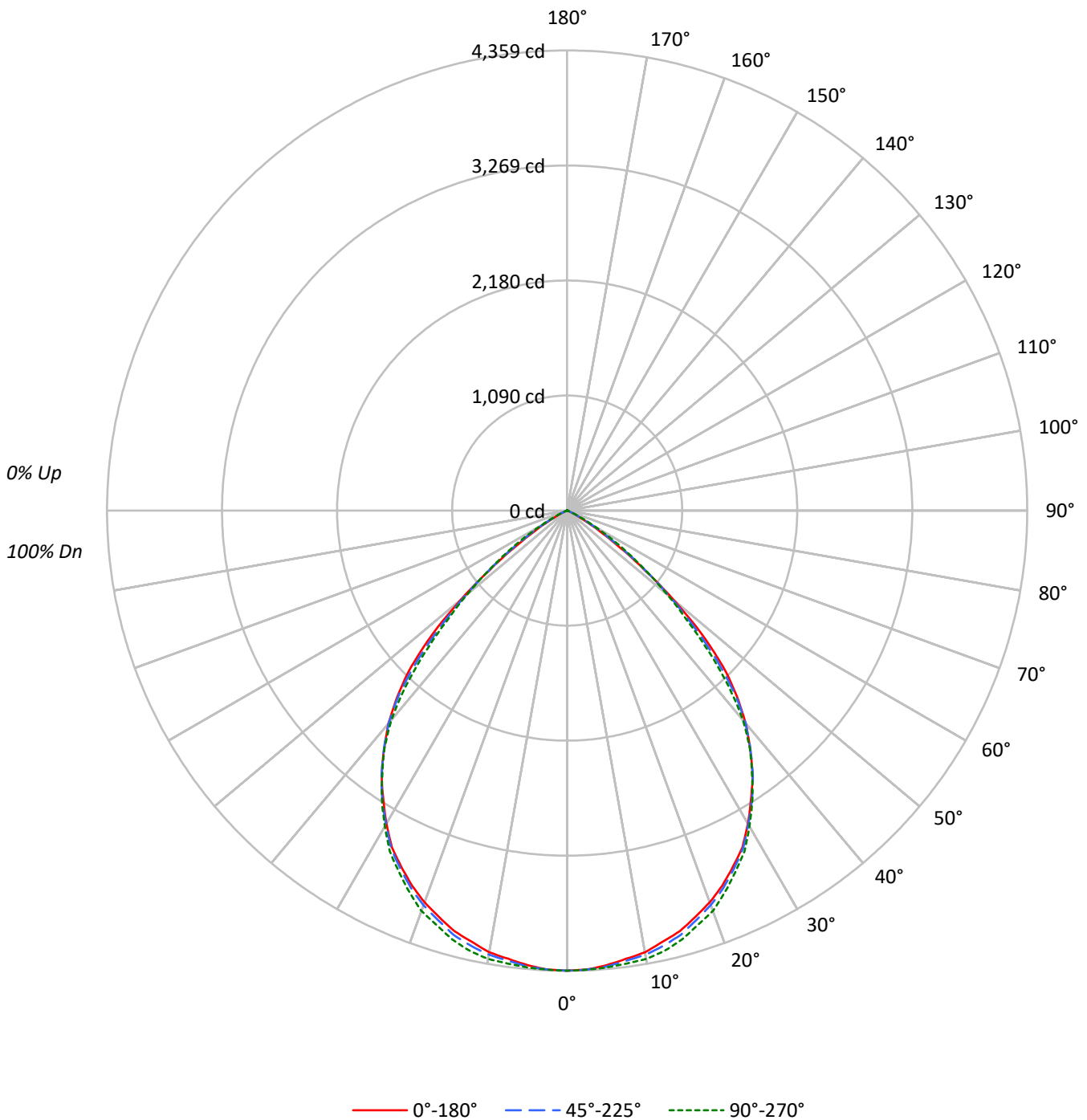
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247668

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBS0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247668

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBS0B

**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				
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73			
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65			
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59			
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44			
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40	40	40	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37	37	37	37			

**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°			



TEST NUMBER: P247668

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBS0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.6	5.5
10°-20°	1171.3	15.7
20°-30°	1720.8	23.1
30°-40°	1905.1	25.6
40°-50°	1518.3	20.4
50°-60°	622.1	8.4
60°-70°	91.6	1.2
70°-80°	1.3	0.0
80°-90°	1.9	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°	3303.7	44.4
0°-40°	5208.8	70.0
0°-60°	7349.2	98.7
0°-90°	7444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4359	4359	4359	4359	4359	
5°	4322	4330	4334	4340	4344	410
15°	4125	4128	4160	4200	4205	1161
25°	3720	3716	3740	3762	3774	1711
35°	3062	3059	3067	3063	3055	1903
45°	2089	2070	2004	1929	1912	1568
55°	615	636	668	706	707	591
65°	58	61	72	78	77	77
75°	0	0	0	0	0	3
85°	0	0	0	4	0	3
90°	0	0	0	0	0	



TEST NUMBER: P247668

CATALOG NUMBER: LSR8B100D010 EC8B1009730 8LBS0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4358.6	4358.6	4358.6	4358.6	4358.6
2.5°	4350.9	4351.9	4351.9	4347.1	4352.9
5°	4322.2	4329.9	4333.7	4340.4	4344.2
7.5°	4282.0	4280.1	4300.2	4324.1	4327.0
10°	4248.5	4244.7	4271.5	4303.1	4311.7
12.5°	4182.5	4187.2	4221.7	4254.3	4271.5
15°	4125.0	4127.9	4160.4	4199.7	4205.4
17.5°	4036.0	4044.6	4066.6	4107.8	4115.4
20°	3948.9	3952.7	3977.6	4011.1	4036.0
22.5°	3842.6	3849.3	3868.5	3898.1	3910.6
25°	3720.1	3716.2	3740.2	3762.2	3773.7
27.5°	3595.6	3588.9	3607.1	3628.2	3638.7
30°	3423.3	3421.4	3431.9	3445.3	3453.9
32.5°	3242.4	3247.2	3257.7	3261.5	3264.4
35°	3062.4	3058.6	3067.2	3063.4	3054.8
37.5°	2848.9	2851.8	2851.8	2848.0	2844.1
40°	2631.6	2634.5	2628.8	2607.7	2592.4
42.5°	2377.0	2378.9	2349.2	2302.3	2270.7
45°	2088.8	2069.7	2003.6	1929.0	1911.7
47.5°	1726.0	1693.5	1624.5	1568.1	1548.0
50°	1320.1	1296.2	1273.2	1243.5	1237.8
52.5°	925.7	938.2	946.8	956.3	953.5
55°	614.6	635.6	668.2	706.5	707.4
57.5°	369.5	393.5	434.6	476.7	496.8
60°	217.3	226.9	256.6	288.1	297.7
62.5°	117.7	120.6	134.0	165.6	160.8
65°	58.4	61.3	71.8	78.5	76.6
67.5°	28.7	31.6	33.5	43.1	35.4
70°	6.7	1.9	3.8	4.8	1.9
72.5°	0.0	0.0	1.9	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	3.8
80°	8.6	5.7	1.9	1.9	2.9
82.5°	2.9	1.0	2.9	1.0	0.0
85°	0.0	0.0	0.0	3.8	0.0
87.5°	4.8	1.0	1.0	2.9	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)