

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: P247135

Luminaire Tested: **LSR8B90D010 EC8B90927 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B90D010 EC8B90927 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8294.6 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

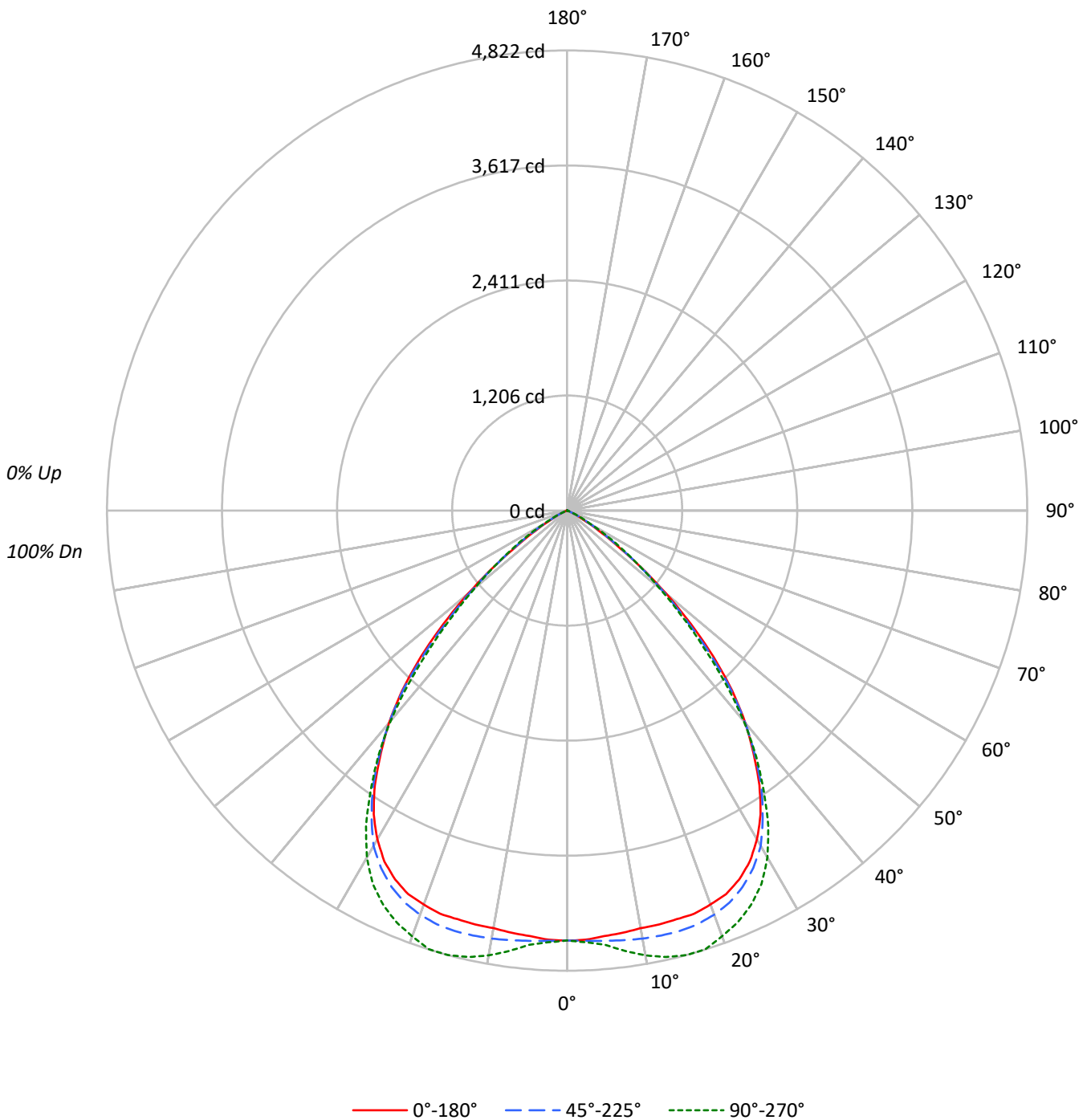
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.5	5.2
10°-20°	1298.0	15.6
20°-30°	2008.5	24.2
30°-40°	2200.0	26.5
40°-50°	1609.5	19.4
50°-60°	631.5	7.6
60°-70°	102.2	1.2
70°-80°	9.4	0.1
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°	3740.1	45.1
0°-40°	5940.1	71.6
0°-60°	8181.1	98.6
0°-90°	8294.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8294.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4506	4506	4506	4506	4506	
5°	4476	4487	4526	4558	4568	426
15°	4433	4462	4561	4730	4822	1256
25°	4265	4278	4351	4483	4559	1955
35°	3513	3519	3549	3583	3592	2175
45°	2168	2165	2107	2042	2014	1651
55°	622	635	662	686	708	612
65°	74	72	78	86	93	90
75°	5	8	10	7	9	9
85°	0	0	0	0	0	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4505.5	4505.5	4505.5	4505.5	4505.5
2.5°	4501.1	4503.8	4512.6	4521.4	4526.8
5°	4476.5	4487.1	4525.9	4558.5	4568.2
7.5°	4461.4	4479.1	4539.9	4622.0	4653.8
10°	4443.0	4468.5	4554.9	4671.4	4733.2
12.5°	4443.8	4468.5	4560.3	4712.0	4791.4
15°	4433.2	4462.3	4561.1	4730.5	4822.3
17.5°	4430.6	4444.7	4545.2	4717.2	4818.7
20°	4392.7	4412.0	4506.4	4659.1	4746.4
22.5°	4351.2	4359.9	4446.4	4596.4	4670.6
25°	4264.7	4277.9	4351.2	4482.6	4559.4
27.5°	4145.6	4148.2	4222.3	4344.1	4411.1
30°	3978.9	3992.1	4058.2	4148.2	4195.9
32.5°	3772.5	3770.7	3813.9	3892.4	3923.3
35°	3513.0	3519.2	3549.3	3582.8	3591.6
37.5°	3208.7	3216.6	3236.8	3248.3	3256.3
40°	2905.2	2905.2	2902.5	2890.2	2880.5
42.5°	2559.4	2547.9	2534.6	2480.0	2456.1
45°	2168.5	2165.0	2106.8	2042.3	2014.1
47.5°	1757.4	1738.0	1677.2	1625.1	1613.6
50°	1354.3	1333.9	1302.2	1276.5	1259.8
52.5°	965.1	950.2	963.4	963.4	961.6
55°	622.0	635.2	661.7	685.5	708.4
57.5°	394.3	412.0	452.6	483.4	491.4
60°	225.9	239.1	267.3	294.6	299.9
62.5°	142.1	142.9	161.4	177.3	187.1
65°	74.1	72.3	78.5	86.5	92.6
67.5°	30.8	30.8	37.0	36.2	45.9
70°	15.9	13.3	15.0	17.7	20.2
72.5°	11.5	8.8	12.4	15.9	7.1
75°	5.3	8.0	9.7	7.1	8.8
77.5°	7.1	7.1	5.3	8.8	1.8
80°	5.3	3.5	6.2	2.7	0.0
82.5°	0.9	1.8	0.9	0.9	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.7	4.4	3.5	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)