

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: P247139

Luminaire Tested: **LSR8B90D010 EC8B90930 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247139  
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 EC8B90930 8LBS0LI  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8744.9 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

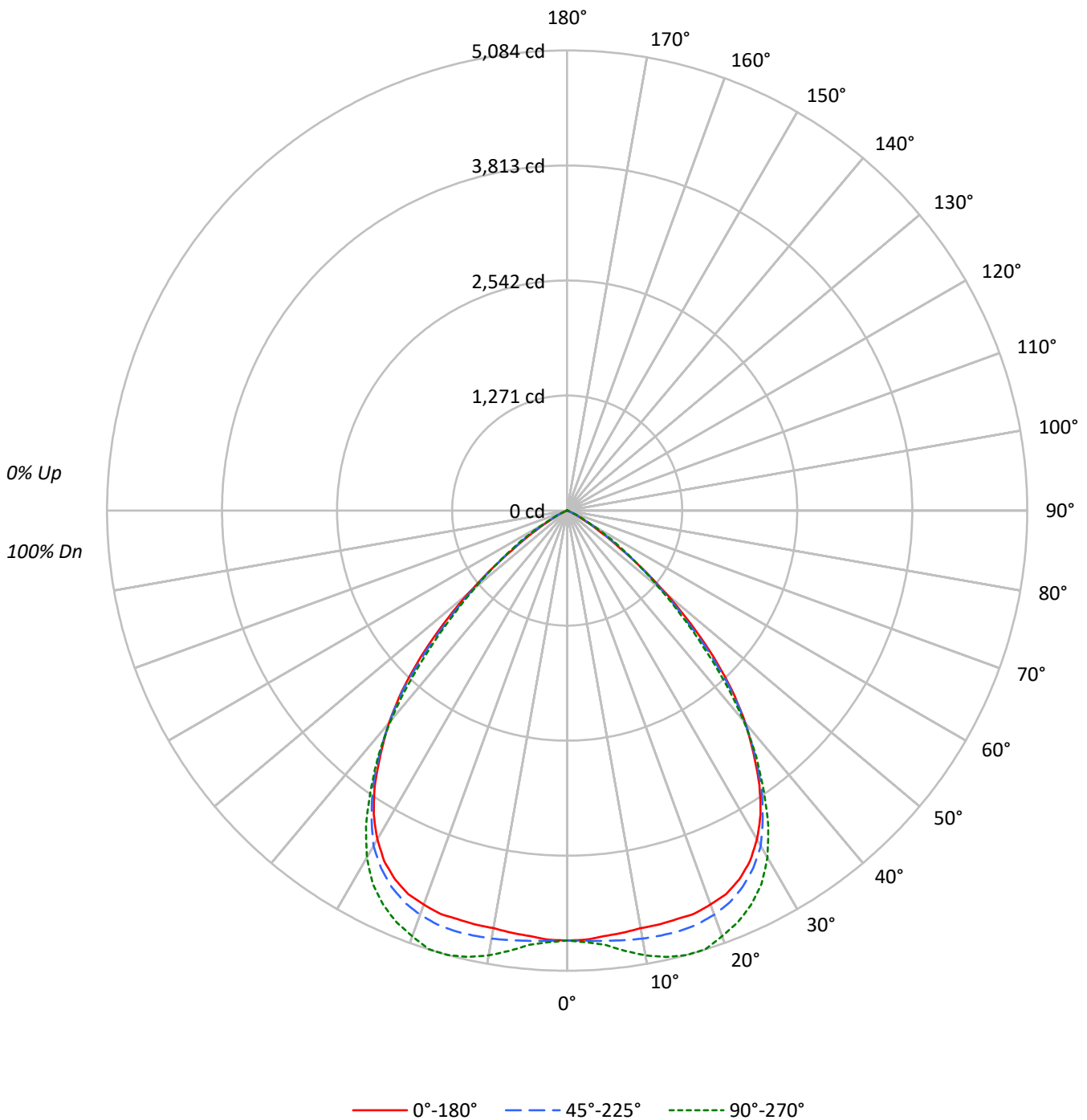
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	457.1	5.2
10°-20°	1368.5	15.6
20°-30°	2117.6	24.2
30°-40°	2319.4	26.5
40°-50°	1696.9	19.4
50°-60°	665.8	7.6
60°-70°	107.7	1.2
70°-80°	9.9	0.1
80°-90°	2.0	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°	3943.2	45.1
0°-40°	6262.6	71.6
0°-60°	8625.3	98.6
0°-90°	8744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8744.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4750	4750	4750	4750	4750	
5°	4719	4731	4772	4806	4816	450
15°	4674	4705	4809	4987	5084	1324
25°	4496	4510	4587	4726	4807	2062
35°	3704	3710	3742	3777	3786	2293
45°	2286	2283	2221	2153	2124	1741
55°	656	670	698	723	747	645
65°	78	76	83	91	98	95
75°	6	8	10	7	9	10
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°	4750.1	4750.1	4750.1	4750.1	4750.1
2.5°	4745.5	4748.3	4757.6	4766.9	4772.4
5°	4719.4	4730.6	4771.5	4806.0	4816.2
7.5°	4703.6	4722.2	4786.4	4872.9	4906.4
10°	4684.1	4711.1	4802.3	4925.0	4990.1
12.5°	4685.0	4711.1	4807.9	4967.8	5051.6
15°	4673.9	4704.6	4808.8	4987.3	5084.1
17.5°	4671.1	4686.0	4792.1	4973.4	5080.4
20°	4631.1	4651.6	4751.0	4912.0	5004.0
22.5°	4587.4	4596.7	4687.8	4846.0	4924.1
25°	4496.2	4510.1	4587.4	4725.9	4806.8
27.5°	4370.7	4373.5	4451.6	4580.0	4650.6
30°	4194.9	4208.8	4278.5	4373.5	4423.7
32.5°	3977.2	3975.4	4020.9	4103.8	4136.3
35°	3703.8	3710.3	3741.9	3777.2	3786.5
37.5°	3382.8	3391.2	3412.7	3424.8	3433.1
40°	3062.9	3062.9	3060.1	3047.1	3036.9
42.5°	2698.2	2686.3	2672.2	2614.6	2589.5
45°	2286.3	2282.6	2221.1	2153.2	2123.5
47.5°	1852.8	1832.4	1768.2	1713.3	1701.2
50°	1427.7	1406.3	1372.9	1345.9	1328.3
52.5°	1017.5	1001.7	1015.7	1015.7	1013.8
55°	655.8	669.7	697.6	722.7	746.9
57.5°	415.8	434.4	477.2	509.7	518.1
60°	238.1	252.1	281.8	310.6	316.2
62.5°	149.8	150.7	170.2	187.0	197.2
65°	78.1	76.2	82.7	91.1	97.6
67.5°	32.5	32.5	39.0	38.1	48.3
70°	16.7	13.9	15.8	18.6	21.4
72.5°	12.1	9.3	13.0	16.7	7.4
75°	5.6	8.4	10.2	7.4	9.3
77.5°	7.4	7.4	5.6	9.3	1.9
80°	5.6	3.7	6.5	2.8	0.0
82.5°	0.9	1.9	0.9	0.9	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.8	4.6	3.7	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)