

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: P247904

Luminaire Tested: **LSR8B150D010 EC8B1509727 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-91)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B150D010 EC8B1509727 8LBSOLI  
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: 12629.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.24  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

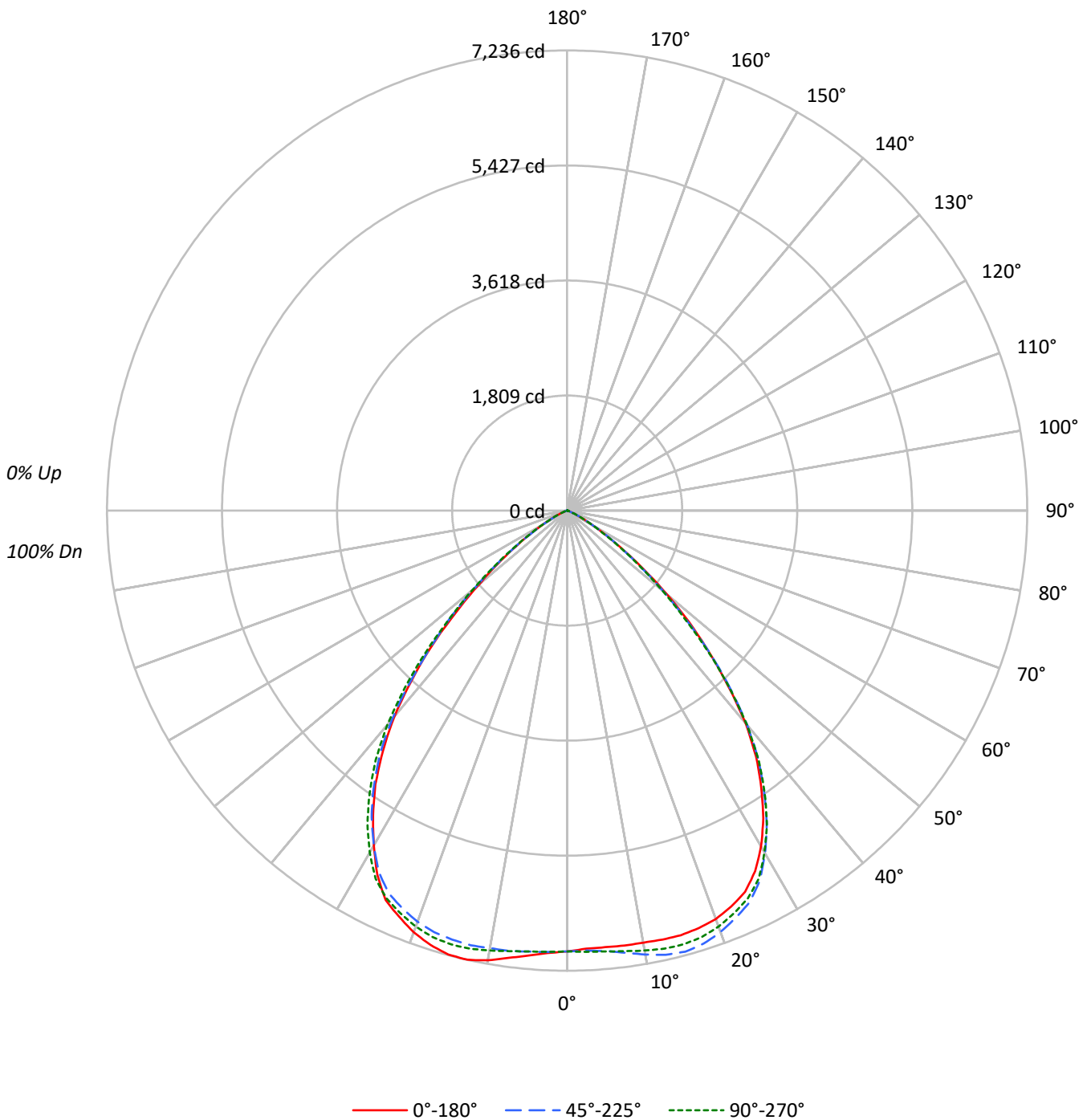
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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	66	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	50	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
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°	666.6	5.3
10°-20°	1995.8	15.8
20°-30°	3067.3	24.3
30°-40°	3318.2	26.3
40°-50°	2391.7	18.9
50°-60°	970.9	7.7
60°-70°	193.9	1.5
70°-80°	19.4	0.2
80°-90°	5.2	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°	5729.6	45.4
0°-40°	9047.9	71.6
0°-60°	12410.5	98.3
0°-90°	12629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6931	6931	6931	6931	6931	
5°	6892	6950	6958	6960	7022	658
15°	6912	7180	7062	6984	7226	1953
25°	6617	6793	6725	6639	6758	3025
35°	5321	5399	5414	5303	5254	3304
45°	3162	3177	3136	3031	3016	2439
55°	1084	1051	1045	1010	979	1017
65°	168	182	162	155	166	201
75°	15	19	17	16	17	20
85°	6	9	12	6	5	5
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6931.2	6931.2	6931.2	6931.2	6931.2	6931.2	6931.2	6931.2	6931.2
2.5°	6895.7	6939.6	6925.0	6906.2	6945.9	6938.2	6946.5	6950.0	6963.3
5°	6891.5	6941.0	6950.0	6929.8	6957.7	6944.5	6960.5	6990.4	7022.4
7.5°	6898.5	6973.0	7012.0	7000.2	6986.9	6941.7	6983.5	7052.4	7094.9
10°	6898.5	6997.4	7087.9	7087.2	7024.5	6940.3	6986.9	7106.0	7180.5
12.5°	6909.6	7030.8	7154.8	7163.1	7056.6	6950.0	7000.2	7140.8	7235.5
15°	6912.4	7031.5	7180.5	7184.7	7062.1	6936.8	6983.5	7134.6	7226.5
17.5°	6883.2	6998.1	7139.4	7154.1	7030.8	6903.4	6950.7	7085.8	7158.9
20°	6834.4	6937.5	7052.4	7076.8	6960.5	6839.3	6881.1	6997.4	7056.6
22.5°	6741.1	6835.1	6929.8	6947.9	6854.6	6748.8	6769.7	6860.2	6909.6
25°	6617.2	6710.5	6793.4	6803.1	6725.1	6630.4	6638.8	6707.7	6757.8
27.5°	6397.1	6485.6	6560.8	6572.6	6526.0	6425.0	6409.7	6442.4	6463.3
30°	6099.1	6159.7	6222.4	6260.0	6205.7	6122.1	6078.9	6096.3	6077.5
32.5°	5741.2	5803.2	5841.5	5853.3	5845.0	5771.8	5721.0	5677.1	5679.9
35°	5320.6	5377.0	5398.6	5420.2	5413.9	5356.8	5303.2	5262.1	5254.5
37.5°	4879.9	4917.5	4941.8	4958.5	4944.6	4908.4	4838.8	4767.7	4755.9
40°	4362.5	4419.6	4400.1	4408.4	4395.2	4349.3	4279.6	4239.2	4228.1
42.5°	3755.3	3805.4	3801.2	3804.0	3774.8	3712.1	3651.5	3629.3	3617.4
45°	3162.0	3186.4	3177.3	3148.1	3136.3	3097.3	3031.1	2988.6	3016.5
47.5°	2603.6	2595.2	2534.6	2511.0	2493.5	2499.1	2484.5	2410.0	2369.6
50°	2042.3	2020.7	1962.9	1927.4	1946.9	1962.2	1907.9	1863.4	1813.9
52.5°	1514.5	1518.7	1463.7	1424.7	1442.8	1445.6	1413.5	1388.5	1373.9
55°	1084.2	1084.2	1050.8	1038.2	1045.2	1032.0	1009.7	1001.3	979.0
57.5°	737.4	742.3	740.2	725.6	692.8	681.0	668.5	681.0	688.7
60°	474.2	486.0	483.9	482.6	454.7	426.8	438.7	449.8	451.2
62.5°	291.8	297.3	307.1	298.7	284.8	262.5	259.7	276.4	291.8
65°	168.5	174.8	182.4	176.9	162.2	158.8	154.6	163.6	166.4
67.5°	96.1	93.3	94.0	89.8	85.6	80.8	81.5	85.6	91.9
70°	50.8	43.9	44.6	40.4	43.9	39.0	37.6	41.1	42.5
72.5°	25.8	25.1	28.5	28.5	30.6	27.2	27.2	25.8	29.2
75°	15.3	17.4	18.8	20.9	16.7	16.0	16.0	16.0	16.7
77.5°	4.2	2.1	2.8	9.1	3.5	7.0	3.5	2.8	6.3
80°	11.8	7.0	4.2	7.7	8.4	4.2	10.4	9.7	2.8
82.5°	4.2	0.0	7.7	8.4	7.0	7.0	8.4	8.4	7.7
85°	6.3	4.2	9.1	10.4	11.8	7.0	5.6	3.5	4.9
87.5°	2.8	0.0	4.2	3.5	2.1	0.7	2.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)