

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: P247140

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBSOLI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247140  
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: LSR8B100D010 EC8B100930 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: 10089.0 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

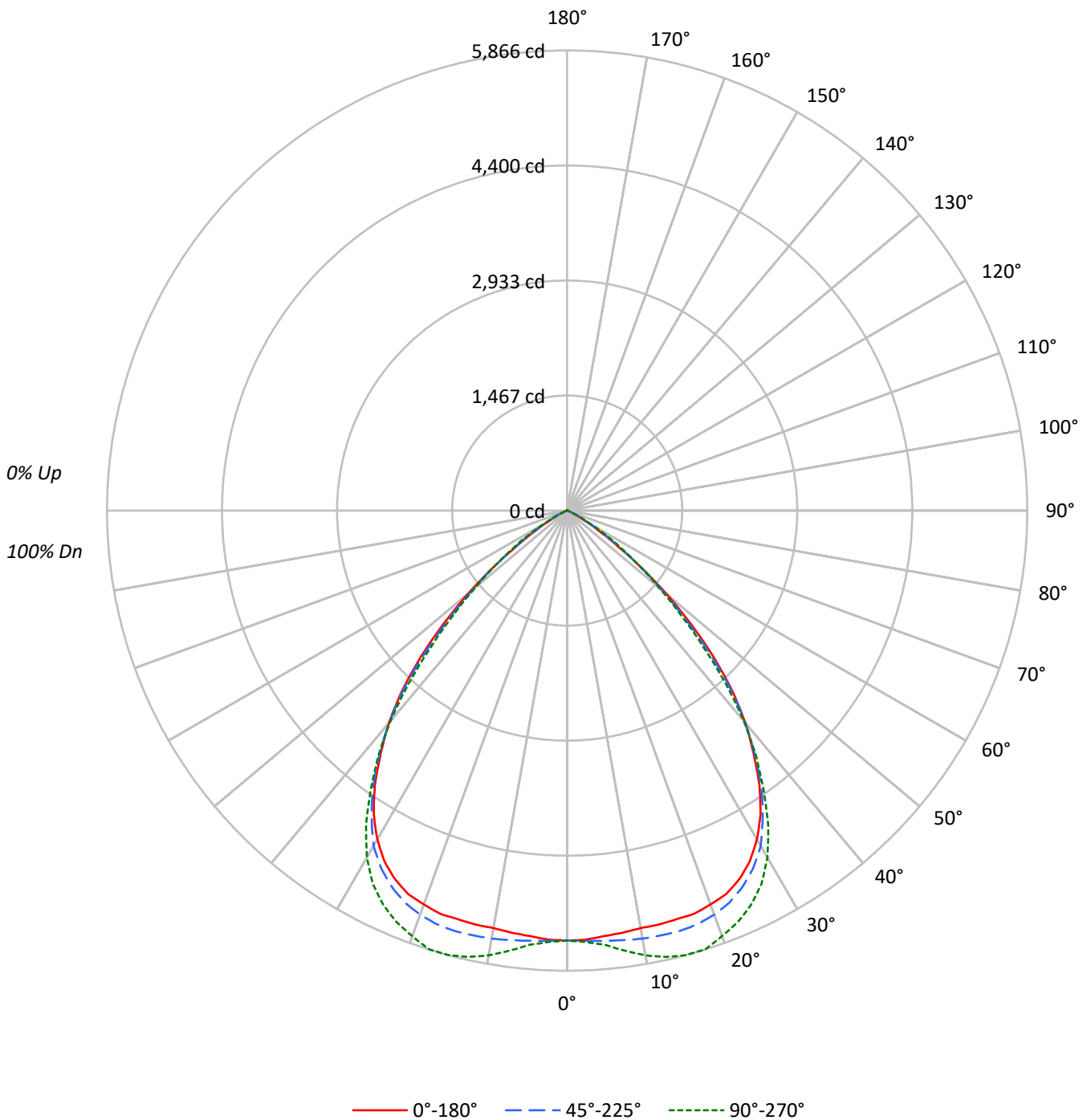
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				
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	84	82	82	82	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73	73	73	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66	66	66	66
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53	53	53	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48	48	48	48
8	70	59	51	46	69	58	51	46	57	51	46	56	50	46	55	49	46	44	44	44	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.3	5.2
10°-20°	1578.8	15.6
20°-30°	2443.1	24.2
30°-40°	2675.9	26.5
40°-50°	1957.7	19.4
50°-60°	768.1	7.6
60°-70°	124.3	1.2
70°-80°	11.5	0.1
80°-90°	2.3	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°	4549.2	45.1
0°-40°	7225.1	71.6
0°-60°	9950.9	98.6
0°-90°	10089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10089.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5480	5480	5480	5480	5480	
5°	5445	5458	5505	5545	5556	519
15°	5392	5428	5548	5754	5866	1527
25°	5187	5203	5292	5452	5546	2379
35°	4273	4280	4317	4358	4368	2646
45°	2638	2633	2562	2484	2450	2009
55°	757	773	805	834	862	744
65°	90	88	96	105	113	109
75°	6	10	12	9	11	11
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°	5480.2	5480.2	5480.2	5480.2	5480.2
2.5°	5474.9	5478.1	5488.9	5499.5	5506.0
5°	5444.8	5457.7	5504.9	5544.6	5556.5
7.5°	5426.5	5448.1	5522.0	5621.9	5660.5
10°	5404.0	5435.2	5540.3	5682.0	5757.1
12.5°	5405.1	5435.2	5546.8	5731.3	5828.0
15°	5392.2	5427.7	5547.8	5753.9	5865.5
17.5°	5389.0	5406.2	5528.5	5737.7	5861.1
20°	5342.9	5366.5	5481.4	5667.0	5773.2
22.5°	5292.5	5303.2	5408.4	5590.8	5680.9
25°	5187.3	5203.3	5292.5	5452.3	5545.7
27.5°	5042.4	5045.6	5135.7	5283.8	5365.4
30°	4839.6	4855.7	4936.2	5045.6	5103.6
32.5°	4588.5	4586.3	4638.9	4734.4	4772.0
35°	4273.0	4280.5	4317.0	4357.8	4368.5
37.5°	3902.8	3912.5	3937.2	3951.1	3960.7
40°	3533.6	3533.6	3530.5	3515.5	3503.6
42.5°	3113.0	3099.1	3083.0	3016.4	2987.5
45°	2637.6	2633.3	2562.5	2484.1	2449.8
47.5°	2137.6	2114.0	2039.9	1976.7	1962.6
50°	1647.2	1622.5	1583.9	1552.7	1532.4
52.5°	1173.9	1155.8	1171.8	1171.8	1169.7
55°	756.6	772.6	804.8	833.8	861.7
57.5°	479.7	501.1	550.5	588.1	597.7
60°	274.8	290.8	325.1	358.4	364.9
62.5°	172.7	173.9	196.4	215.7	227.5
65°	90.1	88.0	95.5	105.1	112.7
67.5°	37.6	37.6	45.1	43.9	55.8
70°	19.3	16.1	18.3	21.4	24.7
72.5°	13.9	10.8	15.0	19.3	8.6
75°	6.4	9.6	11.8	8.6	10.8
77.5°	8.6	8.6	6.4	10.8	2.1
80°	6.4	4.3	7.5	3.3	0.0
82.5°	1.1	2.1	1.1	1.1	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.3	5.4	4.3	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)