

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: P247712

Luminaire Tested: **LSR8B100D010 EC8B1009727 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B100D010 EC8B1009727 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7832.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

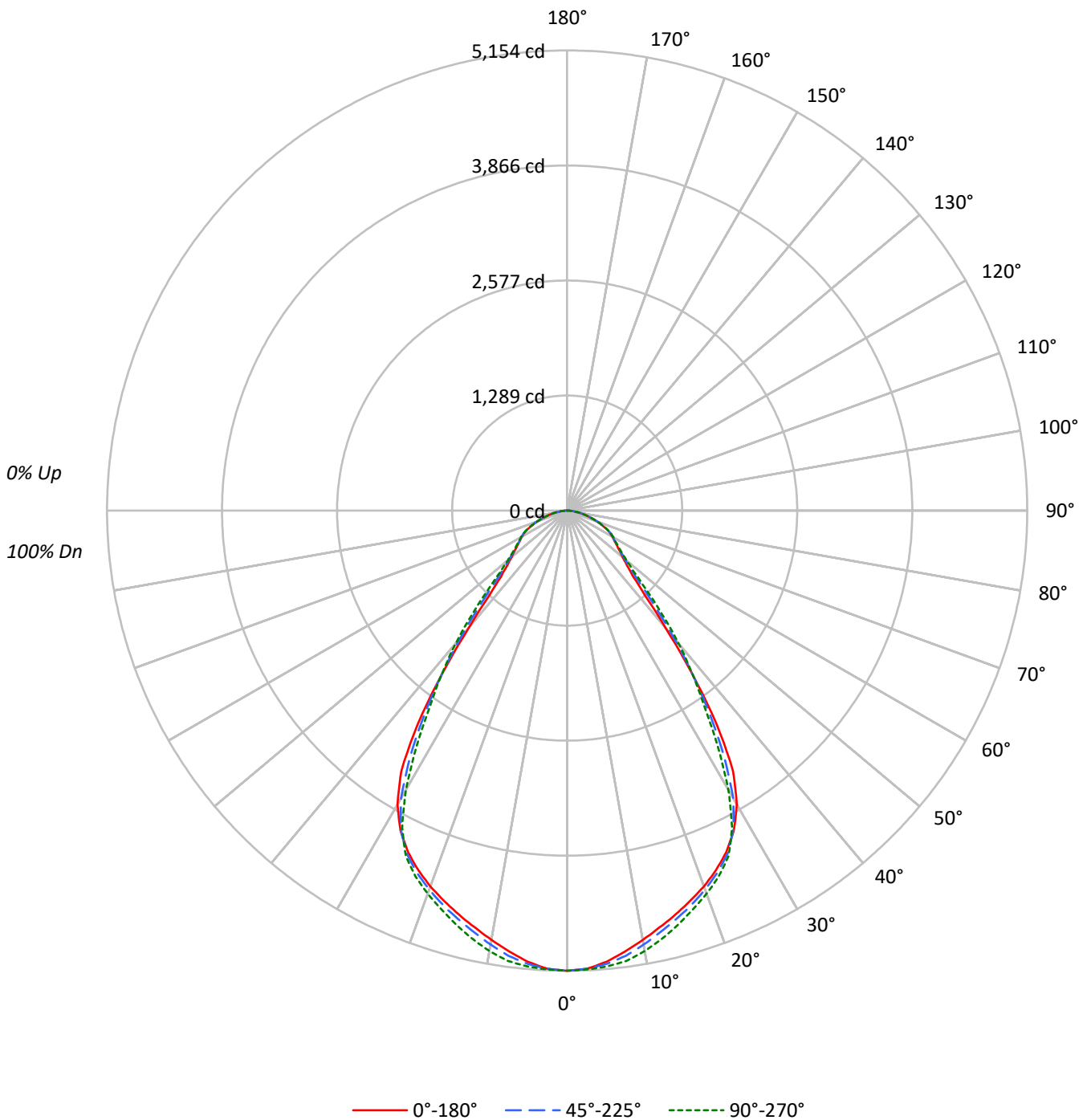
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57			
6	79	67	60	55	77	67	60	54	65	59	54	63	58	54	62	57	53	51			
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47			
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43			
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	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°	481.6	6.1
10°-20°	1336.2	17.1
20°-30°	1931.7	24.7
30°-40°	1728.8	22.1
40°-50°	935.6	11.9
50°-60°	623.6	8.0
60°-70°	477.5	6.1
70°-80°	253.1	3.2
80°-90°	64.0	0.8
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°	3749.5	47.9
0°-40°	5478.3	69.9
0°-60°	7037.4	89.9
0°-90°	7832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7832.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5154	5154	5154	5154	5154	
5°	5072	5074	5096	5116	5125	478
15°	4684	4693	4734	4780	4802	1322
25°	4218	4228	4245	4264	4273	1930
35°	2918	2888	2787	2706	2680	1766
45°	1050	1080	1148	1220	1246	864
55°	679	681	688	695	698	614
65°	483	485	489	492	492	474
75°	234	234	237	238	238	252
85°	54	54	54	55	54	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5154.0	5154.0	5154.0	5154.0	5154.0
2.5°	5136.8	5135.0	5135.9	5141.3	5144.1
5°	5071.7	5074.4	5096.1	5116.0	5125.1
7.5°	4980.3	4992.0	5029.1	5068.0	5088.0
10°	4882.6	4894.3	4936.8	4992.0	5009.2
12.5°	4782.1	4796.6	4834.6	4890.7	4911.5
15°	4684.4	4693.4	4734.2	4780.3	4802.0
17.5°	4584.0	4593.0	4630.1	4666.3	4683.5
20°	4479.0	4488.9	4517.0	4547.8	4566.8
22.5°	4358.6	4368.6	4392.1	4419.3	4436.5
25°	4218.4	4228.3	4244.6	4264.5	4272.7
27.5°	4041.0	4047.4	4032.0	4015.7	4001.2
30°	3800.4	3780.4	3718.9	3640.2	3609.4
32.5°	3458.3	3394.1	3275.5	3179.6	3144.3
35°	2918.1	2888.3	2786.9	2706.4	2680.2
37.5°	2288.4	2308.3	2301.0	2295.6	2301.0
40°	1706.5	1752.7	1852.2	1920.1	1941.8
42.5°	1292.1	1336.5	1448.7	1542.8	1575.3
45°	1049.6	1080.4	1148.3	1219.7	1246.0
47.5°	905.8	922.9	957.3	995.3	1008.0
50°	813.5	820.7	837.9	859.6	866.8
52.5°	740.2	743.8	753.7	765.5	767.3
55°	678.6	681.3	687.7	694.9	697.6
57.5°	627.1	629.8	631.6	636.1	637.9
60°	586.3	586.3	590.0	593.6	595.4
62.5°	542.0	542.0	545.6	549.2	549.2
65°	483.2	485.0	488.6	492.2	492.2
67.5°	418.9	419.8	422.6	426.2	425.3
70°	354.7	354.7	357.4	359.2	360.1
72.5°	293.2	292.3	296.8	297.7	295.0
75°	234.4	234.4	237.1	238.0	238.0
77.5°	182.8	181.9	181.9	182.8	183.7
80°	133.9	134.8	133.9	135.7	137.5
82.5°	93.2	92.3	92.3	92.3	91.4
85°	54.3	54.3	54.3	55.2	54.3
87.5°	21.7	21.7	20.8	20.8	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)