

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: P247713

Luminaire Tested: **LSR8B120D010 EC8B120927 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247713  
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: LSR8B120D010 EC8B120927 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: 9988.9 lumens  
Efficiency: N/A  
Efficacy: 84.4 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

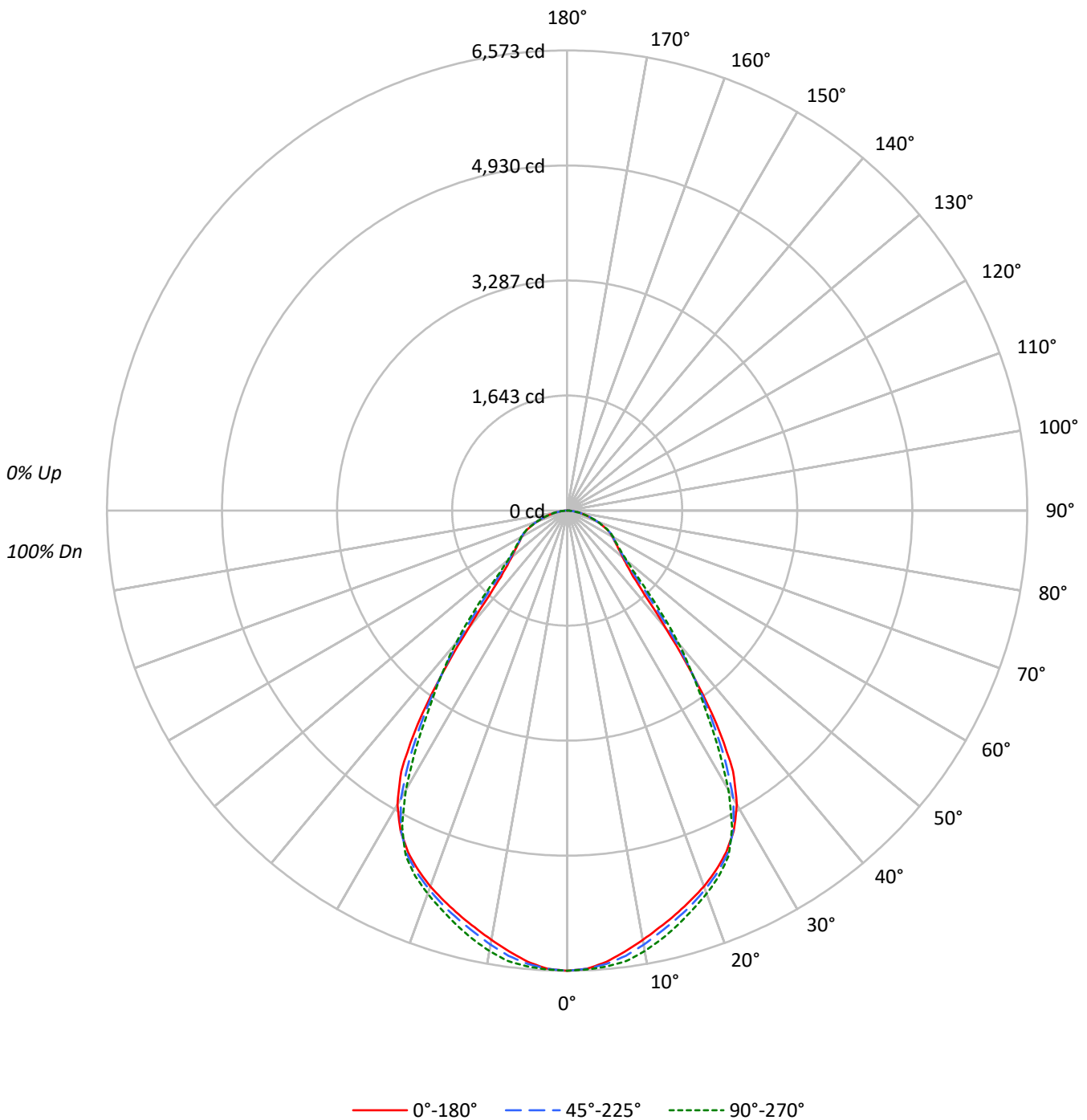
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	614.2	6.1
10°-20°	1704.2	17.1
20°-30°	2463.7	24.7
30°-40°	2204.9	22.1
40°-50°	1193.2	11.9
50°-60°	795.3	8.0
60°-70°	609.0	6.1
70°-80°	322.8	3.2
80°-90°	81.6	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°	4782.1	47.9
0°-40°	6987.0	69.9
0°-60°	8975.4	89.9
0°-90°	9988.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9988.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6573	6573	6573	6573	6573	
5°	6468	6472	6500	6525	6536	610
15°	5974	5986	6038	6097	6124	1686
25°	5380	5393	5414	5439	5449	2462
35°	3722	3684	3554	3452	3418	2253
45°	1339	1378	1464	1556	1589	1102
55°	866	869	877	886	890	783
65°	616	618	623	628	628	604
75°	299	299	302	304	304	321
85°	69	69	69	70	69	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6573.4	6573.4	6573.4	6573.4	6573.4
2.5°	6551.4	6549.2	6550.3	6557.2	6560.7
5°	6468.4	6471.8	6499.6	6524.9	6536.5
7.5°	6351.9	6366.8	6414.1	6463.8	6489.1
10°	6227.2	6242.2	6296.4	6366.8	6388.8
12.5°	6099.1	6117.5	6166.0	6237.6	6264.1
15°	5974.4	5986.0	6037.9	6096.7	6124.5
17.5°	5846.3	5857.9	5905.2	5951.4	5973.3
20°	5712.5	5725.1	5760.9	5800.2	5824.5
22.5°	5559.0	5571.7	5601.7	5636.2	5658.2
25°	5380.1	5392.8	5413.6	5438.9	5449.4
27.5°	5154.0	5162.0	5142.4	5121.6	5103.1
30°	4847.0	4821.5	4743.1	4642.7	4603.5
32.5°	4410.7	4328.8	4177.6	4055.3	4010.3
35°	3721.7	3683.7	3554.4	3451.7	3418.2
37.5°	2918.6	2943.9	2934.7	2927.8	2934.7
40°	2176.5	2235.4	2362.3	2448.9	2476.6
42.5°	1648.0	1704.5	1847.6	1967.6	2009.1
45°	1338.6	1377.9	1464.5	1555.6	1589.1
47.5°	1155.1	1177.1	1221.0	1269.4	1285.6
50°	1037.5	1046.7	1068.6	1096.3	1105.5
52.5°	944.0	948.6	961.3	976.3	978.6
55°	865.6	869.0	877.0	886.3	889.8
57.5°	799.8	803.2	805.5	811.2	813.6
60°	747.8	747.8	752.4	757.0	759.4
62.5°	691.3	691.3	695.9	700.5	700.5
65°	616.3	618.5	623.1	627.8	627.8
67.5°	534.3	535.5	539.0	543.6	542.4
70°	452.4	452.4	455.8	458.1	459.3
72.5°	374.0	372.7	378.6	379.7	376.2
75°	298.9	298.9	302.4	303.5	303.5
77.5°	233.1	232.0	232.0	233.1	234.2
80°	170.8	171.9	170.8	173.1	175.4
82.5°	118.9	117.7	117.7	117.7	116.6
85°	69.2	69.2	69.2	70.4	69.2
87.5°	27.7	27.7	26.6	26.6	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)