

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: P247617

Luminaire Tested: **LD8B120D010 ER8B120927 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247617  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120927 8LBW0B  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6381.1 lumens  
Efficiency: N/A  
Efficacy: 53.9 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

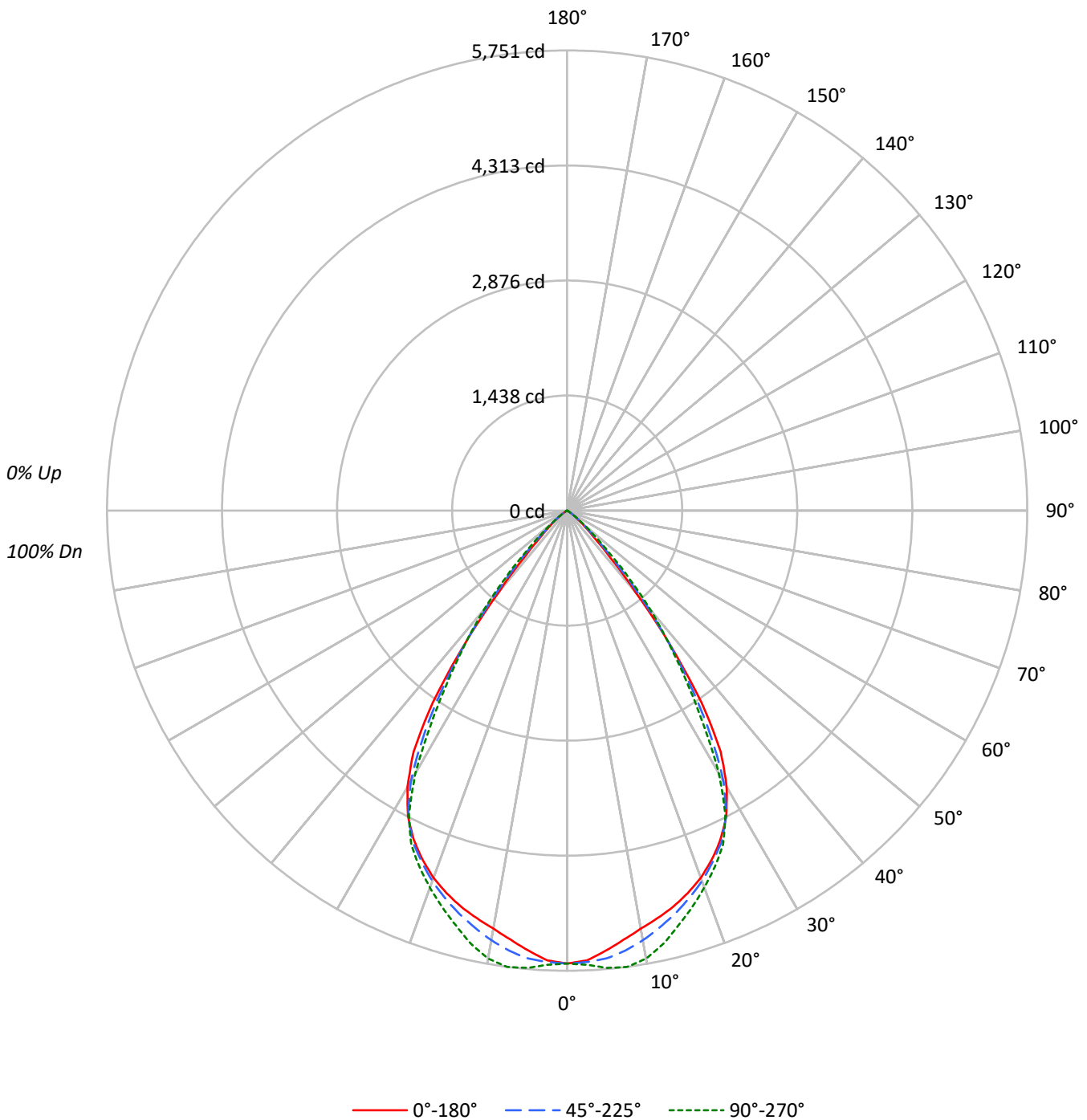
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247617

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P247617

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBW0B

**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	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86	86	86	86			
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	79	79	79			
4	96	88	82	78	94	87	82	77	85	80	77	83	79	76	81	78	75	73	73	73	73			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68			
6	86	77	70	66	84	76	70	65	74	69	65	73	68	65	71	67	64	63	63	63	63			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	50	50	50			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47	47	47	47			

**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°			



TEST NUMBER: P247617

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.0	8.3
10°-20°	1472.3	23.1
20°-30°	2074.6	32.5
30°-40°	1678.4	26.3
40°-50°	532.8	8.3
50°-60°	85.2	1.3
60°-70°	5.8	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4078.8	63.9
0°-40°	5757.2	90.2
0°-60°	6375.3	99.9
0°-90°	6381.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6381.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5660	5660	5660	5660	5660	
5°	5522	5548	5620	5701	5737	520
15°	5124	5144	5216	5315	5369	1443
25°	4536	4544	4568	4594	4609	2071
35°	2923	2843	2723	2625	2587	1733
45°	474	512	610	697	740	442
55°	75	76	81	84	83	78
65°	2	4	4	4	4	6
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P247617

CATALOG NUMBER: LD8B120D010 ER8B120927 8LBW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5659.9	5659.9	5659.9	5659.9	5659.9
2.5°	5627.5	5633.3	5647.2	5673.7	5681.7
5°	5522.5	5547.9	5619.5	5701.4	5737.2
7.5°	5409.4	5442.9	5547.9	5686.3	5751.0
10°	5305.6	5341.4	5453.3	5600.9	5685.2
12.5°	5217.9	5245.5	5336.8	5469.4	5547.9
15°	5124.4	5144.1	5215.6	5314.8	5369.1
17.5°	5012.4	5029.8	5077.1	5154.4	5195.9
20°	4883.3	4887.9	4928.3	4977.9	5013.7
22.5°	4722.9	4727.5	4750.5	4797.9	4822.1
25°	4535.9	4544.0	4568.3	4593.6	4608.7
27.5°	4306.3	4309.8	4298.3	4277.5	4282.1
30°	3987.8	3975.2	3910.5	3821.6	3795.2
32.5°	3570.1	3485.9	3346.3	3221.7	3170.9
35°	2922.8	2843.2	2723.2	2625.1	2587.0
37.5°	2100.0	2105.9	2097.8	2075.8	2080.5
40°	1328.2	1381.2	1506.9	1589.0	1614.3
42.5°	797.3	855.0	993.5	1104.3	1140.1
45°	474.3	512.3	610.4	696.9	739.7
47.5°	304.7	323.1	371.6	422.3	446.5
50°	201.9	211.2	230.7	253.8	264.3
52.5°	129.3	132.8	142.0	150.0	158.1
55°	75.0	76.2	80.8	84.3	83.0
57.5°	39.3	39.3	39.3	39.3	39.3
60°	21.9	20.8	20.8	20.8	19.6
62.5°	10.4	10.4	10.4	9.2	9.2
65°	2.4	3.5	3.5	3.5	3.5
67.5°	0.0	0.0	0.0	0.0	1.1
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)