

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: P247615

Luminaire Tested: **LD8B90D010 ER8B90927 8LBW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247615  
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: LD8B90D010 ER8B90927 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: 4879.2 lumens  
Efficiency: N/A  
Efficacy: 56.7 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

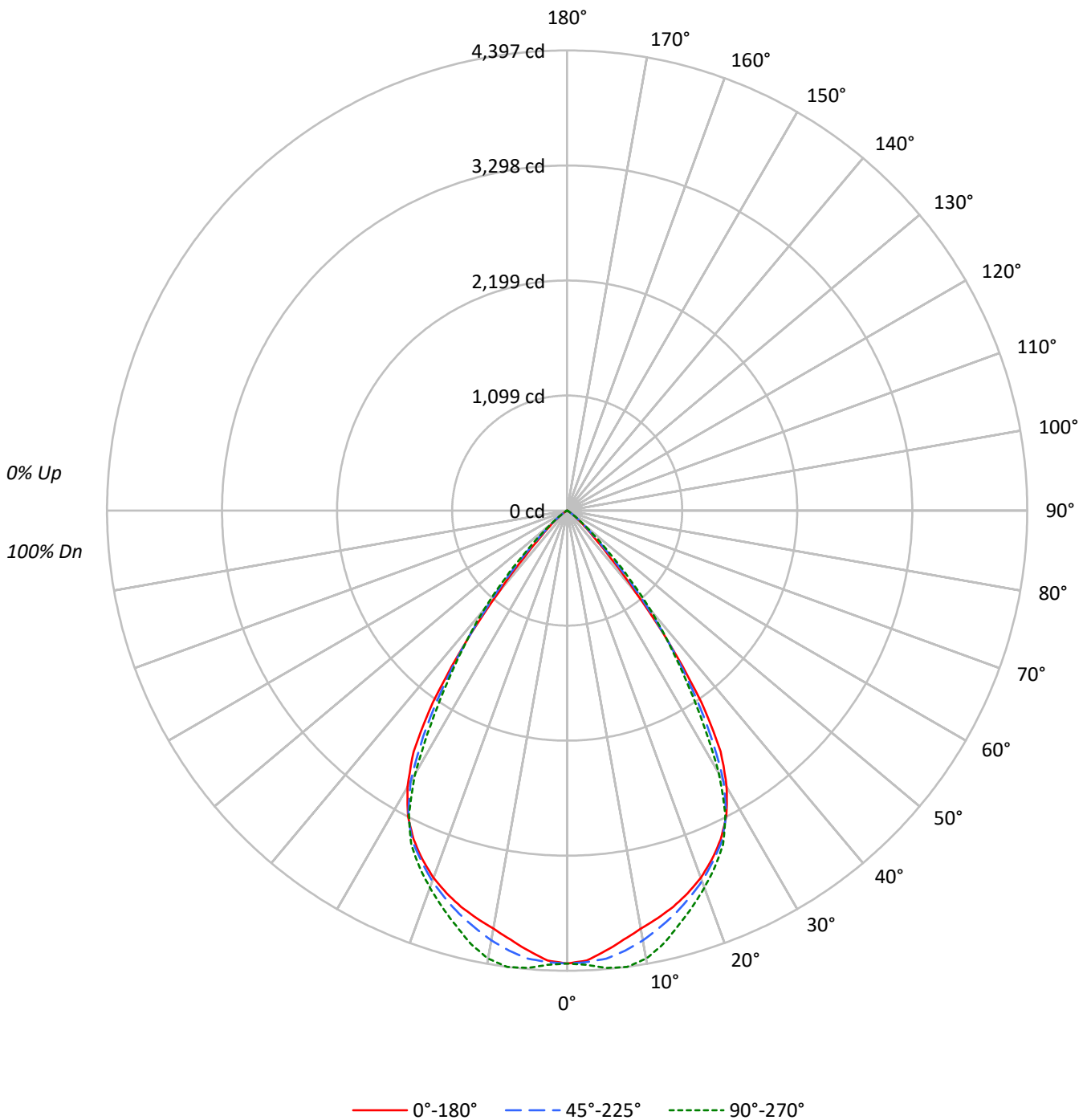
Input Watts (W): 86.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				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	100		
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	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	86		
3	102	95	90	86	100	93	89	85	91	87	84	88	85	82	86	83	81	79	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	73		
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	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	63		
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	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	54		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50	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	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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	406.8	8.3
10°-20°	1125.8	23.1
20°-30°	1586.3	32.5
30°-40°	1283.4	26.3
40°-50°	407.4	8.3
50°-60°	65.2	1.3
60°-70°	4.4	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°	3118.8	63.9
0°-40°	4402.2	90.2
0°-60°	4874.7	99.9
0°-90°	4879.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4879.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4328	4328	4328	4328	4328	
5°	4223	4242	4297	4360	4387	398
15°	3918	3933	3988	4064	4105	1103
25°	3468	3474	3493	3512	3524	1584
35°	2235	2174	2082	2007	1978	1325
45°	363	392	467	533	566	338
55°	57	58	62	64	64	60
65°	2	3	3	3	3	4
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4327.7	4327.7	4327.7	4327.7	4327.7
2.5°	4303.0	4307.4	4318.0	4338.2	4344.4
5°	4222.7	4242.2	4296.8	4359.5	4386.8
7.5°	4136.2	4161.8	4242.2	4348.0	4397.4
10°	4056.9	4084.2	4169.8	4282.7	4347.1
12.5°	3989.8	4011.0	4080.6	4182.1	4242.2
15°	3918.3	3933.3	3988.0	4063.8	4105.3
17.5°	3832.8	3845.9	3882.2	3941.2	3973.0
20°	3733.9	3737.5	3768.3	3806.2	3833.6
22.5°	3611.2	3614.7	3632.4	3668.6	3687.2
25°	3468.4	3474.4	3493.0	3512.5	3524.0
27.5°	3292.8	3295.4	3286.6	3270.7	3274.2
30°	3049.2	3039.5	2990.1	2922.2	2901.9
32.5°	2729.8	2665.5	2558.7	2463.4	2424.6
35°	2234.9	2174.0	2082.3	2007.2	1978.1
37.5°	1605.8	1610.2	1604.0	1587.3	1590.8
40°	1015.5	1056.1	1152.3	1214.9	1234.4
42.5°	609.6	653.7	759.7	844.3	871.8
45°	362.6	391.7	466.8	532.9	565.5
47.5°	232.9	247.0	284.1	322.9	341.4
50°	154.4	161.4	176.5	194.1	202.0
52.5°	98.8	101.5	108.6	114.8	120.8
55°	57.4	58.3	61.8	64.5	63.6
57.5°	30.0	30.0	30.0	30.0	30.0
60°	16.8	15.9	15.9	15.9	15.0
62.5°	8.0	8.0	8.0	7.1	7.1
65°	1.8	2.7	2.7	2.7	2.7
67.5°	0.0	0.0	0.0	0.0	0.9
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)