

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: P248193

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759727 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11415.0 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

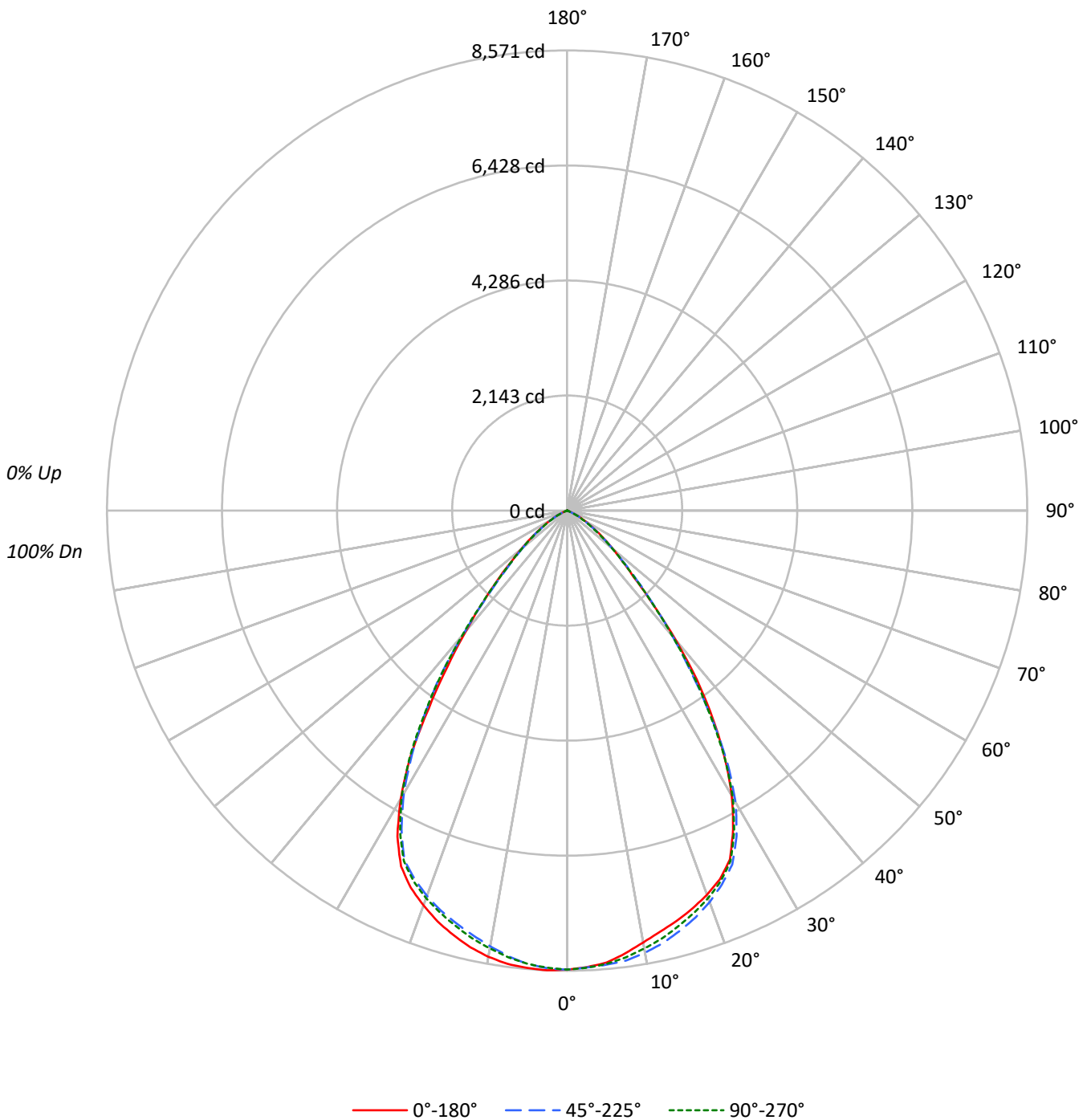
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	80	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
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°	803.9	7.0
10°-20°	2264.6	19.8
20°-30°	3265.6	28.6
30°-40°	2868.0	25.1
40°-50°	1450.2	12.7
50°-60°	593.6	5.2
60°-70°	156.0	1.4
70°-80°	11.0	0.1
80°-90°	2.0	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°	6334.2	55.5
0°-40°	9202.2	80.6
0°-60°	11246.0	98.5
0°-90°	11415.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11415.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8550	8550	8550	8550	8550	
5°	8451	8490	8475	8475	8552	797
15°	7907	8103	8014	7962	8186	2231
25°	7172	7275	7201	7175	7316	3240
35°	4728	4647	4633	4614	4496	2915
45°	1765	1847	1795	1749	1831	1456
55°	671	645	624	623	644	620
65°	169	150	134	133	145	173
75°	5	3	9	3	6	12
85°	2	2	2	1	2	3
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8549.7	8549.7	8549.7	8549.7	8549.7	8549.7	8549.7	8549.7	8549.7
2.5°	8510.4	8552.0	8515.1	8537.1	8522.2	8497.8	8531.6	8515.9	8570.9
5°	8451.4	8501.7	8489.9	8517.4	8475.0	8430.2	8475.0	8478.9	8552.0
7.5°	8317.0	8403.5	8453.0	8486.0	8392.4	8319.3	8372.8	8420.7	8515.1
10°	8166.8	8271.4	8361.0	8412.1	8282.4	8175.5	8239.2	8320.9	8439.6
12.5°	8028.5	8144.0	8250.2	8299.7	8162.9	8042.6	8103.2	8204.6	8331.9
15°	7907.4	8002.5	8103.2	8154.3	8013.5	7899.6	7961.7	8055.2	8185.7
17.5°	7769.1	7858.7	7947.5	7987.6	7857.1	7758.1	7814.7	7894.8	8024.5
20°	7614.2	7691.2	7758.8	7806.0	7681.0	7586.7	7637.8	7712.5	7824.9
22.5°	7432.6	7490.8	7534.8	7577.3	7475.8	7382.3	7426.3	7485.3	7604.0
25°	7171.6	7230.6	7274.6	7322.6	7200.7	7120.5	7174.8	7199.9	7315.5
27.5°	6693.7	6768.4	6834.4	6876.8	6737.7	6668.5	6682.7	6724.3	6847.0
30°	6134.0	6170.1	6270.8	6283.3	6165.4	6045.1	6083.7	6127.7	6200.0
32.5°	5468.9	5489.4	5547.5	5553.8	5465.8	5373.0	5373.8	5354.2	5427.3
35°	4728.4	4682.0	4647.4	4671.0	4633.3	4649.8	4613.6	4523.2	4496.5
37.5°	3963.5	3933.7	3781.9	3770.2	3858.2	3911.7	3876.3	3675.0	3660.9
40°	3135.8	3102.0	3045.4	3036.7	3048.5	3079.2	3013.9	2954.2	2936.1
42.5°	2346.5	2364.6	2382.7	2399.2	2365.4	2299.4	2296.2	2285.2	2327.7
45°	1764.8	1803.3	1847.3	1869.4	1794.7	1743.6	1749.1	1773.5	1830.8
47.5°	1395.3	1403.2	1419.7	1438.6	1394.5	1329.3	1346.6	1385.9	1411.1
50°	1108.4	1116.3	1111.6	1109.2	1088.0	1048.7	1073.0	1102.1	1110.8
52.5°	874.1	863.9	855.3	849.8	836.4	820.7	825.4	849.8	863.1
55°	671.3	663.5	644.6	636.7	624.2	620.2	622.6	641.5	643.8
57.5°	504.7	493.7	474.8	459.9	460.7	454.4	457.5	470.9	478.0
60°	379.7	372.6	339.6	342.0	330.9	329.4	336.5	344.3	347.5
62.5°	262.6	264.9	239.8	236.6	231.1	231.9	236.6	242.9	243.7
65°	169.0	158.8	150.1	143.9	134.4	129.7	132.9	150.1	144.6
67.5°	66.0	70.0	56.6	66.0	61.3	51.9	59.7	66.8	63.7
70°	36.2	36.9	30.7	29.1	30.7	28.3	32.2	36.2	27.5
72.5°	22.8	22.8	16.5	16.5	21.2	14.1	16.5	25.9	20.4
75°	4.7	5.5	3.1	1.6	9.4	4.7	3.1	9.4	5.5
77.5°	0.0	5.5	0.0	0.0	0.0	0.0	1.6	1.6	1.6
80°	0.0	0.0	0.0	2.4	0.0	0.0	0.0	1.6	1.6
82.5°	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0
85°	1.6	6.3	1.6	0.0	1.6	1.6	0.8	4.7	1.6
87.5°	10.2	4.7	0.8	4.7	3.9	4.7	5.5	4.7	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)