

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 ER8B175927 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 ER8B175927 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: 12841.9 lumens  
Efficiency: N/A  
Efficacy: 72.5 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

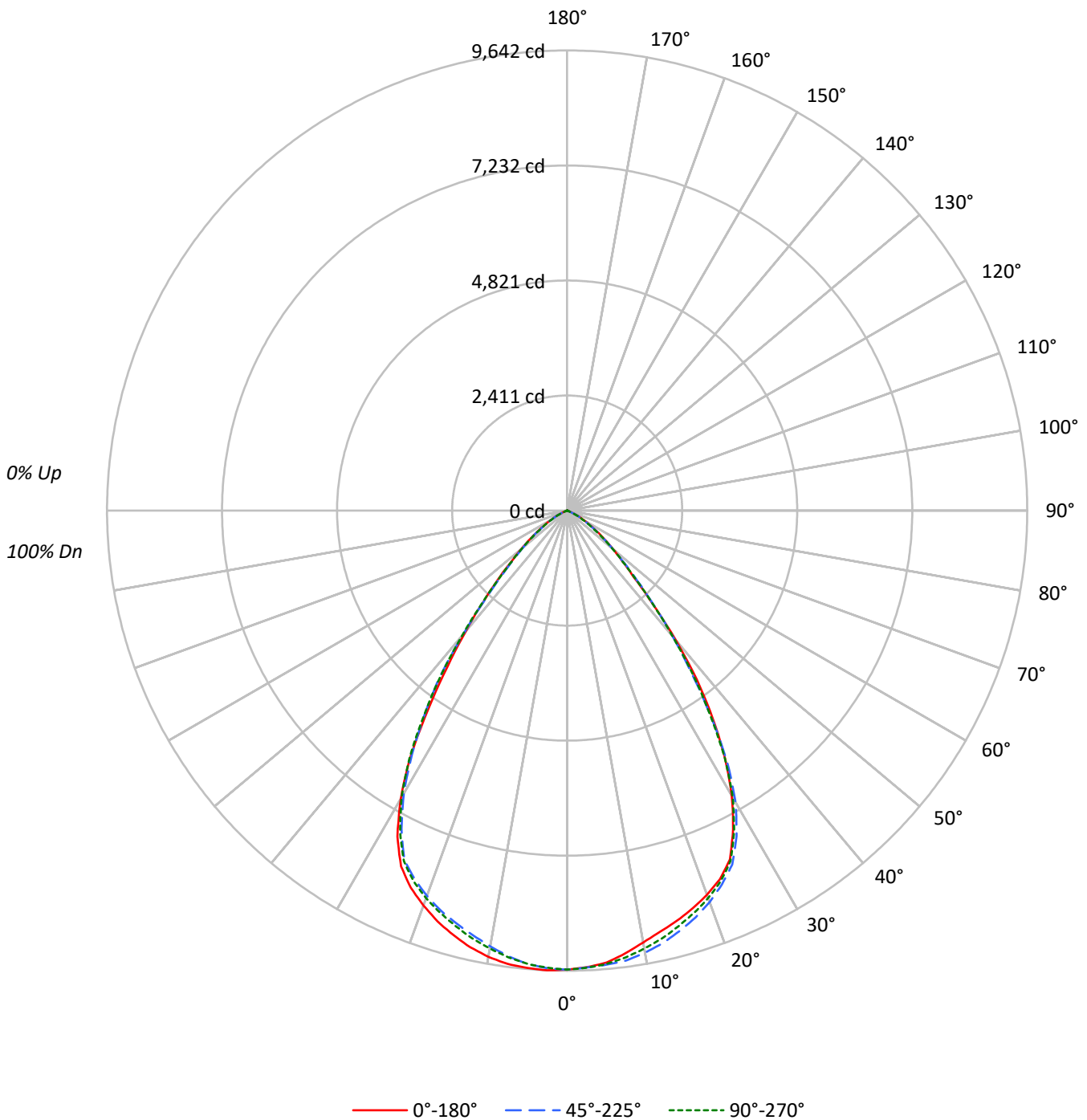
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	904.4	7.0
10°-20°	2547.7	19.8
20°-30°	3673.8	28.6
30°-40°	3226.5	25.1
40°-50°	1631.5	12.7
50°-60°	667.8	5.2
60°-70°	175.5	1.4
70°-80°	12.4	0.1
80°-90°	2.2	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°	7125.9	55.5
0°-40°	10352.4	80.6
0°-60°	12651.7	98.5
0°-90°	12841.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12841.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9618	9618	9618	9618	9618	
5°	9508	9551	9534	9534	9621	897
15°	8896	9116	9015	8957	9209	2510
25°	8068	8184	8101	8072	8230	3645
35°	5319	5228	5212	5190	5059	3279
45°	1985	2078	2019	1968	2060	1638
55°	755	725	702	700	724	698
65°	190	169	151	150	163	194
75°	5	4	11	4	6	13
85°	2	2	2	1	2	4
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°	9618.4	9618.4	9618.4	9618.4	9618.4	9618.4	9618.4	9618.4	9618.4
2.5°	9574.2	9621.0	9579.5	9604.2	9587.5	9560.0	9598.1	9580.4	9642.3
5°	9507.8	9564.4	9551.1	9582.1	9534.4	9484.0	9534.4	9538.8	9621.0
7.5°	9356.6	9453.9	9509.6	9546.8	9441.4	9359.2	9419.4	9473.3	9579.5
10°	9187.6	9305.3	9406.1	9463.6	9317.7	9197.4	9269.1	9361.0	9494.6
12.5°	9032.1	9162.0	9281.5	9337.2	9183.3	9047.9	9116.1	9230.2	9373.4
15°	8895.8	9002.8	9116.1	9173.6	9015.2	8887.1	8956.9	9062.1	9208.9
17.5°	8740.2	8841.0	8940.9	8986.1	8839.2	8727.9	8791.5	8881.6	9027.6
20°	8566.0	8652.6	8728.6	8781.8	8641.1	8535.0	8592.5	8676.6	8803.0
22.5°	8361.7	8427.2	8476.6	8524.5	8410.3	8305.1	8354.6	8421.0	8554.5
25°	8068.0	8134.4	8183.9	8237.9	8100.8	8010.6	8071.6	8099.9	8229.9
27.5°	7530.4	7614.4	7688.7	7736.4	7579.9	7502.1	7518.0	7564.8	7702.9
30°	6900.8	6941.4	7054.6	7068.7	6936.1	6800.7	6844.2	6893.7	6975.0
32.5°	6152.5	6175.6	6240.9	6248.0	6149.0	6044.6	6045.5	6023.5	6105.7
35°	5319.4	5267.2	5228.3	5254.9	5212.5	5231.0	5190.3	5088.6	5058.6
37.5°	4458.9	4425.4	4254.6	4241.5	4340.5	4400.7	4360.8	4134.4	4118.5
40°	3527.8	3489.8	3426.1	3416.3	3429.6	3464.1	3390.6	3323.5	3303.1
42.5°	2639.8	2660.2	2680.5	2699.1	2661.1	2586.8	2583.2	2570.8	2618.7
45°	1985.4	2028.7	2078.2	2103.1	2019.0	1961.6	1967.7	1995.2	2059.6
47.5°	1569.7	1578.6	1597.2	1618.4	1568.8	1495.5	1514.9	1559.1	1587.5
50°	1247.0	1255.8	1250.6	1247.9	1224.0	1179.8	1207.1	1239.9	1249.6
52.5°	983.4	971.9	962.2	956.0	941.0	923.3	928.6	956.0	971.0
55°	755.2	746.4	725.2	716.3	702.2	697.7	700.4	721.7	724.3
57.5°	567.8	555.4	534.2	517.4	518.3	511.2	514.7	529.8	537.8
60°	427.2	419.2	382.0	384.8	372.3	370.6	378.6	387.3	390.9
62.5°	295.4	298.0	269.8	266.2	260.0	260.9	266.2	273.3	274.2
65°	190.1	178.6	168.9	161.9	151.2	145.9	149.5	168.9	162.7
67.5°	74.2	78.8	63.7	74.2	69.0	58.4	67.2	75.1	71.7
70°	40.7	41.5	34.5	32.7	34.5	31.8	36.2	40.7	30.9
72.5°	25.6	25.6	18.6	18.6	23.8	15.9	18.6	29.1	23.0
75°	5.3	6.2	3.5	1.8	10.6	5.3	3.5	10.6	6.2
77.5°	0.0	6.2	0.0	0.0	0.0	0.0	1.8	1.8	1.8
80°	0.0	0.0	0.0	2.7	0.0	0.0	0.0	1.8	1.8
82.5°	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	0.0
85°	1.8	7.1	1.8	0.0	1.8	1.8	0.9	5.3	1.8
87.5°	11.5	5.3	0.9	5.3	4.4	5.3	6.2	5.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)