

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: P248157

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759727 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14205.0 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

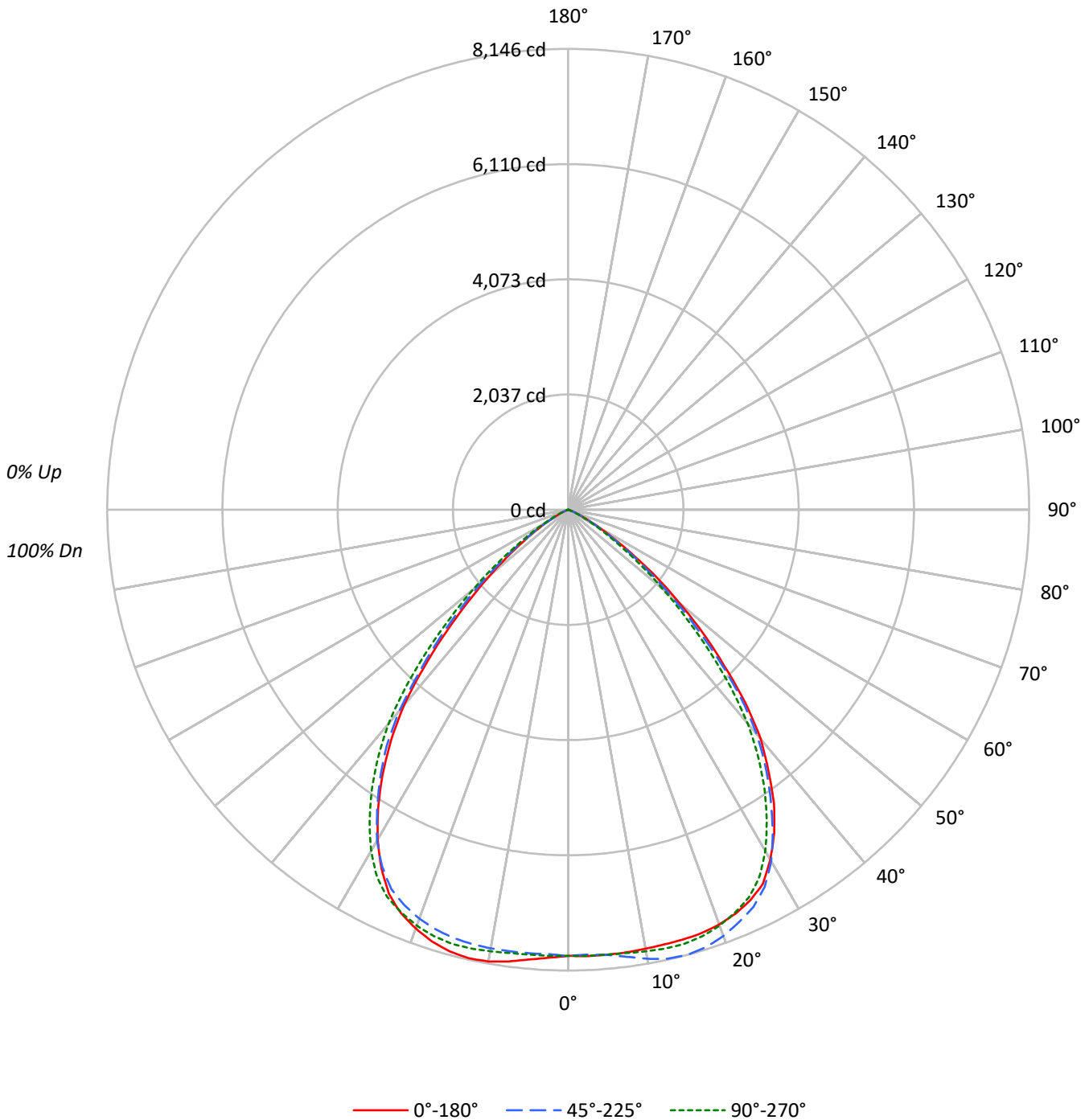
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

**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°	756.1	5.3
10°-20°	2250.5	15.8
20°-30°	3459.3	24.4
30°-40°	3739.4	26.3
40°-50°	2690.9	18.9
50°-60°	1085.8	7.6
60°-70°	208.8	1.5
70°-80°	12.4	0.1
80°-90°	1.8	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°	6466.0	45.5
0°-40°	10205.4	71.8
0°-60°	13982.1	98.4
0°-90°	14205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	7886	7886	7886	7886	7886	
5°	7898	7900	7892	7870	7980	753
15°	7864	8146	7943	7838	8083	2226
25°	7617	7748	7560	7397	7494	3495
35°	6338	6237	6055	5794	5724	3924
45°	3897	3782	3508	3221	3041	3011
55°	1420	1314	1156	998	913	1324
65°	230	234	172	134	132	269
75°	12	9	7	7	7	20
85°	2	2	1	1	1	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°	7886.1	7886.1	7886.1	7886.1	7886.1	7886.1	7886.1	7886.1	7886.1
2.5°	7897.9	7886.9	7871.1	7870.4	7895.5	7881.4	7864.1	7882.1	7927.0
5°	7897.9	7899.4	7900.2	7893.2	7892.4	7868.8	7869.6	7918.3	7979.6
7.5°	7892.4	7923.0	7971.0	7960.0	7904.9	7853.1	7874.3	7972.5	8054.3
10°	7879.8	7951.3	8061.4	8044.9	7927.0	7838.9	7872.7	8009.5	8108.5
12.5°	7868.8	7967.0	8129.8	8110.1	7945.0	7829.5	7863.3	8014.2	8121.1
15°	7864.1	7970.2	8145.5	8121.1	7942.7	7810.6	7838.1	7979.6	8082.6
17.5°	7846.8	7945.8	8106.2	8076.3	7901.8	7766.6	7778.4	7907.3	8004.8
20°	7802.8	7887.7	8018.9	7978.1	7823.2	7687.2	7691.1	7788.6	7876.6
22.5°	7728.1	7794.9	7890.0	7850.7	7706.1	7582.6	7566.1	7647.9	7721.8
25°	7617.2	7671.5	7747.7	7705.3	7559.9	7434.1	7397.1	7449.0	7493.8
27.5°	7454.5	7473.4	7516.6	7451.4	7316.9	7193.5	7116.5	7124.4	7147.9
30°	7141.6	7172.3	7176.2	7101.6	6967.1	6824.1	6753.3	6714.0	6732.9
32.5°	6773.8	6765.1	6725.8	6635.4	6530.1	6416.1	6282.5	6237.6	6247.9
35°	6337.5	6317.0	6236.9	6150.4	6055.3	5915.3	5793.5	5727.5	5724.3
37.5°	5806.1	5778.6	5725.9	5606.4	5519.2	5401.2	5268.4	5195.3	5140.3
40°	5294.3	5251.1	5189.0	5045.9	4935.9	4771.6	4635.6	4534.2	4519.2
42.5°	4634.0	4612.8	4524.0	4380.1	4242.5	4048.4	3890.4	3805.5	3761.5
45°	3897.4	3897.4	3781.9	3655.3	3508.3	3363.7	3220.6	3094.1	3040.6
47.5°	3237.9	3156.2	3046.9	2911.7	2804.0	2701.8	2550.1	2394.4	2358.3
50°	2566.6	2514.7	2385.8	2256.9	2190.8	2093.4	1973.9	1822.9	1784.4
52.5°	1983.3	1901.6	1789.9	1694.0	1631.9	1555.7	1426.0	1323.0	1303.3
55°	1420.5	1378.8	1313.6	1235.0	1155.6	1075.4	998.3	939.4	913.4
57.5°	973.2	959.0	904.8	858.4	781.4	710.6	639.9	621.0	622.6
60°	636.7	635.9	609.2	567.6	500.7	436.3	403.3	393.8	400.1
62.5°	385.2	392.3	385.2	360.8	309.7	260.2	236.6	241.3	237.4
65°	229.5	236.6	234.3	202.8	172.2	150.9	134.4	128.1	132.1
67.5°	133.6	129.7	119.5	104.6	85.7	70.7	59.7	54.2	55.0
70°	59.0	55.8	50.3	38.5	29.1	23.6	19.7	18.1	18.9
72.5°	22.0	21.2	18.1	14.9	12.6	10.2	9.4	9.4	9.4
75°	11.8	11.0	9.4	7.9	7.1	7.1	7.1	7.1	7.1
77.5°	8.6	7.9	7.1	6.3	5.5	4.7	4.7	4.7	4.7
80°	6.3	5.5	4.7	3.9	3.9	3.1	3.1	3.1	3.1
82.5°	3.9	3.9	3.1	2.4	2.4	1.6	1.6	1.6	1.6
85°	2.4	2.4	1.6	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)