

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: P250195

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250195  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B1759727 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12714.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 lumens/watt  
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

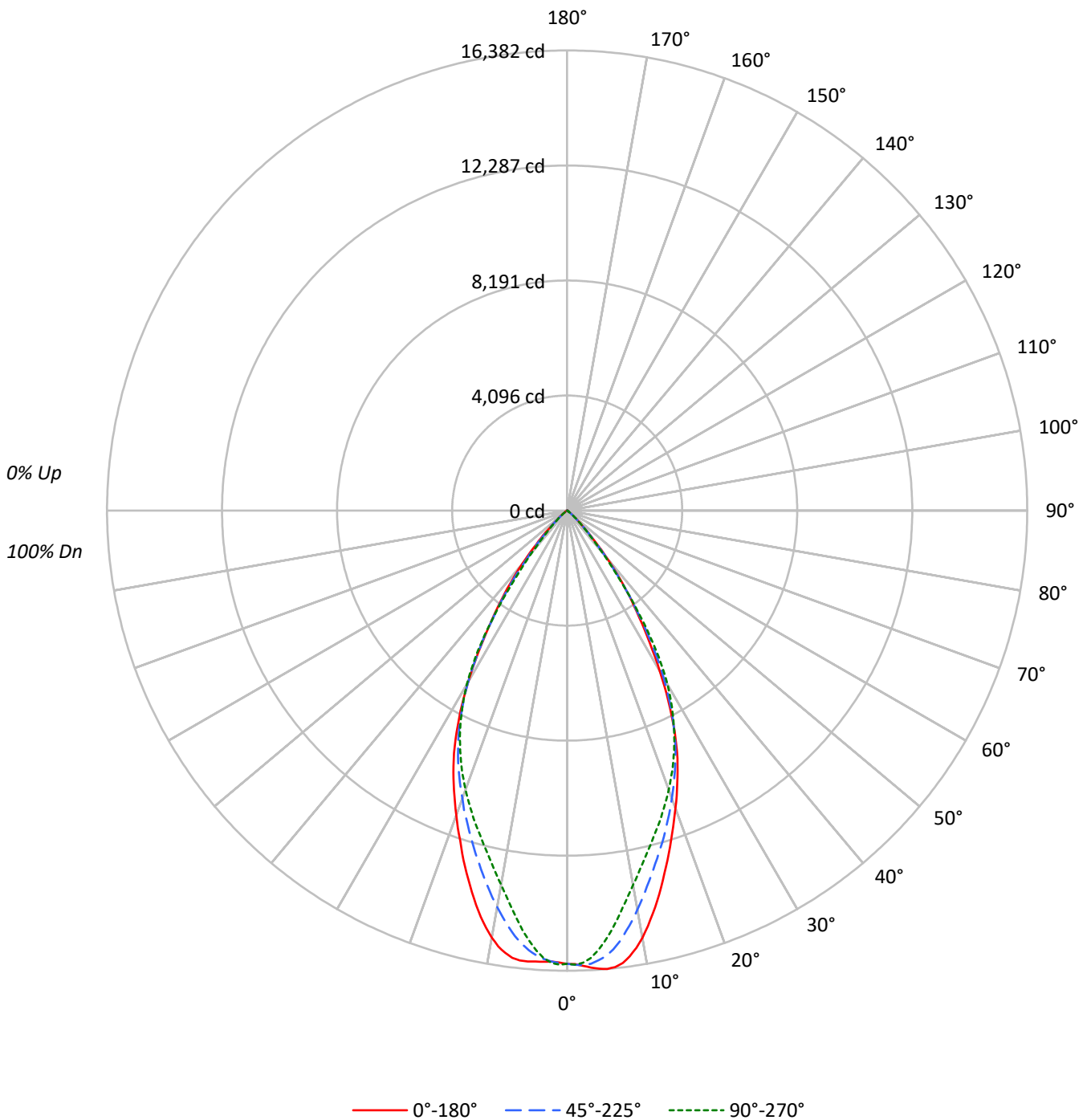
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250195

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBM0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P250195

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBM0WH

**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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

**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°			



TEST NUMBER: P250195

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBM0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1464.8	11.5
10°-20°	3542.7	27.9
20°-30°	4152.3	32.7
30°-40°	2732.0	21.5
40°-50°	712.9	5.6
50°-60°	87.7	0.7
60°-70°	18.2	0.1
70°-80°	3.4	0.0
80°-90°	0.1	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°	9159.8	72.0
0°-40°	11891.7	93.5
0°-60°	12692.3	99.8
0°-90°	12714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12714.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	16135	16135	16135	16135	16135	
5°	16382	15916	15390	15708	16116	###
15°	13373	12616	11973	12616	13601	3728
25°	9188	9097	9031	9184	9525	4142
35°	4178	4272	4417	4460	4531	2616
45°	812	765	714	828	965	728
55°	63	67	75	75	71	83
65°	24	20	20	16	16	16
75°	0	4	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P250195

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	16135.2	16135.2	16135.2	16135.2	16135.2	16135.2	16135.2	16135.2	16135.2
1°	16146.9	16170.5	16178.3	16201.9	16166.6	16143.1	16111.7	16088.1	16092.0
2°	16217.6	16229.4	16186.2	16170.5	16107.7	16088.1	16064.6	16060.6	16064.6
3°	16292.1	16268.5	16154.8	16048.9	15954.7	15942.9	15986.1	16048.9	16084.1
4°	16351.0	16288.2	16048.9	15852.7	15703.6	15691.9	15864.5	16025.3	16092.0
5°	16382.4	16268.5	15915.5	15586.0	15389.8	15464.3	15707.6	15993.9	16115.5
6°	16339.2	16170.5	15711.5	15272.2	15048.5	15146.6	15503.6	15919.4	16099.9
7°	16229.4	16013.6	15448.7	14930.8	14656.2	14809.2	15264.3	15793.9	16041.0
8°	16025.3	15766.4	15115.2	14534.6	14263.9	14436.5	14970.1	15613.4	15899.8
9°	15758.5	15472.2	14785.7	14173.7	13883.4	14087.4	14664.1	15374.1	15703.6
10°	15440.8	15134.8	14420.8	13797.1	13534.3	13726.5	14334.6	15095.6	15436.9
11°	15068.1	14773.9	14056.0	13444.1	13193.0	13381.3	14005.0	14762.2	15130.9
12°	14664.1	14393.4	13683.4	13102.7	12867.4	13047.8	13652.0	14416.9	14781.8
13°	14260.0	13989.3	13322.4	12773.2	12557.4	12730.0	13306.7	14040.3	14405.1
14°	13824.6	13577.4	12961.5	12459.3	12263.2	12427.9	12953.7	13659.8	14005.0
15°	13373.4	13177.2	12616.3	12157.2	11972.9	12129.8	12616.3	13267.4	13600.9
16°	12949.7	12769.3	12282.8	11859.1	11706.2	11831.6	12275.0	12875.2	13193.0
17°	12518.2	12353.4	11949.3	11564.9	11427.6	11549.2	11925.8	12479.0	12765.3
18°	12086.7	11949.3	11584.6	11255.0	11133.4	11243.2	11580.6	12078.8	12337.7
19°	11686.5	11561.0	11251.1	10972.6	10862.7	10960.7	11278.6	11694.4	11953.3
20°	11274.6	11172.6	10901.9	10674.4	10572.4	10662.6	10909.8	11313.9	11541.4
21°	10878.4	10788.2	10552.8	10360.5	10278.2	10352.8	10580.2	10945.1	11145.1
22°	10466.5	10415.5	10203.7	10042.8	9987.9	10034.9	10242.8	10556.7	10745.1
23°	10062.4	10015.4	9854.5	9721.1	9674.0	9721.1	9905.5	10187.9	10356.7
24°	9654.4	9603.5	9485.8	9399.4	9360.2	9399.4	9556.3	9795.6	9956.5
25°	9187.6	9179.8	9097.4	9050.3	9030.7	9073.8	9183.7	9391.6	9524.9
26°	8740.3	8716.8	8693.3	8685.4	8689.4	8712.9	8803.1	8960.1	9066.0
27°	8191.2	8226.5	8261.7	8308.9	8324.5	8344.2	8387.3	8501.0	8579.6
28°	7665.5	7732.2	7818.5	7912.6	7955.8	7955.8	7959.7	8022.4	8089.2
29°	7143.8	7214.3	7351.7	7492.9	7551.7	7543.8	7512.5	7539.9	7579.2
30°	6598.4	6688.7	6873.1	7057.5	7143.8	7112.4	7053.5	7026.1	7049.6
31°	6064.9	6155.2	6359.1	6559.2	6672.9	6637.7	6535.7	6516.1	6527.8
32°	5555.0	5645.2	5833.4	6045.3	6174.8	6127.7	6021.7	5990.4	5994.3
33°	5060.6	5131.3	5303.8	5500.0	5605.9	5594.1	5507.8	5468.7	5472.5
34°	4593.8	4652.7	4782.1	4931.2	5033.2	5029.2	4966.5	4970.4	4982.2
35°	4178.0	4209.4	4272.1	4354.5	4417.3	4452.5	4460.4	4491.8	4531.0
37.5°	3158.0	3169.7	3095.2	3012.8	2997.1	3099.2	3275.7	3428.7	3487.6
40°	2189.0	2161.6	2067.4	1922.3	1879.1	1992.9	2216.5	2432.3	2510.7
42.5°	1361.3	1349.5	1290.7	1180.8	1141.6	1208.3	1377.0	1541.8	1620.2
45°	812.1	796.3	764.9	721.8	714.0	741.4	827.7	921.9	965.1
47.5°	466.8	463.0	443.3	427.6	423.7	443.3	482.5	537.4	549.2
50°	254.9	251.1	247.2	247.2	247.2	258.9	278.6	294.2	302.1
52.5°	125.6	129.5	125.6	129.5	133.4	141.2	137.3	153.0	153.0
55°	62.8	58.8	66.7	74.6	74.6	74.6	74.6	74.6	70.6
57.5°	47.0	51.0	43.2	47.0	43.2	43.2	39.3	43.2	47.0



TEST NUMBER: P250195

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBM0WH

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	31.4	27.5	31.4	35.3	39.3	35.3	27.5	31.4	35.3
62.5°	15.6	15.6	15.6	23.5	35.3	27.5	23.5	19.6	19.6
65°	23.5	15.6	19.6	23.5	19.6	19.6	15.6	19.6	15.6
67.5°	11.8	19.6	11.8	7.9	11.8	15.6	11.8	7.9	7.9
70°	0.0	3.9	3.9	11.8	11.8	11.8	11.8	7.9	7.9
72.5°	3.9	3.9	3.9	7.9	3.9	7.9	3.9	3.9	7.9
75°	0.0	0.0	3.9	3.9	0.0	3.9	0.0	0.0	0.0
77.5°	3.9	0.0	3.9	3.9	0.0	0.0	0.0	3.9	0.0
80°	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	3.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)