

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: P247797

Luminaire Tested: **LD8B175D010 ER8B175927 8LBW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175927 8LBW0LI  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15148.1 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

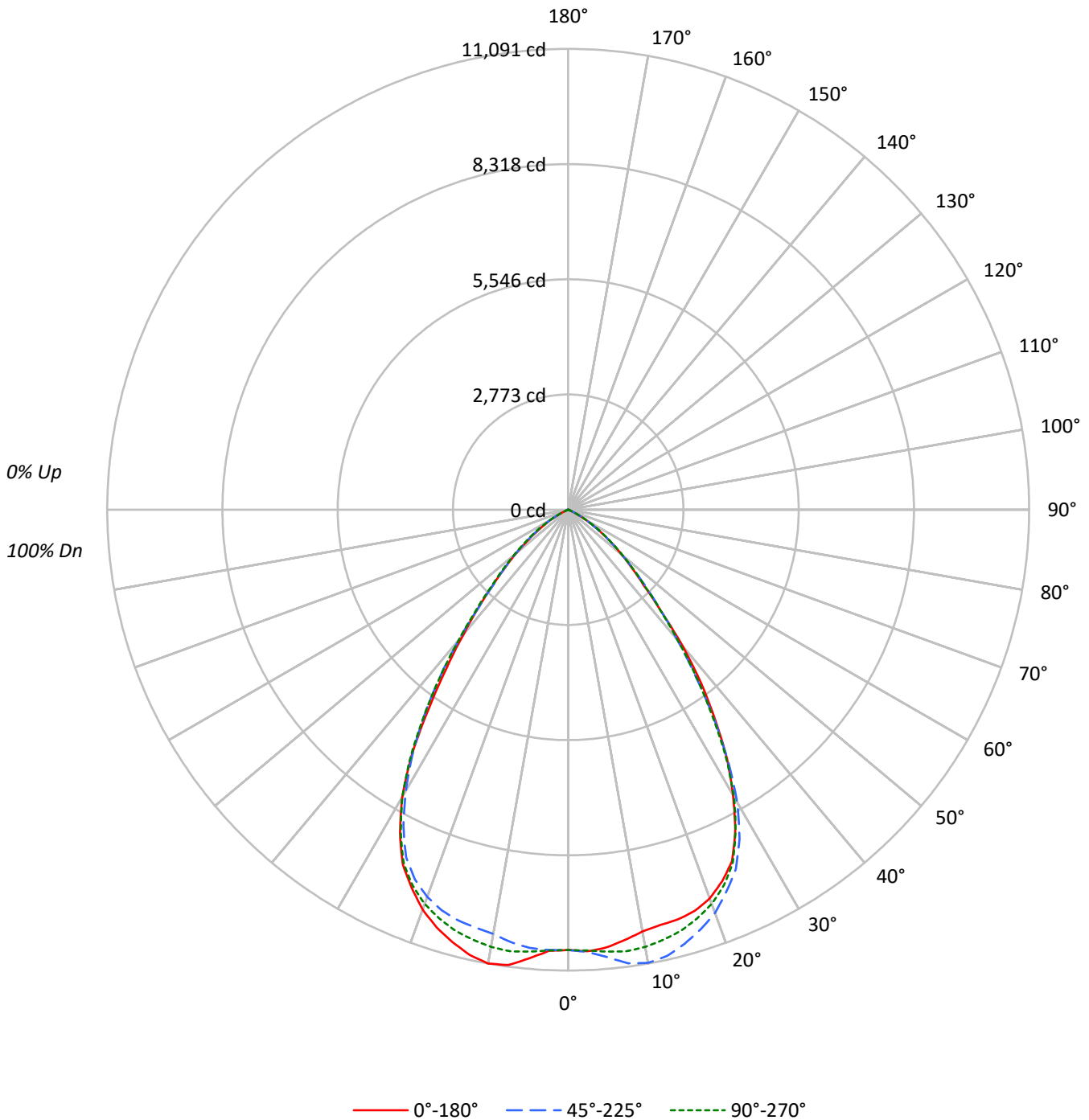
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247797

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBW0LI

### Luminous Intensity Polar Plot





TEST NUMBER: P247797

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBW0LI

**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			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83	83	83	83			
3	100	92	86	82	97	91	85	81	88	84	80	86	82	79	83	80	77	76	76	76	76			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69	69	69	69			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63	63	63	63			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57	57	57	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53	53	53	53			
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	54	50	48	48	48	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45	45	45	45			
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41	41			

**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: P247797

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBW0LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1021.0	6.7
10°-20°	2956.9	19.5
20°-30°	4241.3	28.0
30°-40°	3742.7	24.7
40°-50°	2072.2	13.7
50°-60°	913.2	6.0
60°-70°	184.5	1.2
70°-80°	13.8	0.1
80°-90°	2.5	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°	8219.1	54.3
0°-40°	11961.8	79.0
0°-60°	14947.2	98.7
0°-90°	15148.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15148.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	10594	10594	10594	10594	10594	
5°	10576	10809	10676	10589	10840	###
15°	10209	10816	10490	10234	10770	2880
25°	9331	9540	9371	9230	9420	4215
35°	6160	6072	6028	6032	5846	3821
45°	2563	2672	2626	2527	2541	2087
55°	1000	996	1029	976	935	917
65°	130	140	162	147	136	179
75°	13	13	10	11	16	13
85°	10	5	3	8	4	5
90°	0	0	0	0	0	



TEST NUMBER: P247797

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBW0LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10594.5	10594.5	10594.5	10594.5	10594.5	10594.5	10594.5	10594.5	10594.5
2.5°	10638.7	10594.5	10652.8	10616.6	10619.2	10564.4	10607.7	10649.4	10626.3
5°	10575.9	10616.6	10808.6	10803.3	10675.9	10510.5	10589.2	10778.4	10840.4
7.5°	10446.0	10592.8	11009.2	11047.3	10720.1	10371.6	10499.8	10894.3	11051.7
10°	10304.4	10515.8	11075.6	11149.9	10683.8	10224.9	10369.9	10866.9	11090.6
12.5°	10236.4	10440.7	10998.7	11070.3	10600.6	10154.1	10300.9	10762.5	10970.3
15°	10208.9	10362.8	10816.4	10881.9	10490.2	10114.3	10233.7	10611.3	10770.5
17.5°	10125.8	10231.9	10591.0	10632.5	10315.0	10017.0	10110.7	10399.9	10538.8
20°	9956.9	10027.7	10329.2	10351.4	10095.8	9842.8	9915.3	10143.4	10238.1
22.5°	9678.4	9725.2	9948.0	9956.0	9788.8	9569.6	9629.7	9808.3	9843.6
25°	9330.8	9335.1	9540.3	9502.3	9370.6	9167.2	9229.9	9382.9	9420.1
27.5°	8705.6	8720.6	8928.3	8877.9	8722.4	8545.5	8584.4	8724.2	8761.3
30°	7930.0	8013.9	8134.2	8109.4	7975.9	7798.2	7806.2	7943.2	7983.0
32.5°	7114.6	7089.9	7151.7	7133.2	7064.2	6923.6	6970.4	7005.8	7015.5
35°	6160.4	6140.0	6072.0	5986.1	6027.8	6082.5	6032.1	5954.3	5845.5
37.5°	5243.3	5129.2	4996.6	4907.2	5055.0	5112.4	5063.0	4894.0	4806.4
40°	4270.5	4150.2	4078.6	4056.5	4100.7	4143.2	4087.5	4005.2	3918.6
42.5°	3293.3	3292.4	3310.1	3305.7	3275.7	3214.6	3170.4	3205.8	3191.6
45°	2562.9	2602.7	2671.6	2683.1	2625.6	2536.3	2527.4	2561.1	2540.7
47.5°	2086.2	2100.4	2125.1	2160.5	2127.7	2082.6	2059.6	2070.2	2051.7
50°	1682.0	1685.6	1697.1	1723.6	1711.2	1680.3	1658.1	1644.9	1637.8
52.5°	1321.2	1313.2	1322.1	1331.0	1347.8	1327.4	1308.8	1280.6	1258.4
55°	1000.2	994.0	995.7	1002.8	1029.4	1006.4	976.3	957.7	934.8
57.5°	726.1	705.7	710.1	734.1	758.8	749.0	722.5	692.4	664.2
60°	489.0	484.6	483.8	509.4	528.0	524.5	494.3	472.3	462.5
62.5°	289.2	286.5	293.6	305.1	327.3	311.3	290.9	279.4	276.0
65°	130.0	136.2	139.7	148.6	161.9	158.3	146.8	134.4	136.2
67.5°	56.6	43.3	48.6	54.8	51.3	54.0	47.7	50.4	48.6
70°	27.4	29.1	27.4	34.5	31.8	33.6	27.4	32.7	25.6
72.5°	19.5	16.8	21.3	24.8	21.3	24.8	22.2	16.8	13.3
75°	13.3	8.0	13.3	8.0	9.7	14.2	10.6	14.2	15.9
77.5°	1.8	6.2	2.7	3.5	1.8	4.4	4.4	2.7	8.0
80°	1.8	2.7	1.8	3.5	5.3	0.9	3.5	8.0	0.0
82.5°	6.2	0.0	0.9	0.0	0.9	1.8	0.0	1.8	0.0
85°	9.7	2.7	5.3	12.4	2.7	5.3	8.0	3.5	3.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	0.0	2.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)