

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: P247977

Luminaire Tested: **LD8B175D010 ER8B175927 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175927 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15590.3 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

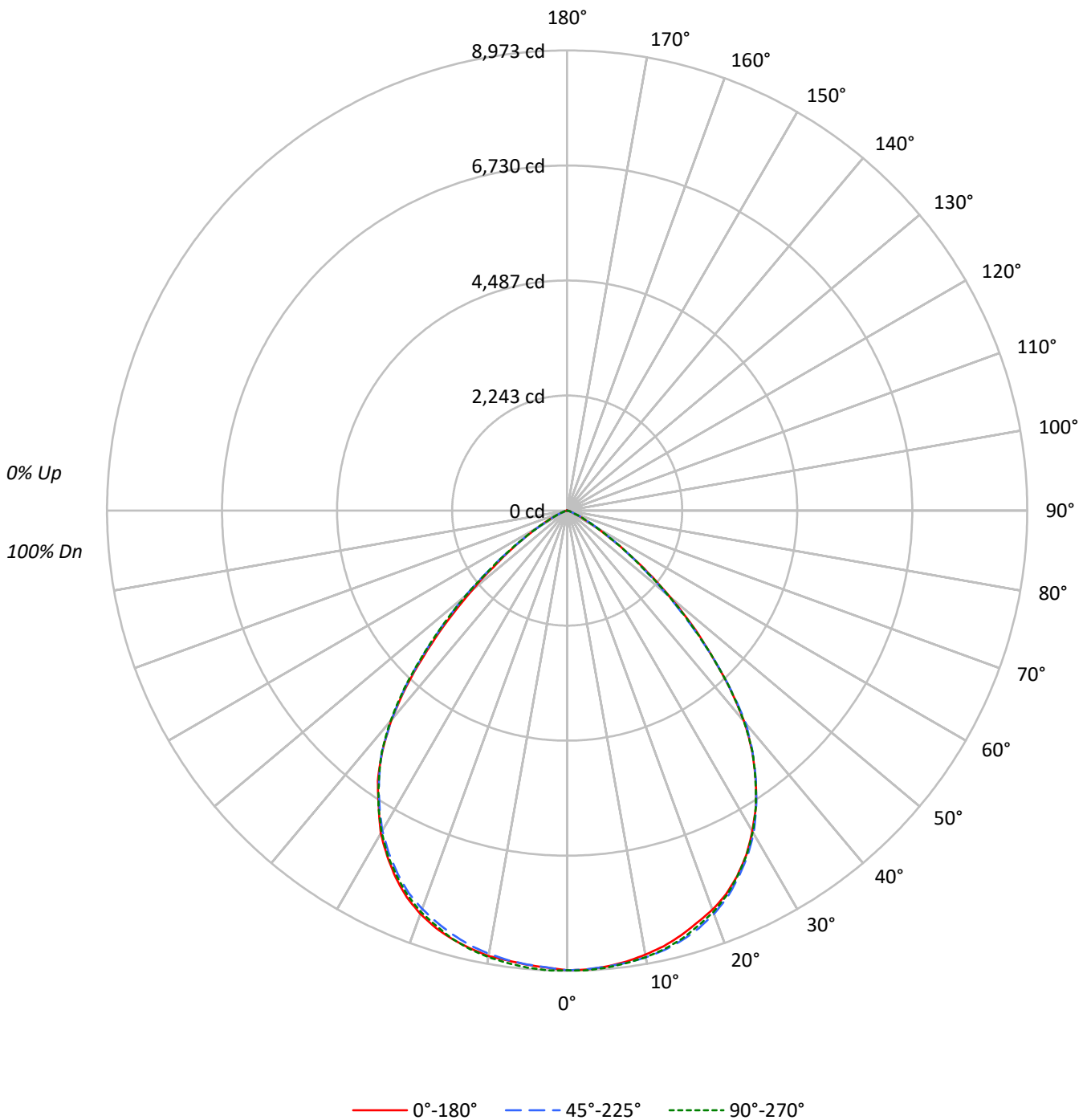
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P247977

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBS0H

### Luminous Intensity Polar Plot





TEST NUMBER: P247977

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBS0H

**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	101	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	55	50	60	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36

**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: P247977

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBS0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	848.7	5.4
10°-20°	2434.5	15.6
20°-30°	3616.8	23.2
30°-40°	3985.8	25.6
40°-50°	3035.8	19.5
50°-60°	1308.7	8.4
60°-70°	300.6	1.9
70°-80°	49.9	0.3
80°-90°	9.4	0.1
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°	6900.0	44.3
0°-40°	10885.8	69.8
0°-60°	15230.3	97.7
0°-90°	15590.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15590.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8964	8964	8964	8964	8964	
5°	8924	8923	8945	8885	8891	848
15°	8576	8672	8645	8568	8651	2419
25°	7853	7897	7862	7816	7906	3604
35°	6411	6415	6400	6394	6437	3980
45°	3963	3955	3962	3941	3862	3057
55°	1424	1423	1413	1422	1349	1328
65°	263	288	273	272	278	294
75°	54	54	54	55	47	50
85°	8	5	5	16	12	8
90°	0	0	0	0	0	



TEST NUMBER: P247977

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBS0H

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	8964.4	8964.4	8964.4	8964.4	8964.4	8964.4	8964.4	8964.4	8964.4
2.5°	8954.7	8955.6	8949.4	8962.6	8973.3	8938.8	8918.4	8964.4	8920.2
5°	8923.7	8929.9	8922.8	8939.7	8945.0	8916.6	8884.8	8934.4	8891.0
7.5°	8870.7	8883.1	8893.7	8913.2	8899.0	8863.6	8842.4	8900.8	8847.7
10°	8791.1	8822.0	8845.1	8874.2	8839.7	8801.7	8776.0	8855.7	8820.3
12.5°	8701.8	8737.2	8776.0	8811.4	8759.2	8703.6	8690.3	8775.2	8743.4
15°	8576.2	8608.9	8671.7	8705.4	8645.2	8581.5	8568.2	8676.1	8651.4
17.5°	8428.5	8486.0	8539.1	8565.5	8489.5	8434.7	8427.6	8539.1	8529.3
20°	8282.6	8313.5	8368.3	8403.8	8331.2	8265.7	8263.1	8378.1	8368.3
22.5°	8097.8	8125.1	8161.4	8194.2	8126.0	8071.2	8074.7	8169.3	8167.6
25°	7852.7	7871.3	7896.9	7933.2	7861.6	7822.7	7815.6	7916.4	7905.8
27.5°	7567.1	7579.5	7608.6	7639.5	7577.7	7543.2	7530.8	7631.7	7596.2
30°	7219.5	7247.8	7268.2	7281.4	7235.4	7214.2	7205.3	7284.9	7268.2
32.5°	6850.7	6860.4	6861.3	6894.0	6845.4	6815.4	6815.4	6879.0	6841.0
35°	6411.2	6409.3	6414.6	6450.1	6399.7	6410.2	6394.3	6444.8	6436.8
37.5°	5929.1	5937.1	5938.9	5967.1	5938.9	5946.0	5939.8	5947.7	5922.0
40°	5375.5	5410.0	5421.5	5416.2	5361.3	5342.7	5326.9	5356.0	5323.3
42.5°	4688.3	4704.2	4706.0	4709.5	4694.5	4691.8	4672.3	4684.7	4633.4
45°	3963.0	3970.1	3955.2	3952.5	3962.1	3977.2	3941.0	3912.6	3862.2
47.5°	3300.6	3275.9	3207.8	3232.6	3243.2	3281.2	3242.2	3166.2	3124.7
50°	2603.7	2578.0	2525.8	2537.4	2579.0	2636.4	2591.3	2486.1	2430.3
52.5°	1989.0	1959.9	1901.5	1912.2	1924.5	1967.8	1944.0	1872.3	1818.3
55°	1423.9	1403.6	1423.0	1407.1	1413.3	1454.9	1422.1	1362.9	1348.8
57.5°	962.2	973.7	989.7	992.4	980.0	967.5	963.1	940.2	952.5
60°	637.6	646.5	673.1	681.0	662.4	635.8	641.2	641.2	652.7
62.5°	412.1	420.1	451.0	456.4	429.9	422.8	422.8	420.1	441.3
65°	262.7	278.6	288.3	274.2	273.3	263.6	271.5	271.5	277.8
67.5°	157.4	143.3	153.0	159.2	153.0	145.0	143.3	144.1	153.0
70°	91.1	87.5	93.7	90.2	93.7	81.3	91.1	86.6	89.3
72.5°	58.4	57.5	57.5	61.0	57.5	55.7	59.3	51.3	56.6
75°	54.0	54.0	54.0	46.9	54.0	52.2	54.8	41.5	46.9
77.5°	21.3	24.8	30.0	29.1	29.1	27.4	24.8	21.3	32.7
80°	19.5	17.7	23.8	28.4	17.7	21.3	23.8	15.1	16.0
82.5°	9.7	8.9	11.5	11.5	11.5	6.2	16.0	9.7	8.0
85°	8.0	3.5	5.3	5.3	5.3	7.1	16.0	4.4	11.5
87.5°	1.8	2.7	4.4	4.4	5.3	8.9	16.0	3.5	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)