

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: P249873

Luminaire Tested: **LD8B175D010 ER8B175827 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175827 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16697.9 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

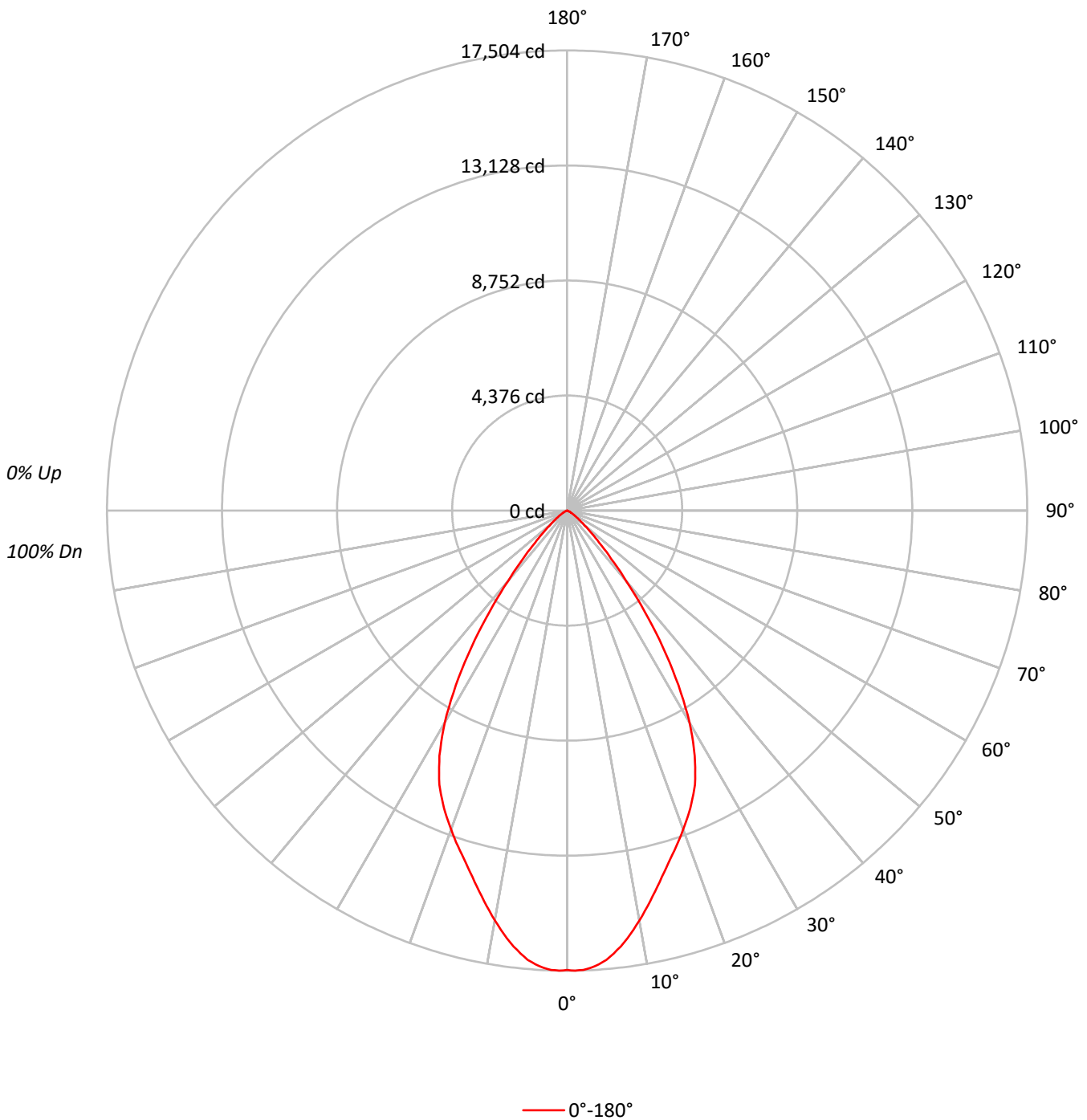
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249873

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBM0H

### Luminous Intensity Polar Plot





TEST NUMBER: P249873

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBM0H

**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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	538942
5°	531005
10°	495563
15°	454874
20°	423652
25°	391417
30°	331926
35°	238781
40°	140663
45°	75173
50°	39223
55°	22117
60°	12205
65°	7216
70°	3291
75°	1859
80°	923
85°	0



TEST NUMBER: P249873

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBM0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1593.4	9.5
10°-20°	4008.9	24.0
20°-30°	5204.4	31.2
30°-40°	3928.1	23.5
40°-50°	1437.3	8.6
50°-60°	401.8	2.4
60°-70°	105.6	0.6
70°-80°	17.8	0.1
80°-90°	0.7	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°	10806.6	64.7
0°-40°	14734.8	88.2
0°-60°	16573.9	99.3
0°-90°	16697.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16697.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	17478	
5°	17155	###
15°	14249	4009
25°	11504	5204
35°	6343	3928
45°	1724	1437
55°	411	402
65°	99	106
75°	16	18
85°	0	1
90°	0	



TEST NUMBER: P249873

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBM0H

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	17477.5
1°	17503.5
2°	17482.7
3°	17415.0
4°	17300.4
5°	17154.6
6°	16941.0
7°	16706.7
8°	16435.9
9°	16139.0
10°	15826.6
11°	15514.1
12°	15191.2
13°	14863.1
14°	14550.7
15°	14248.6
16°	13962.2
17°	13686.2
18°	13436.2
19°	13175.8
20°	12910.2
22.5°	12248.8
25°	11504.1
27.5°	10519.8
30°	9322.0
32.5°	7879.4
35°	6343.1
37.5°	4843.3
40°	3494.4
42.5°	2473.7
45°	1723.8
47.5°	1213.4
50°	817.6
52.5°	598.9
55°	411.4
57.5°	296.8
60°	197.9
62.5°	145.8
65°	98.9
67.5°	67.7
70°	36.5
72.5°	26.0
75°	15.6
77.5°	5.2
80°	5.2



TEST NUMBER: P249873

CATALOG NUMBER: LD8B175D010 ER8B175827 8LBM0H

**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)