

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: P249852

Luminaire Tested: **LD8B175D010 ER8B175950 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14837.9 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

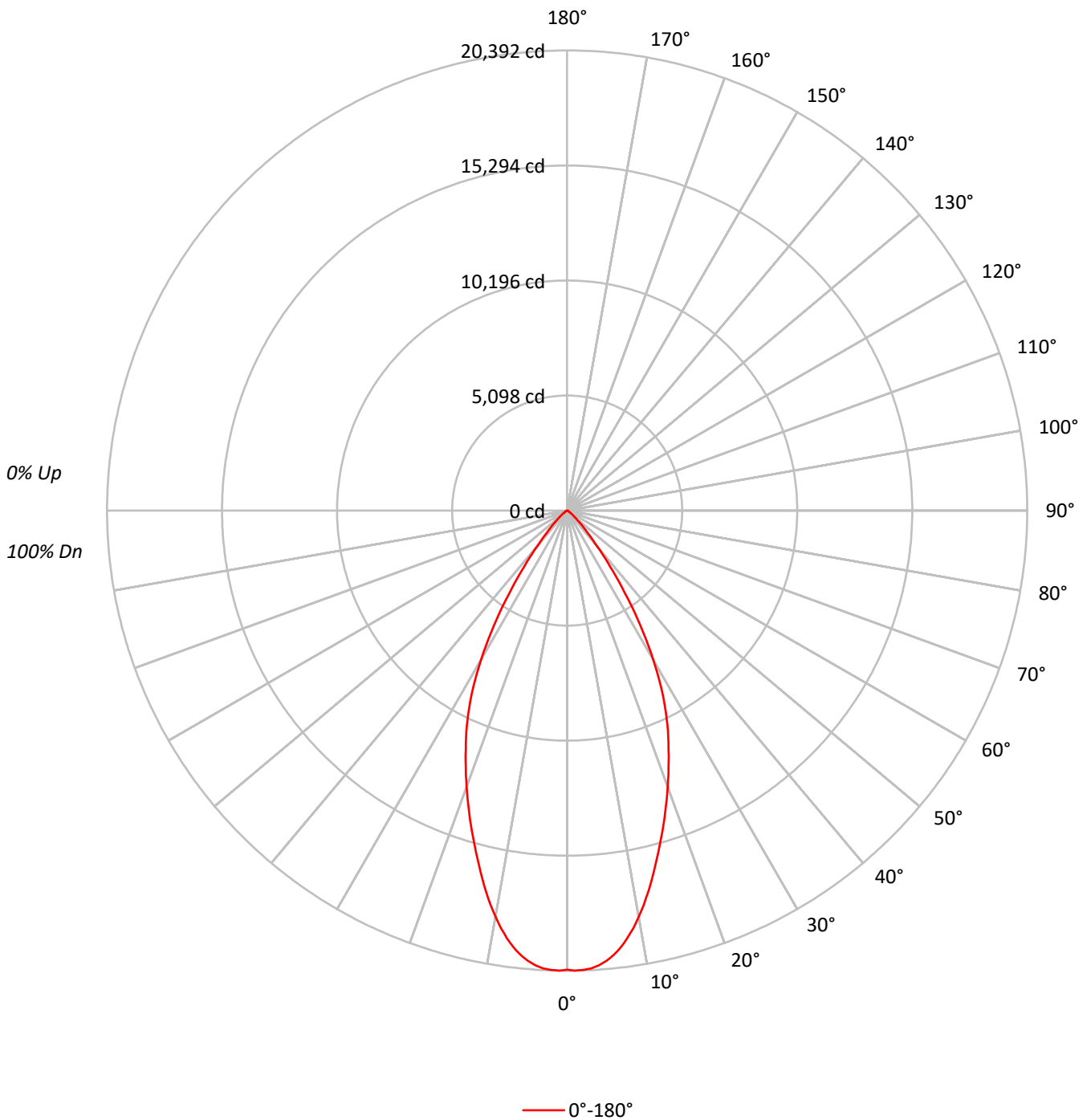
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249852

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBN0H

Luminous Intensity Polar Plot





TEST NUMBER: P249852

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBNOH

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	627559
5°	619853
10°	572462
15°	499175
20°	427590
25°	357920
30°	272299
35°	168797
40°	83277
45°	39636
50°	19271
55°	9446
60°	5884
65°	4028
70°	2263
75°	1799
80°	1776
85°	1769



TEST NUMBER: P249852

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBNOH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1855.8	12.5
10°-20°	4356.9	29.4
20°-30°	4761.9	32.1
30°-40°	2833.7	19.1
40°-50°	777.3	5.2
50°-60°	176.1	1.2
60°-70°	54.4	0.4
70°-80°	16.5	0.1
80°-90°	5.4	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°	10974.5	74.0
0°-40°	13808.2	93.1
0°-60°	14761.6	99.5
0°-90°	14837.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14837.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20351	
5°	20025	###
15°	15636	4357
25°	10520	4762
35°	4484	2834
45°	909	777
55°	176	176
65°	55	54
75°	15	17
85°	5	5
90°	0	



TEST NUMBER: P249852

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBNOH

CANDELA DISTRIBUTION (FULL):

0°	
0°	20351.3
1°	20391.5
2°	20366.3
3°	20316.1
4°	20200.6
5°	20024.9
6°	19798.9
7°	19497.7
8°	19146.2
9°	18739.4
10°	18282.5
11°	17795.4
12°	17273.2
13°	16736.0
14°	16178.6
15°	15636.3
16°	15104.0
17°	14581.8
18°	14059.6
19°	13537.4
20°	13030.2
22.5°	11754.8
25°	10519.6
27.5°	9158.8
30°	7647.4
32.5°	6025.5
35°	4484.0
37.5°	3118.2
40°	2068.8
42.5°	1355.7
45°	908.9
47.5°	602.6
50°	401.7
52.5°	246.0
55°	175.7
57.5°	125.5
60°	95.4
62.5°	70.3
65°	55.2
67.5°	35.1
70°	25.1
72.5°	20.1
75°	15.1
77.5°	10.0
80°	10.0



TEST NUMBER: P249852

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBNOH

CANDELA DISTRIBUTION (continued):

	0°
82.5°	5.0
85°	5.0
87.5°	5.0
90°	0.0

(END OF REPORT)