

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: P250048

Luminaire Tested: **LD8B175D010 ER8B175830 8LBNOWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15874.1 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

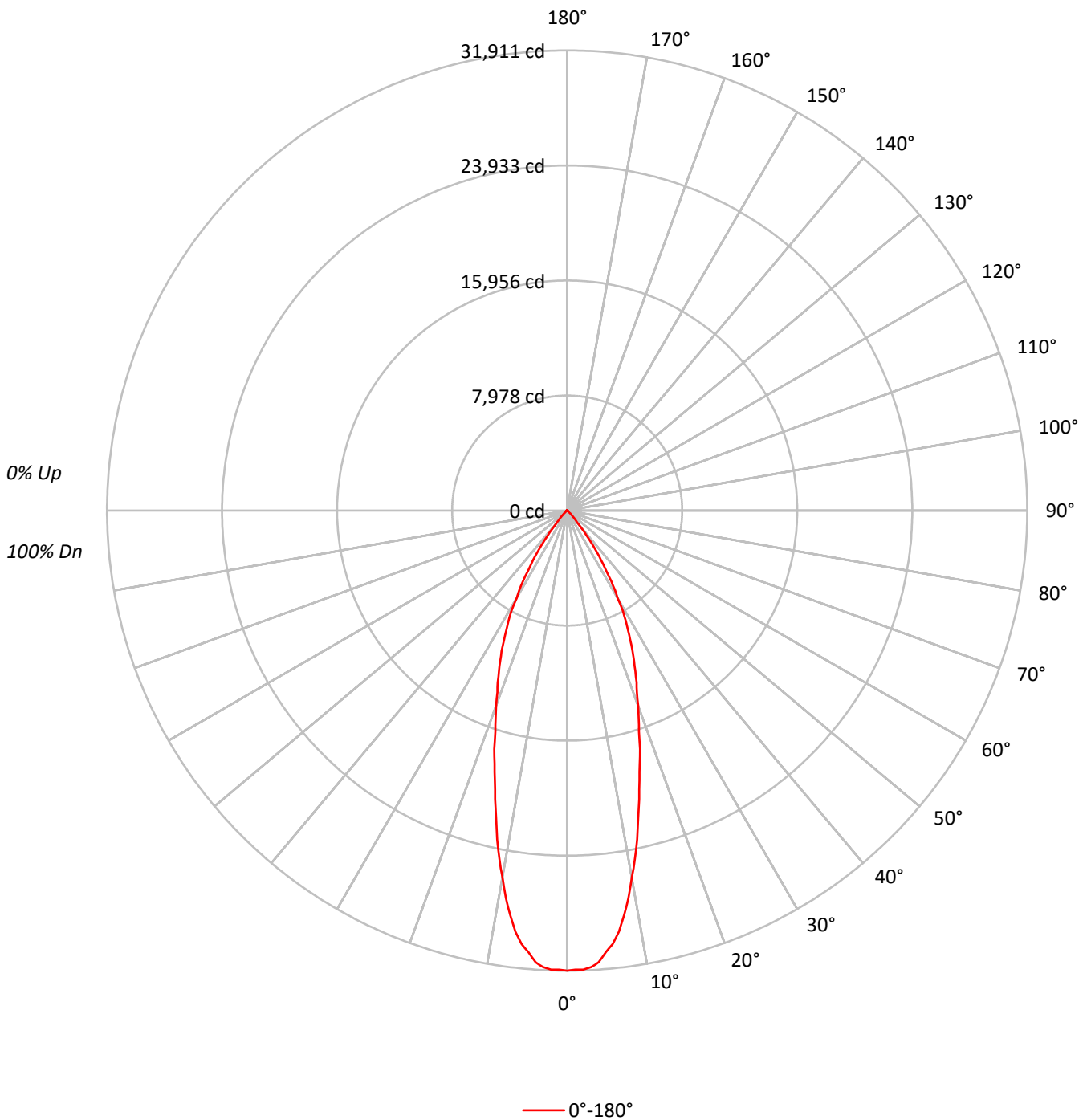
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250048

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250048

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0WH

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	984005
5°	951588
10°	809265
15°	617664
20°	472048
25°	365803
30°	249493
35°	146583
40°	44819
45°	17631
50°	269
55°	301
60°	345
65°	810
70°	1506
75°	1322
80°	994
85°	5909



TEST NUMBER: P250048

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBN0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2786.9	17.6
10°-20°	5400.4	34.0
20°-30°	4862.1	30.6
30°-40°	2405.6	15.2
40°-50°	365.9	2.3
50°-60°	15.0	0.1
60°-70°	19.4	0.1
70°-80°	7.3	0.0
80°-90°	11.4	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°	13049.5	82.2
0°-40°	15455.0	97.4
0°-60°	15836.0	99.8
0°-90°	15874.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15874.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	31911	
5°	30742	###
15°	19348	5400
25°	10751	4862
35°	3894	2406
45°	404	366
55°	6	15
65°	11	19
75°	11	7
85°	17	11
90°	0	



TEST NUMBER: P250048

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBNOWH

CANDELA DISTRIBUTION (FULL):

	0°
0°	31910.6
1°	31844.2
2°	31860.6
3°	31700.0
4°	31406.5
5°	30741.9
6°	30232.2
7°	29423.6
8°	28338.0
9°	27207.8
10°	25845.2
11°	24626.7
12°	23319.5
13°	21873.8
14°	20627.5
15°	19347.9
16°	18256.7
17°	17293.0
18°	16107.6
19°	15237.8
20°	14385.0
21°	13498.6
22°	12850.6
23°	12097.3
24°	11404.8
25°	10751.3
26°	9981.3
27°	9289.1
28°	8668.6
29°	7987.2
30°	7006.9
31°	6453.1
32°	5755.1
33°	4990.6
34°	4409.0
35°	3893.9
37.5°	2464.8
40°	1113.4
42.5°	758.9
45°	404.3
47.5°	227.0
50°	5.6
52.5°	22.2
55°	5.6
57.5°	33.3



TEST NUMBER: P250048

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBNOWH

CANDELA DISTRIBUTION (continued):

	0°
60°	5.6
62.5°	27.8
65°	11.1
67.5°	27.8
70°	16.7
72.5°	5.6
75°	11.1
77.5°	0.0
80°	5.6
82.5°	22.2
85°	16.7
87.5°	0.0
90°	0.0

(END OF REPORT)