

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: P250685

Luminaire Tested: **LD8B175D010 ER8B175940 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14618.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

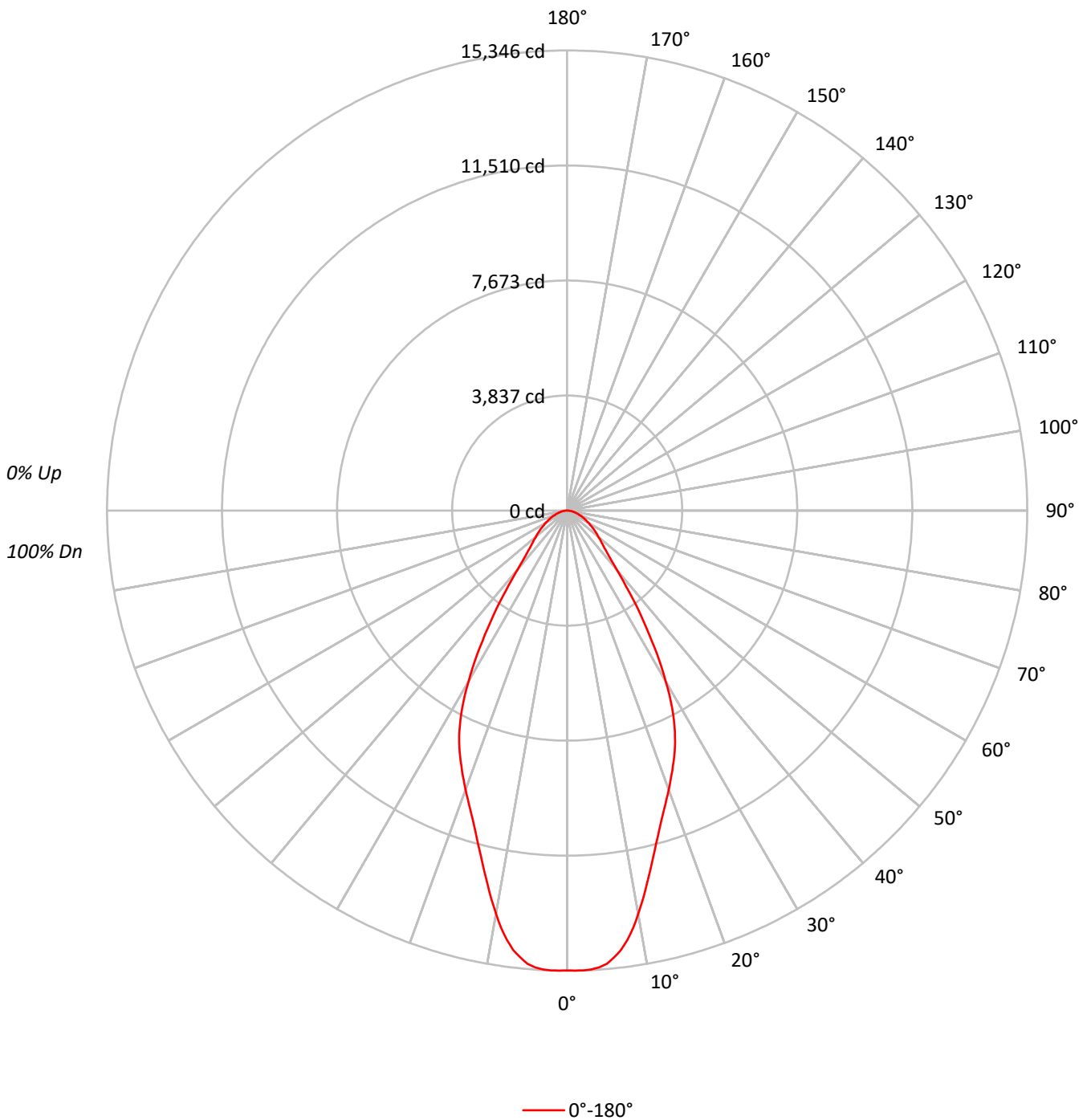
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	109	106	104	101	102	100	98	98	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67
5	87	78	71	66	85	77	70	65	75	69	65	73	68	64	71	67	64	62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	54	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	472912
5°	469521
10°	427778
15°	366754
20°	324947
25°	289943
30°	234171
35°	162593
40°	103082
45°	76482
50°	65344
55°	57428
60°	51201
65°	45946
70°	39535
75°	36124
80°	33953
85°	29720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1400.0	9.6
10°-20°	3230.3	22.1
20°-30°	3850.0	26.3
30°-40°	2717.6	18.6
40°-50°	1403.5	9.6
50°-60°	963.1	6.6
60°-70°	626.1	4.3
70°-80°	327.8	2.2
80°-90°	99.6	0.7
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°	8480.3	58.0
0°-40°	11197.9	76.6
0°-60°	13564.5	92.8
0°-90°	14618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14618.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15336	
5°	15168	###
15°	11488	3230
25°	8522	3850
35°	4319	2718
45°	1754	1403
55°	1068	963
65°	630	626
75°	303	328
85°	84	100
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15336.2
1°	15345.6
2°	15345.6
3°	15322.2
4°	15271.0
5°	15168.3
6°	14986.4
7°	14762.5
8°	14454.6
9°	14081.6
10°	13661.8
11°	13218.6
12°	12756.7
13°	12313.8
14°	11884.6
15°	11488.3
16°	11119.7
17°	10779.3
18°	10471.3
19°	10182.1
20°	9902.3
21°	9627.1
22°	9356.6
23°	9086.1
24°	8810.9
25°	8521.7
26°	8195.1
27°	7840.6
28°	7453.6
29°	7043.1
30°	6576.6
31°	6124.2
32°	5662.4
33°	5186.7
34°	4748.2
35°	4319.2
37.5°	3325.7
40°	2560.8
42.5°	2061.7
45°	1753.8
47.5°	1534.5
50°	1362.1
52.5°	1212.8
55°	1068.2
57.5°	937.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	830.2
62.5°	723.0
65°	629.7
67.5°	545.7
70°	438.5
72.5°	377.9
75°	303.2
77.5°	247.1
80°	191.2
82.5°	139.9
85°	84.0
87.5°	46.6
90°	0.0

(END OF REPORT)