

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: P250629

Luminaire Tested: **LD8B175D010 ER8B175827 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250629
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 ER8B175827 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15397.1 lumens
Efficiency: N/A
Efficacy: 86.9 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

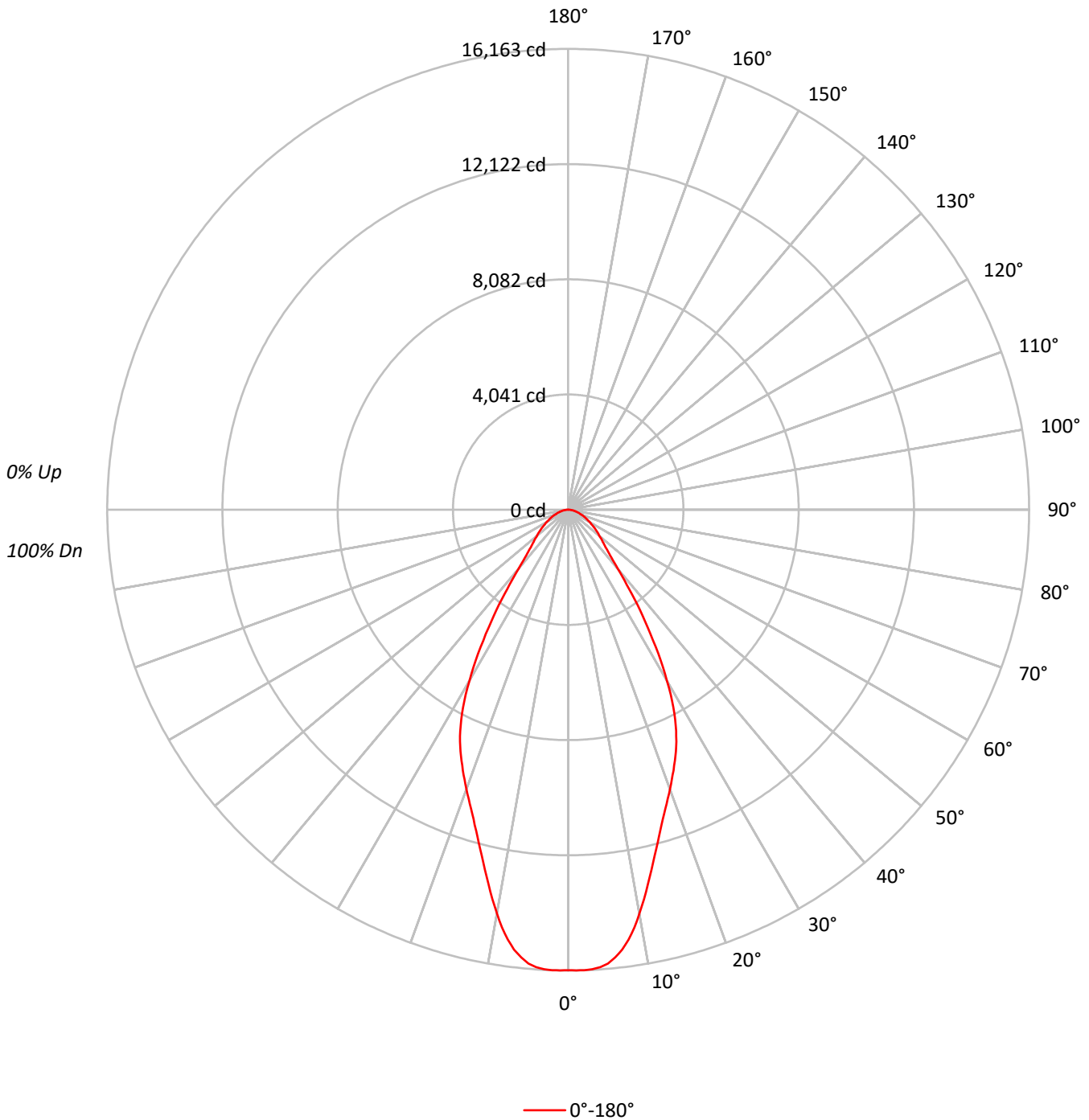
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	498114
5°	494541
10°	450574
15°	386298
20°	342264
25°	305394
30°	246648
35°	171258
40°	108577
45°	80555
50°	68822
55°	60487
60°	53927
65°	48390
70°	41645
75°	38054
80°	35764
85°	31312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1474.6	9.6
10°-20°	3402.4	22.1
20°-30°	4055.2	26.3
30°-40°	2862.4	18.6
40°-50°	1478.3	9.6
50°-60°	1014.4	6.6
60°-70°	659.5	4.3
70°-80°	345.3	2.2
80°-90°	104.9	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°	8932.2	58.0
0°-40°	11794.6	76.6
0°-60°	14287.4	92.8
0°-90°	15397.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15397.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16154	
5°	15977	###
15°	12100	3402
25°	8976	4055
35°	4549	2862
45°	1847	1478
55°	1125	1014
65°	663	660
75°	319	345
85°	88	105
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	16153.5
1°	16163.4
2°	16163.4
3°	16138.7
4°	16084.8
5°	15976.6
6°	15785.1
7°	15549.2
8°	15224.9
9°	14832.0
10°	14389.8
11°	13923.1
12°	13436.6
13°	12970.0
14°	12518.0
15°	12100.5
16°	11712.3
17°	11353.7
18°	11029.4
19°	10724.7
20°	10430.0
21°	10140.1
22°	9855.2
23°	9570.3
24°	9280.5
25°	8975.8
26°	8631.8
27°	8258.4
28°	7850.8
29°	7418.5
30°	6927.0
31°	6450.6
32°	5964.1
33°	5463.1
34°	5001.2
35°	4549.4
37.5°	3502.9
40°	2697.3
42.5°	2171.6
45°	1847.2
47.5°	1616.3
50°	1434.6
52.5°	1277.4
55°	1125.1
57.5°	987.6



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CANDELA DISTRIBUTION (continued):

	0°
60°	874.4
62.5°	761.6
65°	663.2
67.5°	574.8
70°	461.9
72.5°	398.0
75°	319.4
77.5°	260.3
80°	201.4
82.5°	147.4
85°	88.5
87.5°	49.1
90°	0.0

(END OF REPORT)