

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: P250650

Luminaire Tested: **LD8B175D010 ER8B175840 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250650
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 ER8B175840 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16304.9 lumens
Efficiency: N/A
Efficacy: 92.0 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

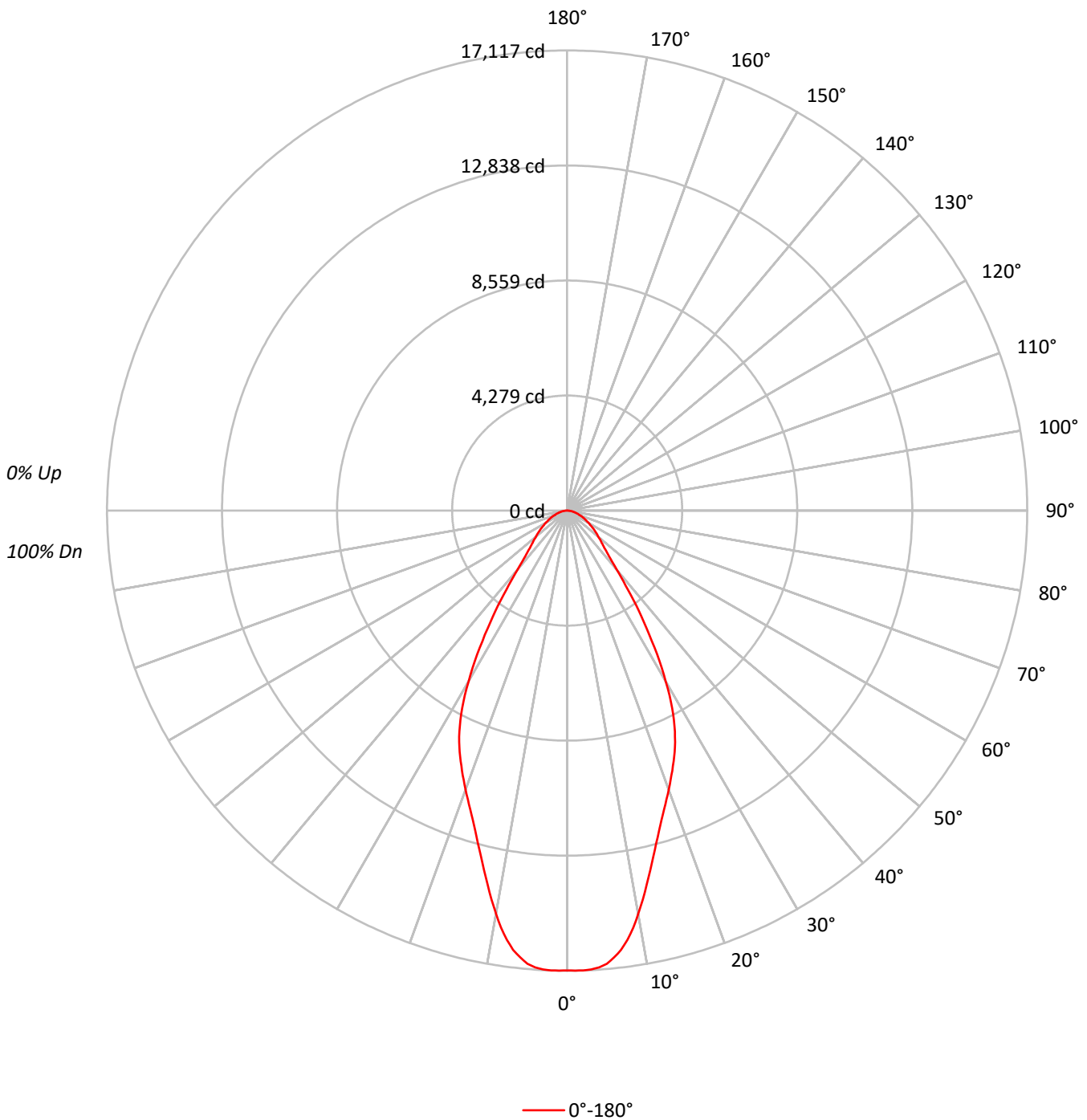
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	527489
5°	523706
10°	477148
15°	409079
20°	362448
25°	323406
30°	261193
35°	181358
40°	114977
45°	85308
50°	72880
55°	64051
60°	57109
65°	51243
70°	44097
75°	40294
80°	37860
85°	33152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1561.6	9.6
10°-20°	3603.1	22.1
20°-30°	4294.3	26.3
30°-40°	3031.2	18.6
40°-50°	1565.4	9.6
50°-60°	1074.2	6.6
60°-70°	698.4	4.3
70°-80°	365.6	2.2
80°-90°	111.1	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°	9458.9	58.0
0°-40°	12490.2	76.6
0°-60°	15129.9	92.8
0°-90°	16304.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16304.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17106	
5°	16919	###
15°	12814	3603
25°	9505	4294
35°	4818	3031
45°	1956	1565
55°	1191	1074
65°	702	698
75°	338	366
85°	94	111
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17106.1
1°	17116.6
2°	17116.6
3°	17090.5
4°	17033.3
5°	16918.8
6°	16715.9
7°	16466.2
8°	16122.7
9°	15706.7
10°	15238.5
11°	14744.1
12°	14228.9
13°	13734.9
14°	13256.2
15°	12814.1
16°	12403.0
17°	12023.3
18°	11679.8
19°	11357.2
20°	11045.1
21°	10738.1
22°	10436.4
23°	10134.7
24°	9827.8
25°	9505.2
26°	9140.8
27°	8745.4
28°	8313.7
29°	7855.9
30°	7335.5
31°	6831.0
32°	6315.8
33°	5785.2
34°	5296.1
35°	4817.7
37.5°	3709.5
40°	2856.3
42.5°	2299.6
45°	1956.2
47.5°	1711.6
50°	1519.2
52.5°	1352.7
55°	1191.4
57.5°	1045.8



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CANDELA DISTRIBUTION (continued):

	0°
60°	926.0
62.5°	806.5
65°	702.3
67.5°	608.6
70°	489.1
72.5°	421.5
75°	338.2
77.5°	275.6
80°	213.2
82.5°	156.1
85°	93.7
87.5°	51.9
90°	0.0

(END OF REPORT)