

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: P250678

Luminaire Tested: **LD8B175D010 ER8B175935 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250678
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 ER8B175935 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13996.0 lumens
Efficiency: N/A
Efficacy: 79.0 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

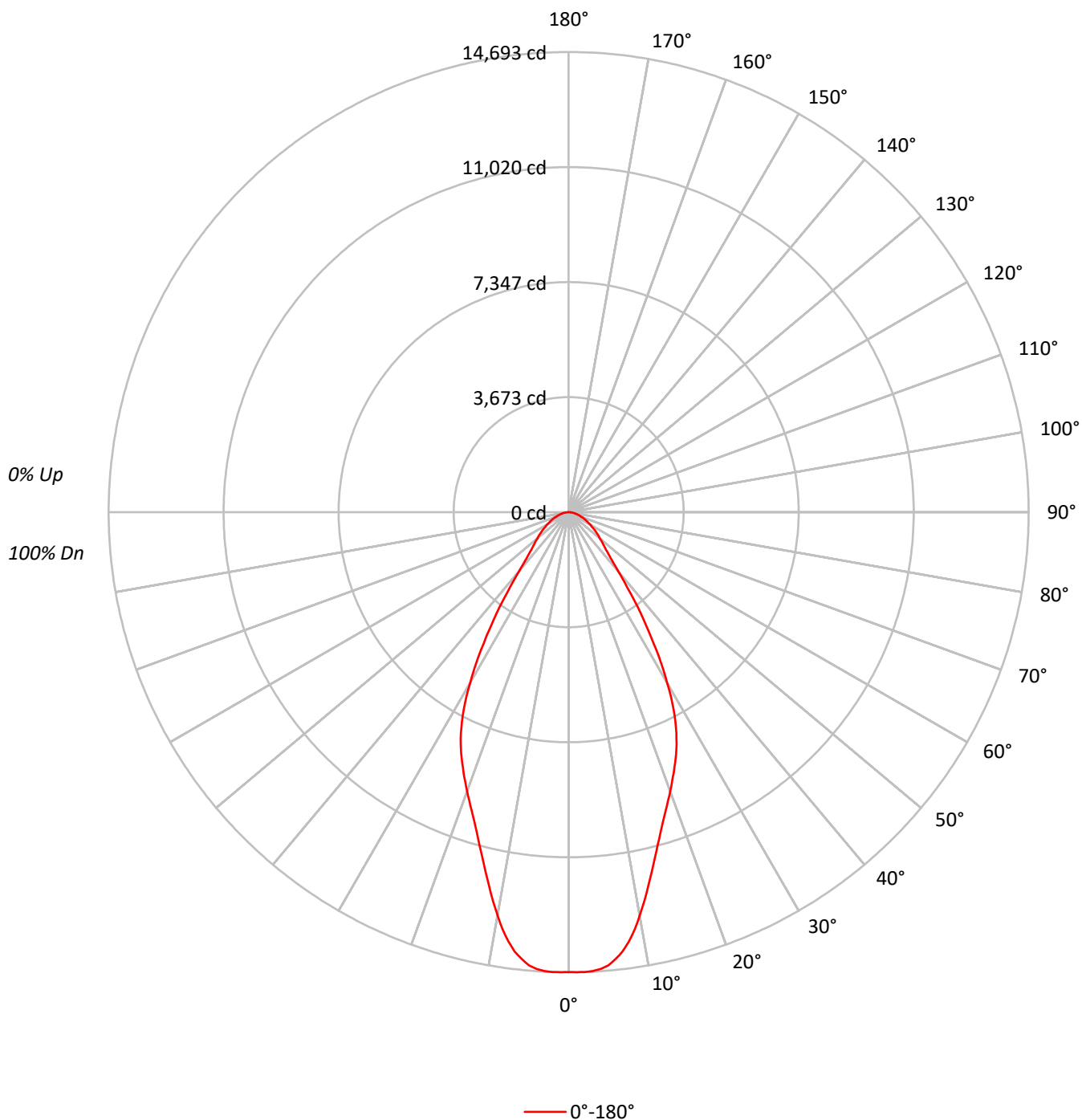
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	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°	452791
5°	449540
10°	409577
15°	351146
20°	311119
25°	277606
30°	224205
35°	155674
40°	98695
45°	73224
50°	62561
55°	54982
60°	49024
65°	43991
70°	37849
75°	34587
80°	32497
85°	28446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1340.4	9.6
10°-20°	3092.8	22.1
20°-30°	3686.2	26.3
30°-40°	2602.0	18.6
40°-50°	1343.7	9.6
50°-60°	922.1	6.6
60°-70°	599.5	4.3
70°-80°	313.8	2.2
80°-90°	95.4	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°	8119.4	58.0
0°-40°	10721.4	76.6
0°-60°	12987.3	92.8
0°-90°	13996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13996.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14684	
5°	14523	###
15°	10999	3093
25°	8159	3686
35°	4135	2602
45°	1679	1344
55°	1023	922
65°	603	600
75°	290	314
85°	80	95
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14683.7
1°	14692.6
2°	14692.6
3°	14670.2
4°	14621.2
5°	14522.8
6°	14348.8
7°	14134.4
8°	13839.5
9°	13482.4
10°	13080.5
11°	12656.2
12°	12213.9
13°	11789.8
14°	11379.0
15°	10999.4
16°	10646.6
17°	10320.6
18°	10025.8
19°	9748.9
20°	9480.9
21°	9217.5
22°	8958.5
23°	8699.5
24°	8436.0
25°	8159.1
26°	7846.4
27°	7507.0
28°	7136.4
29°	6743.4
30°	6296.7
31°	5863.7
32°	5421.4
33°	4966.0
34°	4546.1
35°	4135.4
37.5°	3184.2
40°	2451.8
42.5°	1974.0
45°	1679.1
47.5°	1469.2
50°	1304.1
52.5°	1161.2
55°	1022.7
57.5°	897.7



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CANDELA DISTRIBUTION (continued):

	0°
60°	794.9
62.5°	692.3
65°	602.9
67.5°	522.5
70°	419.8
72.5°	361.8
75°	290.3
77.5°	236.6
80°	183.0
82.5°	134.0
85°	80.4
87.5°	44.6
90°	0.0

(END OF REPORT)