

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: P250657

Luminaire Tested: **LD8B175D010 ER8B175850 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250657
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 ER8B175850 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16624.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

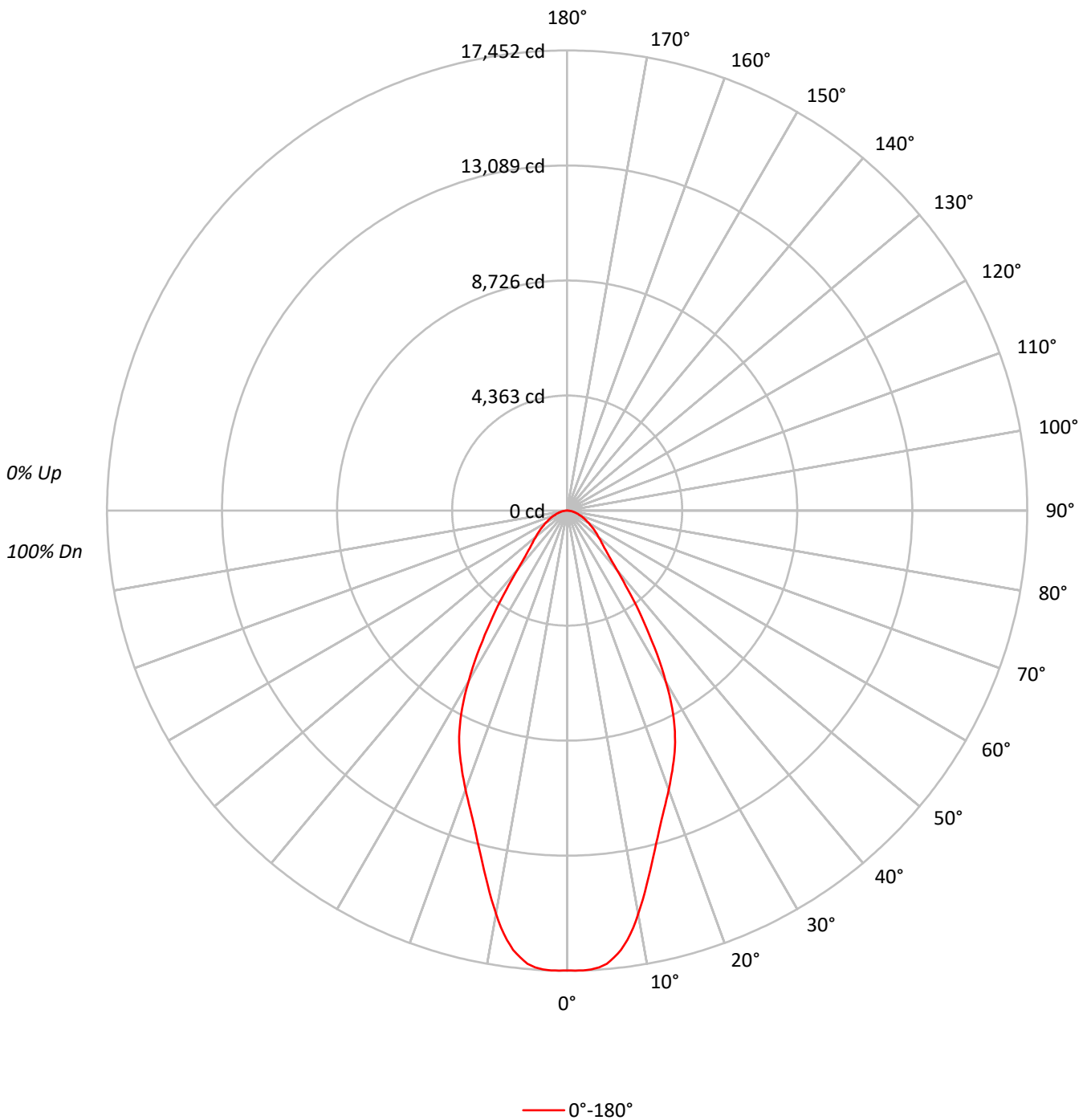
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	537810
5°	533952
10°	486482
15°	417082
20°	369537
25°	329731
30°	266306
35°	184908
40°	117228
45°	86974
50°	74310
55°	65304
60°	58225
65°	52250
70°	44962
75°	41092
80°	38606
85°	33789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1592.1	9.6
10°-20°	3673.6	22.1
20°-30°	4378.3	26.3
30°-40°	3090.6	18.6
40°-50°	1596.1	9.6
50°-60°	1095.3	6.6
60°-70°	712.1	4.3
70°-80°	372.8	2.2
80°-90°	113.3	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°	9644.0	58.0
0°-40°	12734.6	76.6
0°-60°	15425.9	92.8
0°-90°	16624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16624.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17441	
5°	17250	###
15°	13065	3674
25°	9691	4378
35°	4912	3091
45°	1994	1596
55°	1215	1095
65°	716	712
75°	345	373
85°	96	113
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	17440.8
1°	17451.5
2°	17451.5
3°	17424.9
4°	17366.6
5°	17249.8
6°	17043.0
7°	16788.3
8°	16438.2
9°	16014.0
10°	15536.6
11°	15032.6
12°	14507.3
13°	14003.6
14°	13515.6
15°	13064.8
16°	12645.7
17°	12258.5
18°	11908.3
19°	11579.4
20°	11261.1
21°	10948.2
22°	10640.6
23°	10333.0
24°	10020.0
25°	9691.1
26°	9319.7
27°	8916.5
28°	8476.4
29°	8009.6
30°	7479.1
31°	6964.7
32°	6439.4
33°	5898.4
34°	5399.7
35°	4912.0
37.5°	3782.1
40°	2912.2
42.5°	2344.6
45°	1994.4
47.5°	1745.1
50°	1549.0
52.5°	1379.2
55°	1214.7
57.5°	1066.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	944.1
62.5°	822.2
65°	716.1
67.5°	620.6
70°	498.7
72.5°	429.7
75°	344.9
77.5°	281.0
80°	217.4
82.5°	159.1
85°	95.5
87.5°	53.0
90°	0.0

(END OF REPORT)