

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: P250636

Luminaire Tested: **LD8B175D010 ER8B175830 8LBN0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250636
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 ER8B175830 8LBN0MW
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15782.0 lumens
Efficiency: N/A
Efficacy: 89.1 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

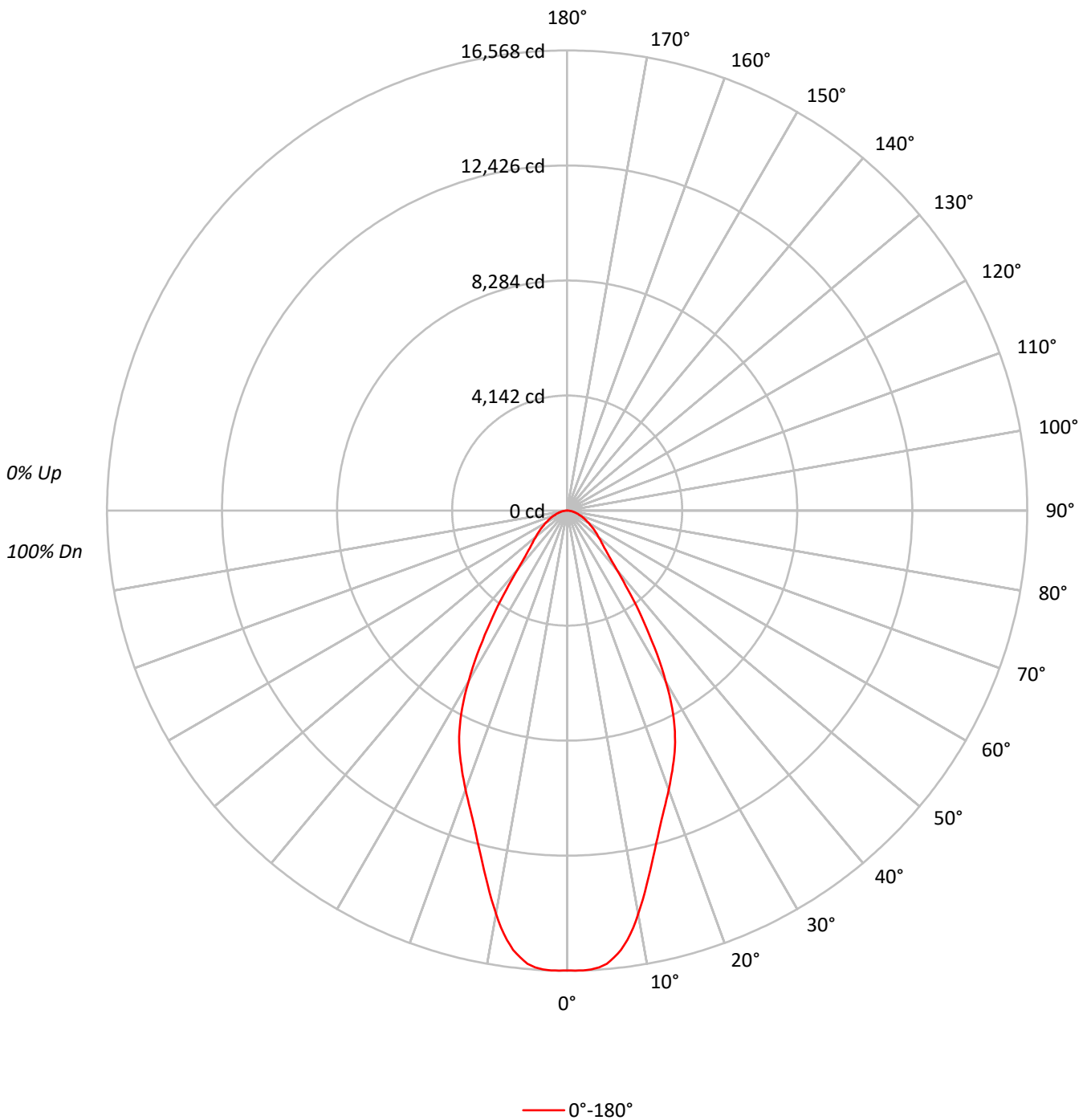
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	510569
5°	506908
10°	461843
15°	395955
20°	350822
25°	313032
30°	252815
35°	175542
40°	111290
45°	82570
50°	70544
55°	61998
60°	55277
65°	49602
70°	42681
75°	39007
80°	36652
85°	32090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1511.5	9.6
10°-20°	3487.5	22.1
20°-30°	4156.6	26.3
30°-40°	2934.0	18.6
40°-50°	1515.2	9.6
50°-60°	1039.8	6.6
60°-70°	676.0	4.3
70°-80°	353.9	2.2
80°-90°	107.6	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°	9155.5	58.0
0°-40°	12089.6	76.6
0°-60°	14644.6	92.8
0°-90°	15782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15782.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16557	
5°	16376	###
15°	12403	3487
25°	9200	4157
35°	4663	2934
45°	1893	1515
55°	1153	1040
65°	680	676
75°	327	354
85°	91	108
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	16557.4
1°	16567.5
2°	16567.5
3°	16542.3
4°	16487.0
5°	16376.1
6°	16179.8
7°	15938.0
8°	15605.6
9°	15202.9
10°	14749.7
11°	14271.2
12°	13772.5
13°	13294.3
14°	12831.0
15°	12403.0
16°	12005.2
17°	11637.6
18°	11305.2
19°	10992.9
20°	10690.8
21°	10393.7
22°	10101.7
23°	9809.6
24°	9512.5
25°	9200.3
26°	8847.6
27°	8464.9
28°	8047.1
29°	7604.0
30°	7100.2
31°	6611.9
32°	6113.2
33°	5599.7
34°	5126.2
35°	4663.2
37.5°	3590.5
40°	2764.7
42.5°	2225.9
45°	1893.4
47.5°	1656.7
50°	1470.5
52.5°	1309.3
55°	1153.2
57.5°	1012.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	896.3
62.5°	780.6
65°	679.8
67.5°	589.1
70°	473.4
72.5°	408.0
75°	327.4
77.5°	266.8
80°	206.4
82.5°	151.1
85°	90.7
87.5°	50.3
90°	0.0

(END OF REPORT)