

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: P250769

Luminaire Tested: **LD8B175D010 ER8B175940 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175940 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16171.0 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

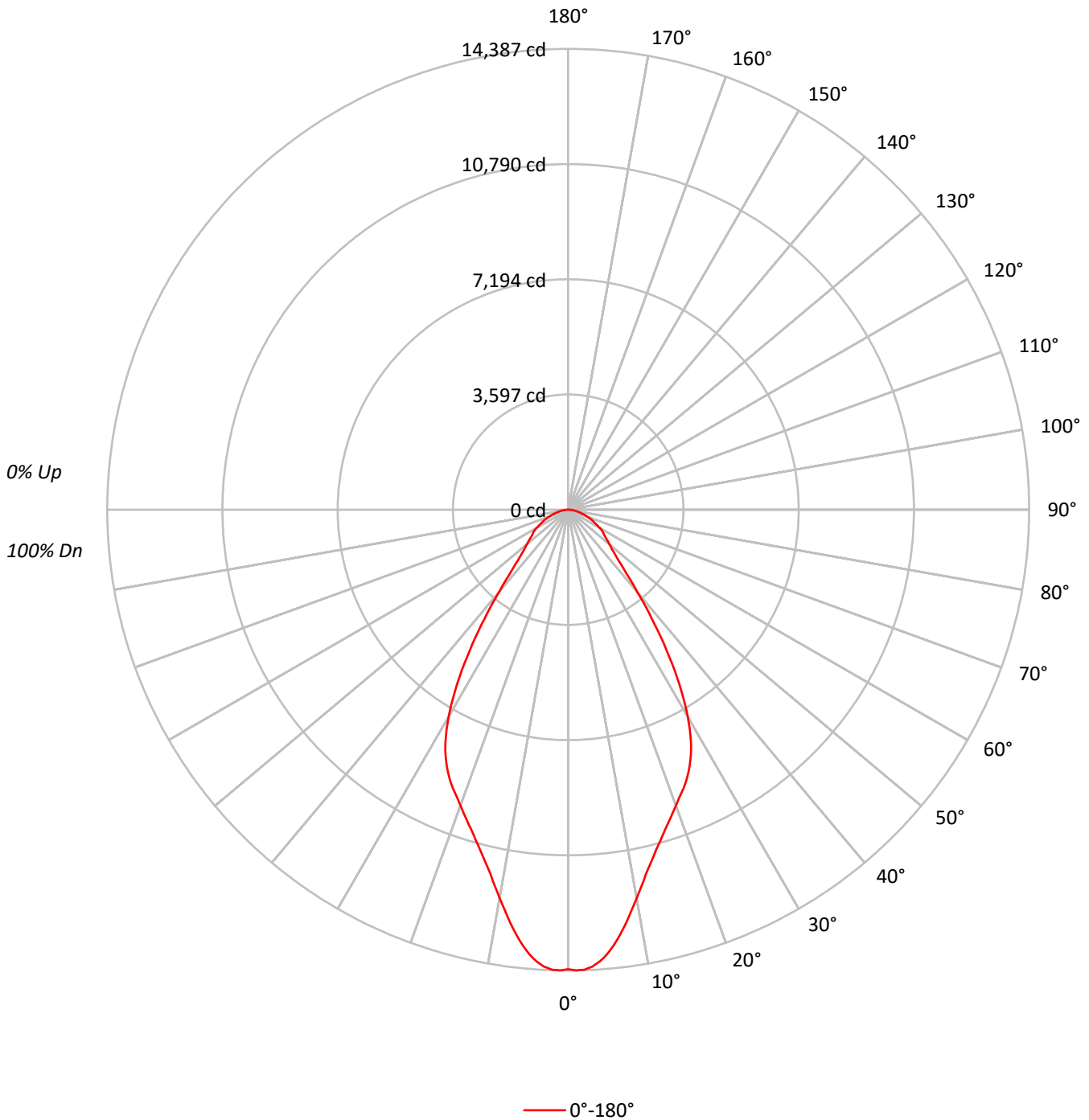
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	442332
5°	431129
10°	385429
15°	346364
20°	322565
25°	303883
30°	265708
35°	201306
40°	135221
45°	95282
50°	80801
55°	73702
60°	69826
65°	62816
70°	56521
75°	50719
80°	44857
85°	43058



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1274.8	7.9
10°-20°	3059.7	18.9
20°-30°	4054.7	25.1
30°-40°	3325.0	20.6
40°-50°	1770.9	11.0
50°-60°	1246.4	7.7
60°-70°	859.5	5.3
70°-80°	447.6	2.8
80°-90°	132.4	0.8
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°	8389.3	51.9
0°-40°	11714.3	72.4
0°-60°	14731.6	91.1
0°-90°	16171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16171.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14344	
5°	13928	###
15°	10850	3060
25°	8931	4055
35°	5348	3325
45°	2185	1771
55°	1371	1246
65°	861	859
75°	426	448
85°	122	132
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14344.5
1°	14386.6
2°	14367.9
3°	14283.6
4°	14138.7
5°	13928.0
6°	13666.1
7°	13352.7
8°	13015.8
9°	12655.5
10°	12309.3
11°	11977.1
12°	11640.2
13°	11359.5
14°	11092.9
15°	10849.6
16°	10620.3
17°	10409.8
18°	10213.3
19°	10016.8
20°	9829.7
21°	9647.2
22°	9488.2
23°	9324.4
24°	9132.6
25°	8931.4
26°	8702.2
27°	8444.8
28°	8154.7
29°	7831.9
30°	7462.3
31°	7074.0
32°	6667.0
33°	6231.9
34°	5796.8
35°	5347.6
37.5°	4285.6
40°	3359.2
42.5°	2652.8
45°	2184.9
47.5°	1876.2
50°	1684.3
52.5°	1515.9
55°	1370.9
57.5°	1281.9



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CANDELA DISTRIBUTION (continued):

	0°
60°	1132.2
62.5°	987.1
65°	860.9
67.5°	748.6
70°	626.9
72.5°	524.0
75°	425.7
77.5°	308.7
80°	252.6
82.5°	182.5
85°	121.7
87.5°	56.1
90°	0.0

(END OF REPORT)