

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: P250720

Luminaire Tested: **LD8B175D010 ER8B175830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250720
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 ER8B175830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17459.0 lumens
Efficiency: N/A
Efficacy: 98.5 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

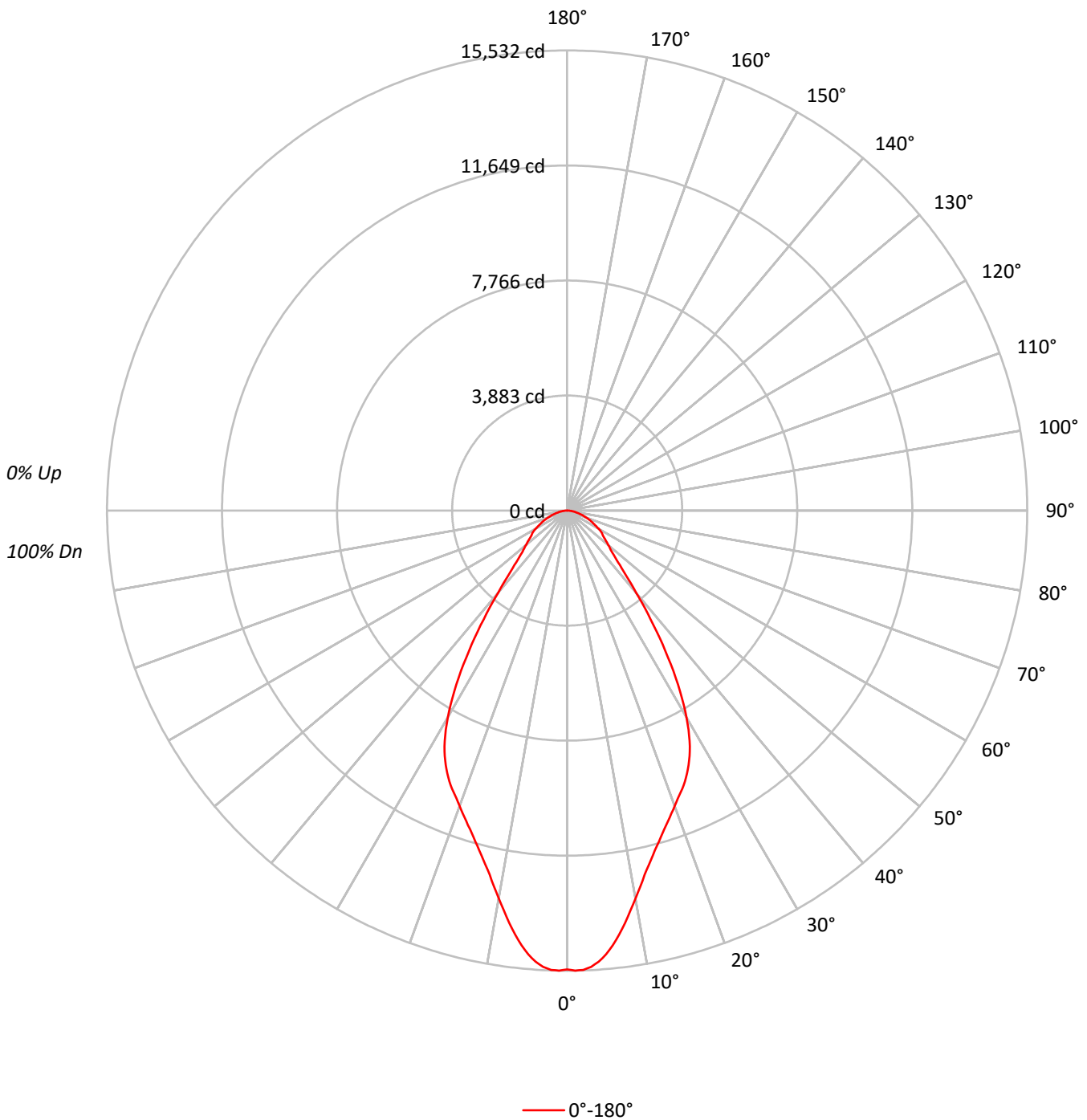
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89				89
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80				80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	71				71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49				49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46				46
9	67	56	49	44	66	56	49	44	54	48	44	54	48	44	53	48	44	42				42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39				39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	477562
5°	465469
10°	416130
15°	373953
20°	348256
25°	328084
30°	286869
35°	217339
40°	145993
45°	102870
50°	87234
55°	79567
60°	75389
65°	67814
70°	61020
75°	54758
80°	48444
85°	46490



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1376.4	7.9
10°-20°	3303.5	18.9
20°-30°	4377.7	25.1
30°-40°	3589.8	20.6
40°-50°	1911.9	11.0
50°-60°	1345.6	7.7
60°-70°	927.9	5.3
70°-80°	483.2	2.8
80°-90°	143.0	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°	9057.5	51.9
0°-40°	12647.3	72.4
0°-60°	15904.9	91.1
0°-90°	17459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17459.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15487	
5°	15037	###
15°	11714	3303
25°	9643	4378
35°	5774	3590
45°	2359	1912
55°	1480	1346
65°	929	928
75°	460	483
85°	131	143
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	15487.0
1°	15532.5
2°	15512.2
3°	15421.3
4°	15264.8
5°	15037.4
6°	14754.6
7°	14416.2
8°	14052.5
9°	13663.5
10°	13289.8
11°	12931.1
12°	12567.4
13°	12264.3
14°	11976.4
15°	11713.8
16°	11466.2
17°	11239.0
18°	11026.7
19°	10814.7
20°	10612.6
21°	10415.6
22°	10243.9
23°	10067.0
24°	9860.0
25°	9642.7
26°	9395.3
27°	9117.5
28°	8804.3
29°	8455.7
30°	8056.6
31°	7637.4
32°	7198.0
33°	6728.2
34°	6258.5
35°	5773.5
37.5°	4626.9
40°	3626.8
42.5°	2864.1
45°	2358.9
47.5°	2025.6
50°	1818.4
52.5°	1636.6
55°	1480.0
57.5°	1384.0



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CANDELA DISTRIBUTION (continued):

	0°
60°	1222.4
62.5°	1065.8
65°	929.4
67.5°	808.2
70°	676.8
72.5°	565.7
75°	459.6
77.5°	333.3
80°	272.8
82.5°	197.0
85°	131.4
87.5°	60.6
90°	0.0

(END OF REPORT)