

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: P250713

Luminaire Tested: **LD8B175D010 ER8B175827 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250713  
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 ER8B175827 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17032.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

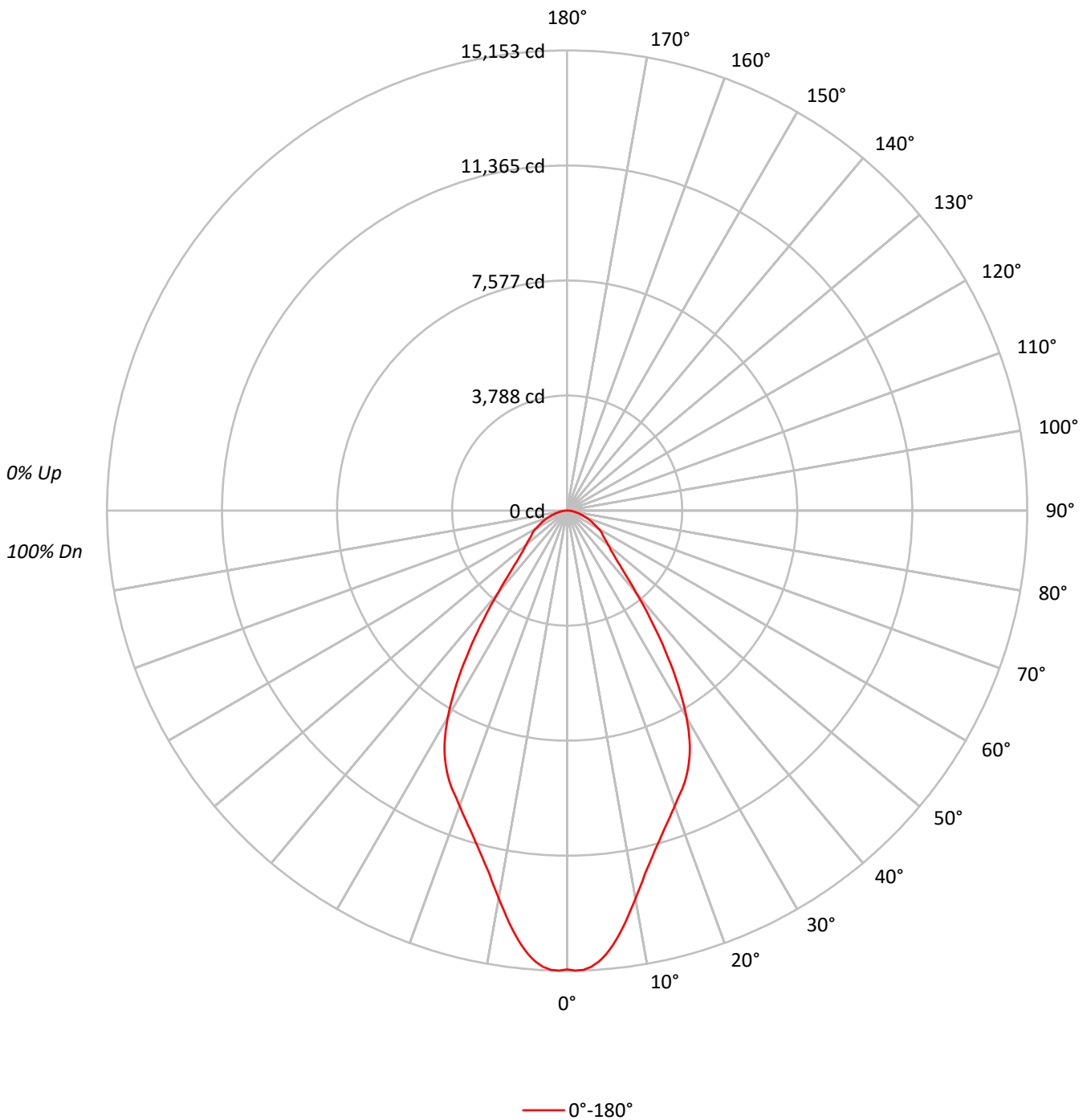
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	465884
5°	454084
10°	405951
15°	364806
20°	339737
25°	320061
30°	279854
35°	212023
40°	142422
45°	100353
50°	85104
55°	77621
60°	73545
65°	66157
70°	59532
75°	53423
80°	47254
85°	45358



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1342.7	7.9
10°-20°	3222.7	18.9
20°-30°	4270.6	25.1
30°-40°	3502.0	20.6
40°-50°	1865.1	11.0
50°-60°	1312.8	7.7
60°-70°	905.3	5.3
70°-80°	471.5	2.8
80°-90°	139.5	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°	8836.0	51.9
0°-40°	12338.0	72.4
0°-60°	15515.9	91.1
0°-90°	17032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	15108	
5°	14670	###
15°	11427	3223
25°	9407	4271
35°	5632	3502
45°	2301	1865
55°	1444	1313
65°	907	905
75°	448	471
85°	128	139
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	15108.3
1°	15152.6
2°	15132.9
3°	15044.1
4°	14891.5
5°	14669.6
6°	14393.7
7°	14063.6
8°	13708.8
9°	13329.3
10°	12964.7
11°	12614.8
12°	12260.0
13°	11964.3
14°	11683.5
15°	11427.3
16°	11185.8
17°	10964.1
18°	10757.1
19°	10550.2
20°	10353.0
21°	10160.8
22°	9993.4
23°	9820.8
24°	9618.9
25°	9406.9
26°	9165.5
27°	8894.5
28°	8588.9
29°	8248.9
30°	7859.6
31°	7450.6
32°	7022.0
33°	6563.7
34°	6105.4
35°	5632.3
37.5°	4513.7
40°	3538.1
42.5°	2794.0
45°	2301.2
47.5°	1976.0
50°	1774.0
52.5°	1596.6
55°	1443.8
57.5°	1350.2



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	1192.5
62.5°	1039.7
65°	906.7
67.5°	788.4
70°	660.3
72.5°	551.9
75°	448.4
77.5°	325.2
80°	266.1
82.5°	192.2
85°	128.2
87.5°	59.1
90°	0.0

(END OF REPORT)