

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: P250566

Luminaire Tested: **LD8B175D010 ER8B175840 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175840 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11469.0 lumens  
Efficiency: N/A  
Efficacy: 64.7 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

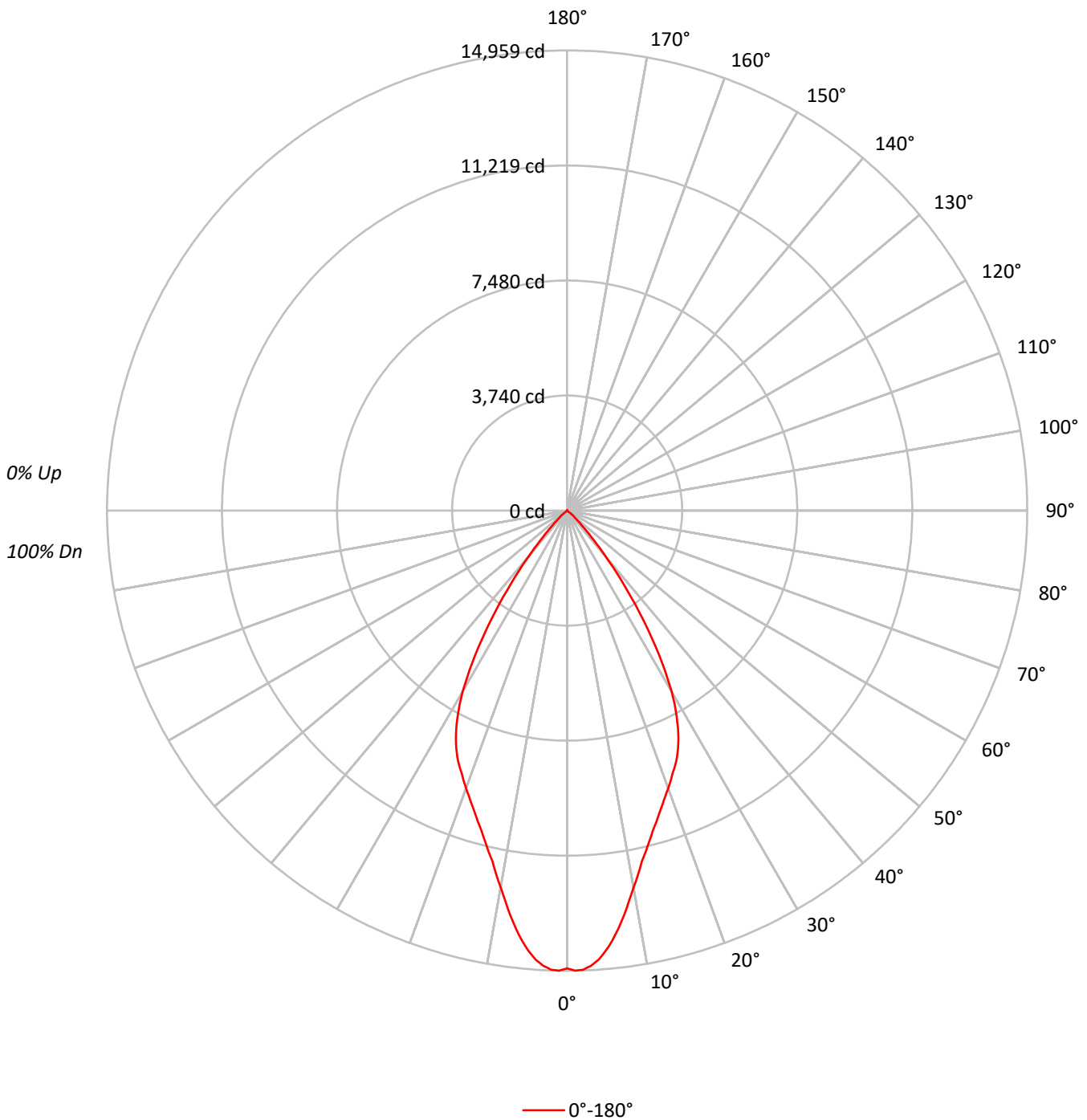
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	70	66	63	62
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	458888
5°	444857
10°	389606
15°	343966
20°	315191
25°	290219
30°	241552
35°	160443
40°	78085
45°	28281
50°	8510
55°	597
60°	0
65°	409
70°	0
75°	0
80°	994
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1307.1	11.4
10°-20°	3035.5	26.5
20°-30°	3851.0	33.6
30°-40°	2638.3	23.0
40°-50°	601.2	5.2
50°-60°	30.0	0.3
60°-70°	1.4	0.0
70°-80°	2.2	0.0
80°-90°	2.3	0.0
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°	8193.7	71.4
0°-40°	10831.9	94.4
0°-60°	11463.1	99.9
0°-90°	11469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11469.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14881	
5°	14372	###
15°	10774	3036
25°	8530	3851
35°	4262	2638
45°	648	601
55°	11	30
65°	6	1
75°	0	2
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	14881.4
1°	14959.0
2°	14931.2
3°	14820.4
4°	14631.9
5°	14371.5
6°	14055.5
7°	13689.8
8°	13285.1
9°	12852.8
10°	12442.7
11°	12065.8
12°	11661.3
13°	11367.5
14°	11057.1
15°	10774.5
16°	10519.5
17°	10270.0
18°	10037.3
19°	9810.0
20°	9605.0
21°	9394.4
22°	9178.2
23°	8989.8
24°	8779.2
25°	8529.8
26°	8252.6
27°	7931.2
28°	7587.6
29°	7205.1
30°	6783.9
31°	6307.3
32°	5814.0
33°	5298.6
34°	4772.0
35°	4262.1
37.5°	3009.5
40°	1939.8
42.5°	1141.7
45°	648.5
47.5°	349.2
50°	177.4
52.5°	33.2
55°	11.1
57.5°	5.6



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	5.6
67.5°	0.0
70°	0.0
72.5°	5.6
75°	0.0
77.5°	0.0
80°	5.6
82.5°	0.0
85°	0.0
87.5°	5.6
90°	0.0

(END OF REPORT)