

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: P250601

Luminaire Tested: **LD8B175D010 ER8B175940 8LBM0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250601  
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 ER8B175940 8LBM0B  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10282.1 lumens  
Efficiency: N/A  
Efficacy: 58.0 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

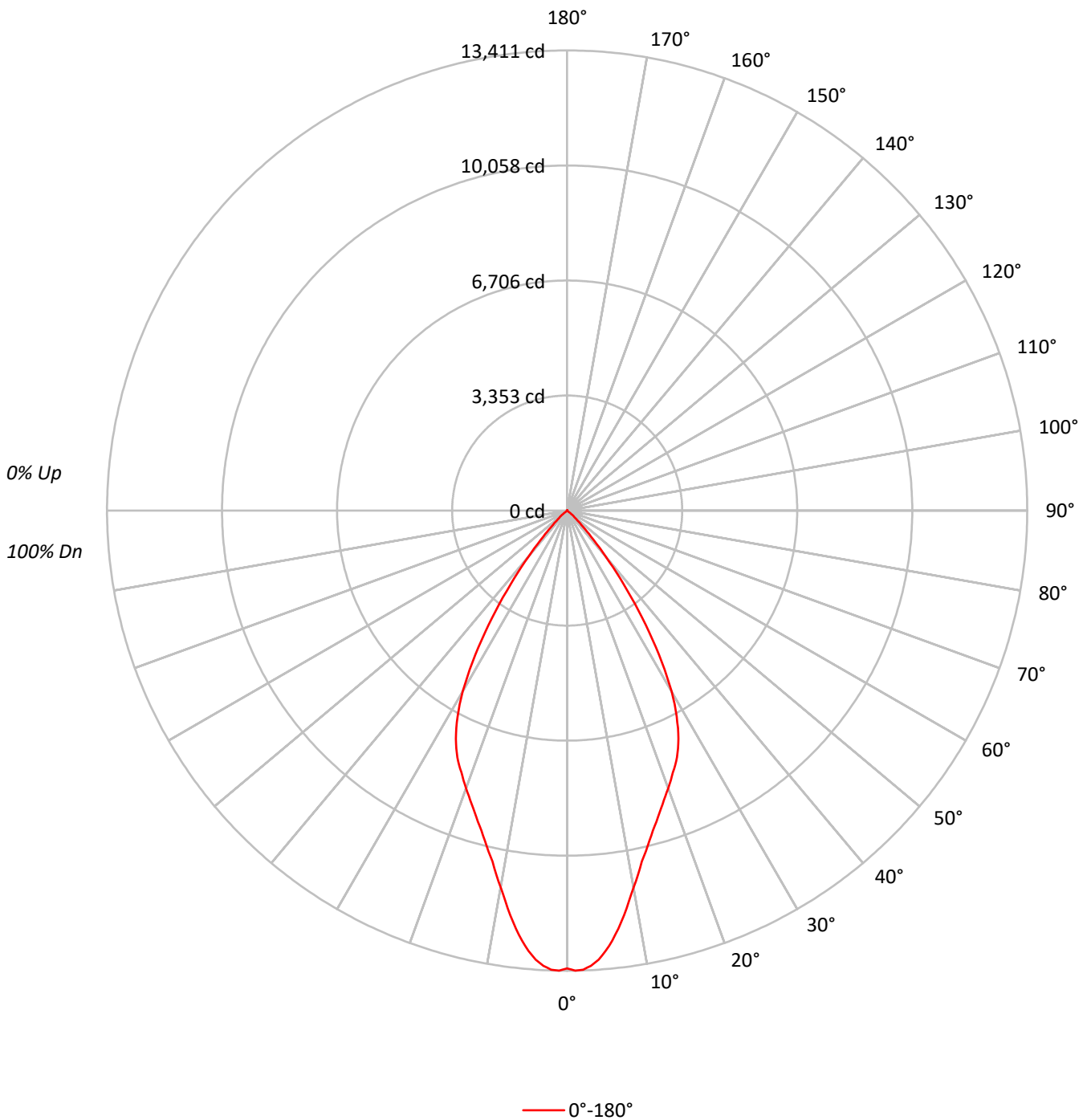
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	411393
5°	398816
10°	349282
15°	308368
20°	282569
25°	260182
30°	216553
35°	143838
40°	70006
45°	25354
50°	7628
55°	538
60°	0
65°	365
70°	0
75°	0
80°	888
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1171.8	11.4
10°-20°	2721.4	26.5
20°-30°	3452.5	33.6
30°-40°	2365.2	23.0
40°-50°	539.0	5.2
50°-60°	26.9	0.3
60°-70°	1.2	0.0
70°-80°	2.0	0.0
80°-90°	2.0	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°	7345.7	71.4
0°-40°	9710.9	94.4
0°-60°	10276.8	99.9
0°-90°	10282.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10282.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13341	
5°	12884	###
15°	9659	2721
25°	7647	3452
35°	3821	2365
45°	581	539
55°	10	27
65°	5	1
75°	0	2
85°	0	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13341.2
1°	13410.8
2°	13385.9
3°	13286.5
4°	13117.5
5°	12884.1
6°	12600.8
7°	12272.9
8°	11910.2
9°	11522.6
10°	11154.9
11°	10817.0
12°	10454.4
13°	10191.0
14°	9912.7
15°	9659.4
16°	9430.8
17°	9207.1
18°	8998.5
19°	8794.7
20°	8610.9
21°	8422.1
22°	8228.3
23°	8059.4
24°	7870.6
25°	7647.0
26°	7398.5
27°	7110.4
28°	6802.3
29°	6459.4
30°	6081.8
31°	5654.5
32°	5212.3
33°	4750.2
34°	4278.1
35°	3821.0
37.5°	2698.1
40°	1739.1
42.5°	1023.6
45°	581.4
47.5°	313.1
50°	159.0
52.5°	29.8
55°	10.0
57.5°	5.0



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	0.0
62.5°	0.0
65°	5.0
67.5°	0.0
70°	0.0
72.5°	5.0
75°	0.0
77.5°	0.0
80°	5.0
82.5°	0.0
85°	0.0
87.5°	5.0
90°	0.0

(END OF REPORT)