

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: P250783

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBM0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250783  
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 ER8B1759727 8LBM0MW  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12641.0 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

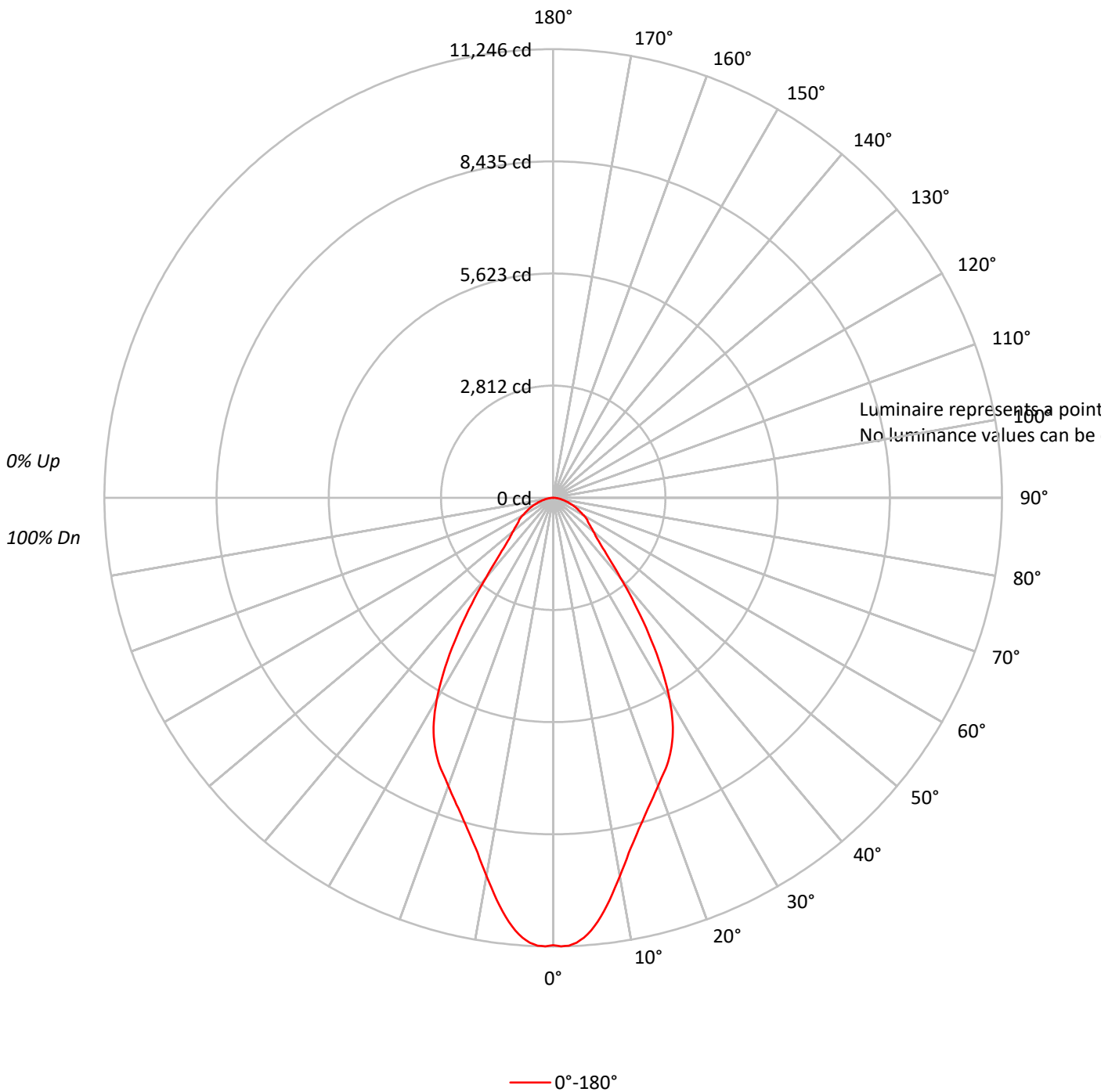
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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):**





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	996.5	7.9
10°-20°	2391.8	18.9
20°-30°	3169.6	25.1
30°-40°	2599.1	20.6
40°-50°	1384.3	11.0
50°-60°	974.3	7.7
60°-70°	671.9	5.3
70°-80°	349.9	2.8
80°-90°	103.5	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°	6558.0	51.9
0°-40°	9157.1	72.4
0°-60°	11515.7	91.1
0°-90°	12641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12641.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	11213	
5°	10888	997
15°	8481	2392
25°	6982	3170
35°	4180	2599
45°	1708	1384
55°	1072	974
65°	673	672
75°	333	350
85°	95	103
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	11213.2
1°	11246.1
2°	11231.5
3°	11165.6
4°	11052.3
5°	10887.7
6°	10682.9
7°	10437.9
8°	10174.5
9°	9892.9
10°	9622.3
11°	9362.6
12°	9099.3
13°	8879.8
14°	8671.4
15°	8481.3
16°	8302.0
17°	8137.4
18°	7983.8
19°	7830.2
20°	7683.9
21°	7541.3
22°	7417.0
23°	7288.9
24°	7139.0
25°	6981.7
26°	6802.6
27°	6601.4
28°	6374.6
29°	6122.3
30°	5833.3
31°	5529.8
32°	5211.7
33°	4871.5
34°	4531.4
35°	4180.2
37.5°	3350.0
40°	2625.9
42.5°	2073.7
45°	1708.0
47.5°	1466.6
50°	1316.6
52.5°	1185.0
55°	1071.6
57.5°	1002.1



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	885.0
62.5°	771.7
65°	672.9
67.5°	585.2
70°	490.0
72.5°	409.6
75°	332.8
77.5°	241.3
80°	197.5
82.5°	142.6
85°	95.1
87.5°	43.9
90°	0.0

(END OF REPORT)