

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: P249887

Luminaire Tested: **LD8B175D010 ER8B175835 8LBM0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175835 8LBM0H  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17800.1 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

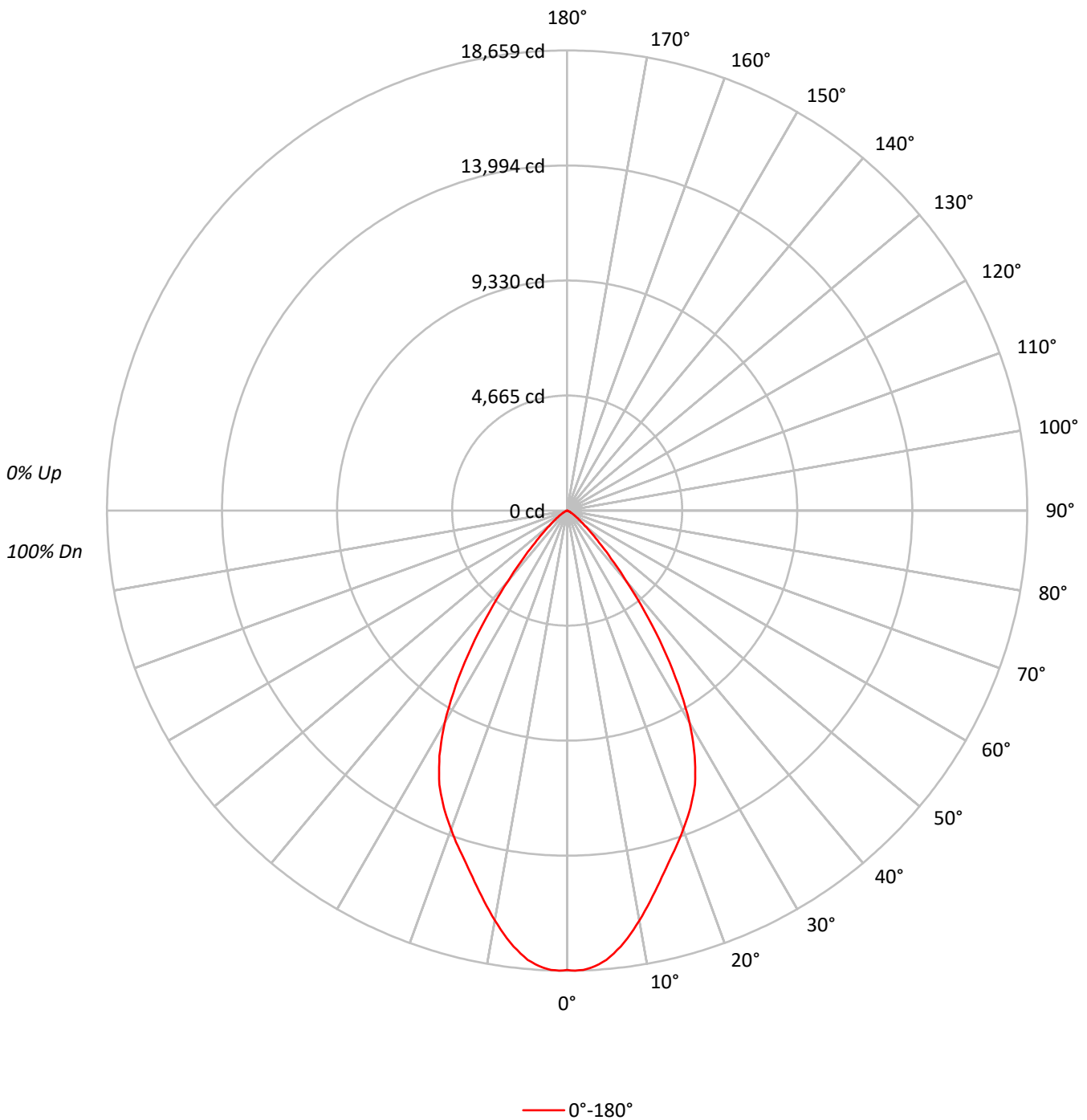
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

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

	0°
0°	574508
5°	566048
10°	528268
15°	484895
20°	451611
25°	417248
30°	353831
35°	254539
40°	149950
45°	80136
50°	41813
55°	23580
60°	13013
65°	7698
70°	3507
75°	1990
80°	994
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1698.5	9.5
10°-20°	4273.5	24.0
20°-30°	5547.8	31.2
30°-40°	4187.4	23.5
40°-50°	1532.2	8.6
50°-60°	428.3	2.4
60°-70°	112.6	0.6
70°-80°	19.0	0.1
80°-90°	0.8	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°	11519.8	64.7
0°-40°	15707.2	88.2
0°-60°	17667.7	99.3
0°-90°	17800.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17800.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18631	
5°	18287	###
15°	15189	4273
25°	12263	5548
35°	6762	4187
45°	1838	1532
55°	439	428
65°	106	113
75°	17	19
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	18630.9
1°	18658.7
2°	18636.4
3°	18564.3
4°	18442.1
5°	18286.7
6°	18059.1
7°	17809.3
8°	17520.6
9°	17204.2
10°	16871.1
11°	16538.0
12°	16193.8
13°	15844.0
14°	15510.9
15°	15189.0
16°	14883.6
17°	14589.4
18°	14322.9
19°	14045.3
20°	13762.2
22.5°	13057.2
25°	12263.3
27.5°	11214.1
30°	9937.2
32.5°	8399.4
35°	6761.7
37.5°	5162.9
40°	3725.1
42.5°	2637.0
45°	1837.6
47.5°	1293.5
50°	871.6
52.5°	638.4
55°	438.6
57.5°	316.4
60°	211.0
62.5°	155.4
65°	105.5
67.5°	72.2
70°	38.9
72.5°	27.8
75°	16.7
77.5°	5.6
80°	5.6



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)