

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: P250013

Luminaire Tested: **LD8B175D010 ER8B175940 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175940 8LBN0WMH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13961.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

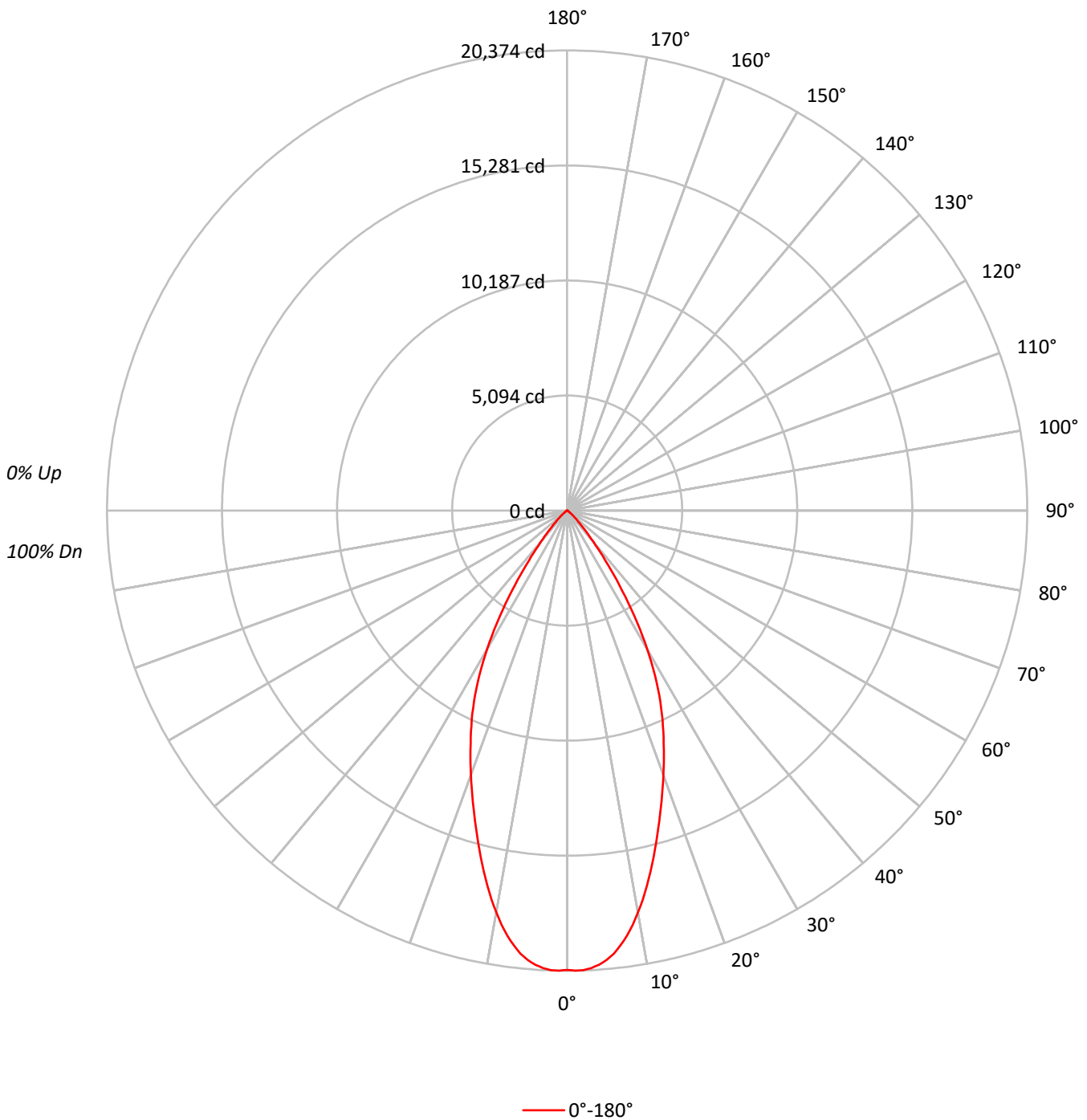
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	80	76	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	66	63	80	72	66	62	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	58	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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

	0°
0°	627041
5°	618308
10°	565664
15°	485668
20°	408984
25°	337910
30°	253463
35°	151081
40°	71982
45°	31359
50°	14219
55°	6263
60°	3596
65°	2131
70°	2200
75°	0
80°	870
85°	3432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1845.6	13.2
10°-20°	4234.5	30.3
20°-30°	4498.6	32.2
30°-40°	2566.7	18.4
40°-50°	636.4	4.6
50°-60°	125.1	0.9
60°-70°	37.8	0.3
70°-80°	9.0	0.1
80°-90°	7.3	0.1
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°	10578.7	75.8
0°-40°	13145.4	94.2
0°-60°	13907.0	99.6
0°-90°	13961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	20334	
5°	19975	###
15°	15213	4235
25°	9932	4499
35°	4013	2567
45°	719	636
55°	116	125
65°	29	38
75°	0	9
85°	10	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	20334.5
1°	20373.5
2°	20358.9
3°	20286.0
4°	20159.7
5°	19975.0
6°	19732.2
7°	19396.8
8°	19012.9
9°	18561.2
10°	18065.4
11°	17540.8
12°	16977.0
13°	16403.7
14°	15815.8
15°	15213.2
16°	14644.8
17°	14071.5
18°	13532.0
19°	12983.1
20°	12463.2
22.5°	11175.4
25°	9931.5
27.5°	8595.5
30°	7118.4
32.5°	5534.2
35°	4013.4
37.5°	2764.7
40°	1788.2
42.5°	1132.2
45°	719.1
47.5°	471.4
50°	296.4
52.5°	179.9
55°	116.5
57.5°	92.4
60°	58.3
62.5°	53.4
65°	29.2
67.5°	29.2
70°	24.4
72.5°	14.6
75°	0.0
77.5°	4.9
80°	4.9



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**CANDELA DISTRIBUTION (continued):**

	0°
82.5°	9.7
85°	9.7
87.5°	4.9
90°	0.0

(END OF REPORT)