

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: P250321

Luminaire Tested: **LD8B175D010 ER8B175850 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B175D010 ER8B175850 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14548.0 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

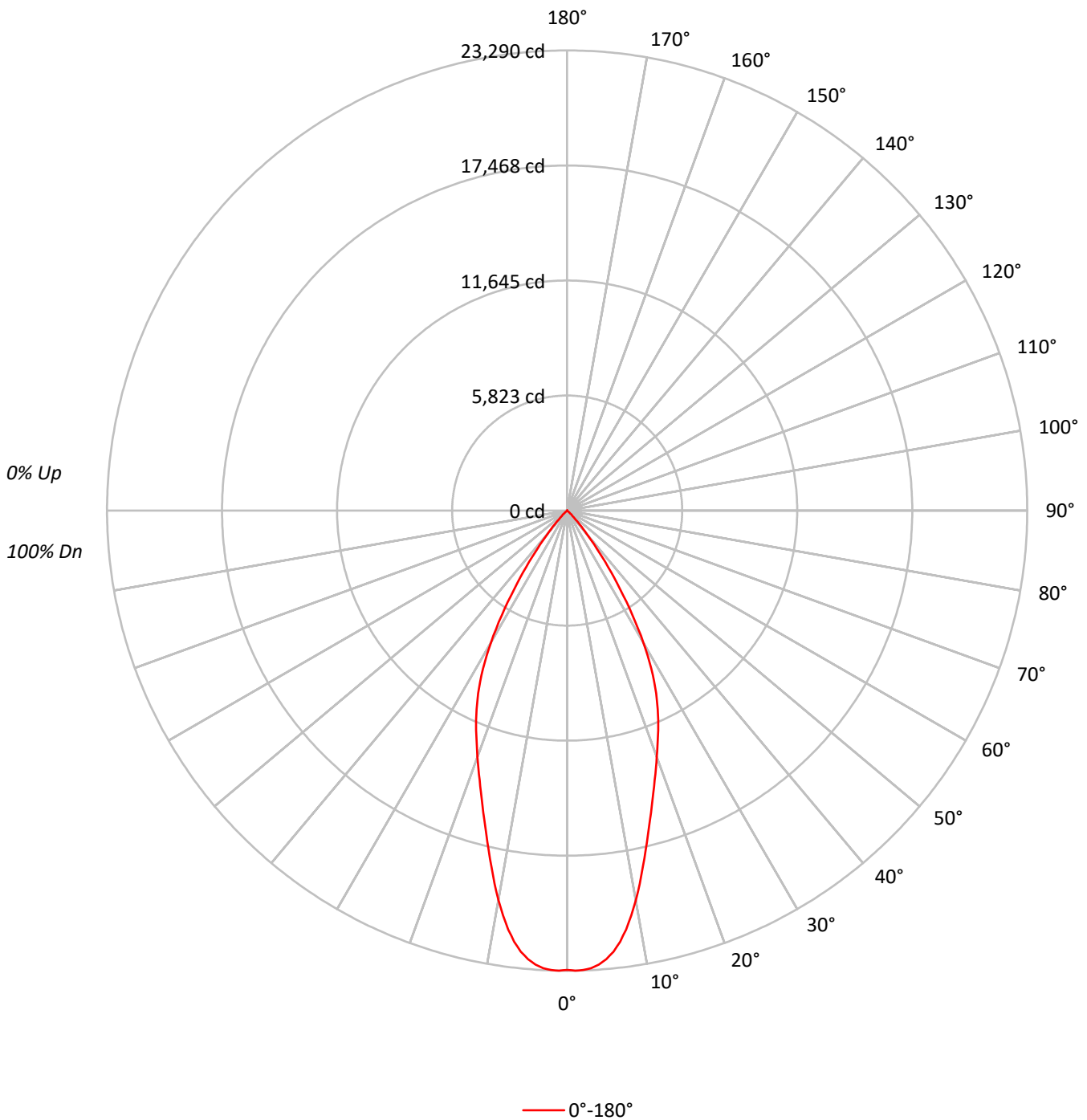
Input Watts (W): 177.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	107	105	105	104	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	81	76	72	80	75	72	79	75	71	77	74	71	70
7	86	78	72	68	85	77	72	68	76	71	68	75	71	67	74	70	67	66
8	83	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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

	0°
0°	716830
5°	705376
10°	626710
15°	516982
20°	435400
25°	367239
30°	274966
35°	155614
40°	61528
45°	16519
50°	3166
55°	0
60°	456
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2086.8	14.3
10°-20°	4535.6	31.2
20°-30°	4869.3	33.5
30°-40°	2631.7	18.1
40°-50°	410.6	2.8
50°-60°	11.2	0.1
60°-70°	2.8	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	11491.7	79.0
0°-40°	14123.4	97.1
0°-60°	14545.2	100.0
0°-90°	14548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14548.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	23246	
5°	22788	###
15°	16194	4536
25°	10794	4869
35°	4134	2632
45°	379	411
55°	0	11
65°	0	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	23246.3
1°	23290.4
2°	23268.5
3°	23188.8
4°	23035.7
5°	22787.8
6°	22446.4
7°	21987.2
8°	21412.3
9°	20750.7
10°	20015.0
11°	19243.3
12°	18442.8
13°	17642.9
14°	16899.8
15°	16194.1
16°	15546.2
17°	14920.2
18°	14337.9
19°	13792.7
20°	13268.2
21°	12758.6
22°	12277.9
23°	11798.3
24°	11296.0
25°	10793.5
26°	10283.8
27°	9701.9
28°	9061.1
29°	8406.9
30°	7722.3
31°	6987.3
32°	6251.6
33°	5524.0
34°	4789.1
35°	4133.8
37.5°	2641.9
40°	1528.5
42.5°	815.4
45°	378.8
47.5°	204.2
50°	66.0
52.5°	7.4
55°	0.0
57.5°	7.4



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**CANDELA DISTRIBUTION (continued):**

	0°
60°	7.4
62.5°	0.0
65°	0.0
67.5°	7.4
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)