

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: P251113

Luminaire Tested: **LD8B70D010 ER8B70850 8LBW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P200903)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70850 8LBW0WH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7874.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.11  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

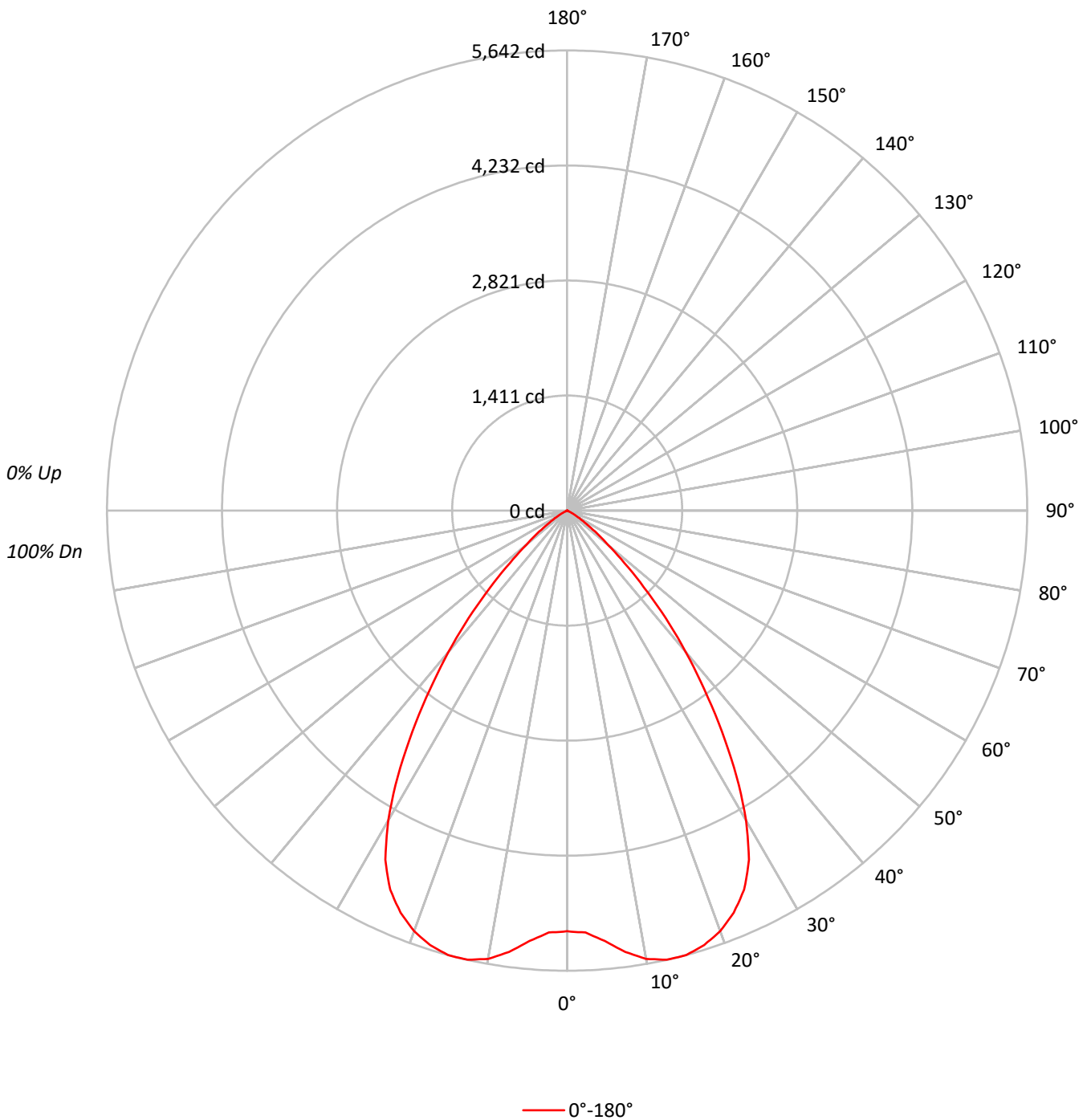
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251113

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBW0WH

### Luminous Intensity Polar Plot





TEST NUMBER: P251113

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBW0WH

**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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

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

	0°
0°	159060
5°	163936
10°	174737
15°	180125
20°	180117
25°	174612
30°	156281
35°	124474
40°	90950
45°	58092
50°	31417
55°	16150
60°	7018
65°	1445
70°	992
75°	0
80°	320
85°	0



TEST NUMBER: P251113

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBW0WH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.4	6.5
10°-20°	1586.2	20.1
20°-30°	2327.1	29.6
30°-40°	2055.7	26.1
40°-50°	1053.0	13.4
50°-60°	294.4	3.7
60°-70°	37.6	0.5
70°-80°	3.8	0.0
80°-90°	0.7	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°	4428.7	56.2
0°-40°	6484.4	82.4
0°-60°	7831.8	99.5
0°-90°	7874.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7874.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5158	
5°	5296	515
15°	5642	1586
25°	5132	2327
35°	3307	2056
45°	1332	1053
55°	300	294
65°	20	38
75°	0	4
85°	0	1
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0



TEST NUMBER: P251113

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBW0WH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5158.2
2.5°	5178.0
5°	5296.1
7.5°	5458.0
10°	5580.5
12.5°	5640.2
15°	5642.3
17.5°	5585.5
20°	5488.8
22.5°	5335.7
25°	5132.0
27.5°	4828.1
30°	4389.1
32.5°	3868.7
35°	3306.6
37.5°	2758.9
40°	2259.4
42.5°	1787.9
45°	1332.1
47.5°	950.7
50°	654.9
52.5°	457.7
55°	300.4
57.5°	190.8
60°	113.8
62.5°	59.1
65°	19.8
67.5°	12.9
70°	11.0
72.5°	6.4
75°	0.0
77.5°	1.8
80°	1.8
82.5°	1.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



TEST NUMBER: P251113

CATALOG NUMBER: LD8B70D010 ER8B70850 8LBW0WH

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)