

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: P246343

Luminaire Tested: **LD8B15D010 ER8B15850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B15850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 928.0 lumens  
Efficiency: 49.2%  
Efficacy: 64.4 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

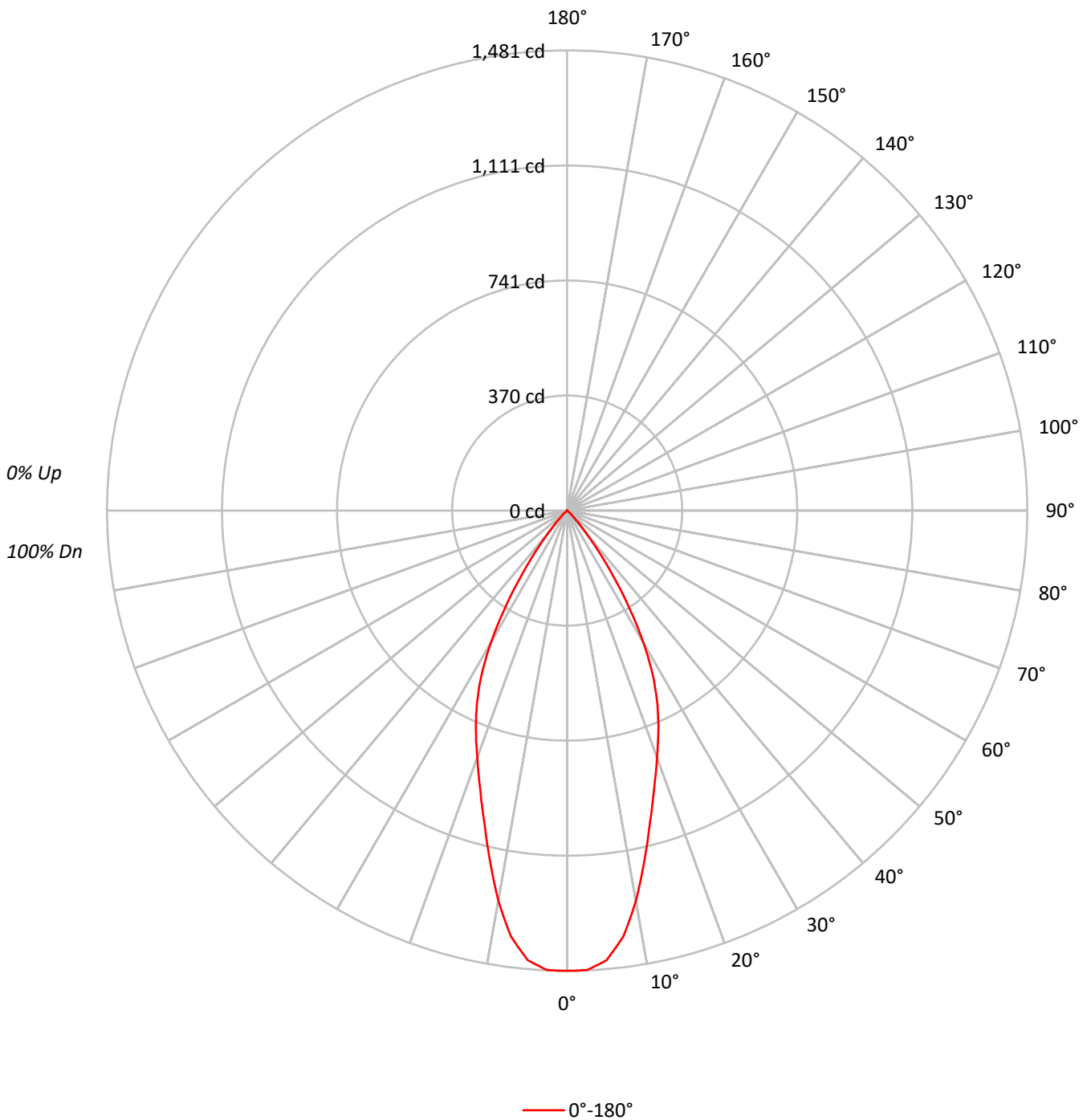
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	59	59	59	59	57	57	57	57	55	55	55		52	52	52		50	50	50	49
1	56	55	54	53	55	54	53	52	52	51	50		50	49	49		48	48	47	46
2	54	51	49	48	52	50	49	47	49	48	46		47	46	45		46	45	44	44
3	51	48	46	44	50	48	45	44	46	45	43		45	44	42		44	43	42	41
4	49	45	43	41	48	45	42	41	44	42	40		43	41	40		42	40	39	39
5	47	43	40	38	46	42	40	38	41	39	38		41	39	37		40	38	37	36
6	44	40	38	36	44	40	37	36	39	37	35		39	37	35		38	36	35	34
7	42	38	36	34	42	38	35	33	37	35	33		37	35	33		36	34	33	32
8	41	36	34	32	40	36	33	32	35	33	31		35	33	31		35	33	31	31
9	39	34	32	30	38	34	32	30	34	31	30		33	31	30		33	31	30	29
10	37	33	30	28	37	33	30	28	32	30	28		32	30	28		31	30	28	27

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

	0°
0°	45675
5°	44955
10°	39935
15°	32952
20°	27745
25°	23402
30°	17529
35°	9915
40°	3917
45°	1047
50°	211
55°	0
60°	31
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	132.9	14.3	7.0	0°	1481	
10°-20°	289.6	31.2	15.3	5°	1452	133
20°-30°	310.3	33.4	16.4	15°	1032	290
30°-40°	168.2	18.1	8.9	25°	688	310
40°-50°	26.1	2.8	1.4	35°	263	168
50°-60°	0.8	0.1	0.0	45°	24	26
60°-70°	0.2	0.0	0.0	55°	0	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	732.8	79.0	38.8	165°	0	0
0°-40°	901.0	97.1	47.7	175°	0	0
0°-60°	927.9	100.0	49.2	180°	0	0
0°-90°	928.0	100.0	49.2			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	928.0	100.0	49.2			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1481.2
2.5°	1480.3
5°	1452.3
7.5°	1383.0
10°	1275.4
12.5°	1150.1
15°	1032.2
17.5°	932.5
20°	845.5
22.5°	767.4
25°	687.8
27.5°	597.9
30°	492.3
32.5°	375.4
35°	263.4
37.5°	168.6
40°	97.3
42.5°	52.1
45°	24.0
47.5°	12.8
50°	4.4
52.5°	0.5
55°	0.0
57.5°	0.5
60°	0.5
62.5°	0.0
65°	0.0
67.5°	0.5
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
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



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**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)