

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: P246325

Luminaire Tested: **LD8B15D010 ER8B15830 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246325  
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 ER8B15830 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 881.0 lumens  
Efficiency: 46.7%  
Efficacy: 61.2 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

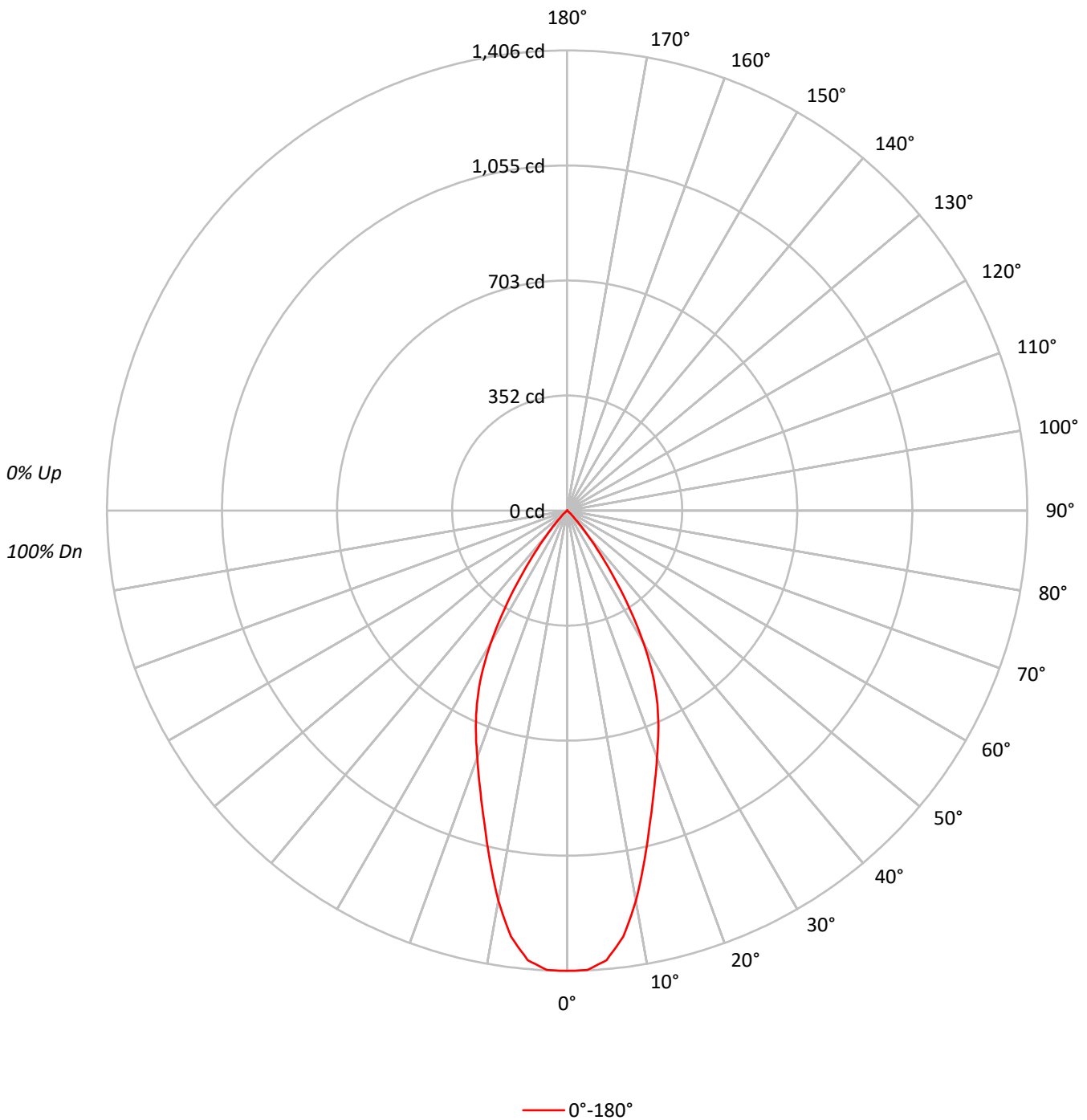
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	56	56	56	56	54	54	54	54	52	52	52	50	50	50	48	48	48	47
1	53	52	51	50	52	51	50	49	49	48	48	47	47	46	46	45	45	44
2	51	49	47	45	50	48	46	45	46	45	44	45	44	43	44	43	42	41
3	49	46	44	42	48	45	43	42	44	42	41	43	41	40	42	41	40	39
4	46	43	41	39	45	43	40	39	42	40	38	41	39	38	40	38	37	37
5	44	41	38	36	43	40	38	36	39	37	36	39	37	35	38	36	35	34
6	42	38	36	34	42	38	36	34	37	35	34	37	35	33	36	34	33	33
7	40	36	34	32	40	36	34	32	35	33	32	35	33	31	34	33	31	31
8	39	34	32	30	38	34	32	30	34	31	30	33	31	30	33	31	30	29
9	37	33	30	28	36	32	30	28	32	30	28	32	30	28	31	29	28	28
10	35	31	29	27	35	31	29	27	31	28	27	30	28	27	30	28	27	26

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

	0°
0°	43362
5°	42676
10°	37913
15°	31282
20°	26341
25°	22218
30°	16643
35°	9411
40°	3715
45°	994
50°	201
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°	126.2	14.3	6.7	0°	1406	
10°-20°	275.0	31.2	14.6	5°	1379	126
20°-30°	294.6	33.4	15.6	15°	980	275
30°-40°	159.6	18.1	8.5	25°	653	295
40°-50°	24.8	2.8	1.3	35°	250	160
50°-60°	0.7	0.1	0.0	45°	23	25
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°	695.7	79.0	36.9	165°	0	0
0°-40°	855.3	97.1	45.3	175°	0	0
0°-60°	880.8	100.0	46.7	180°	0	0
0°-90°	881.0	100.0	46.7			
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°	881.0	100.0	46.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1406.2
2.5°	1405.3
5°	1378.7
7.5°	1313.0
10°	1210.8
12.5°	1091.9
15°	979.9
17.5°	885.3
20°	802.7
22.5°	728.5
25°	653.0
27.5°	567.6
30°	467.4
32.5°	356.4
35°	250.0
37.5°	160.0
40°	92.3
42.5°	49.4
45°	22.8
47.5°	12.1
50°	4.2
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)