

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: P246373

Luminaire Tested: **LD8B15D010 ER8B15950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246373  
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 ER8B15950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 845.0 lumens  
Efficiency: 44.8%  
Efficacy: 58.7 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

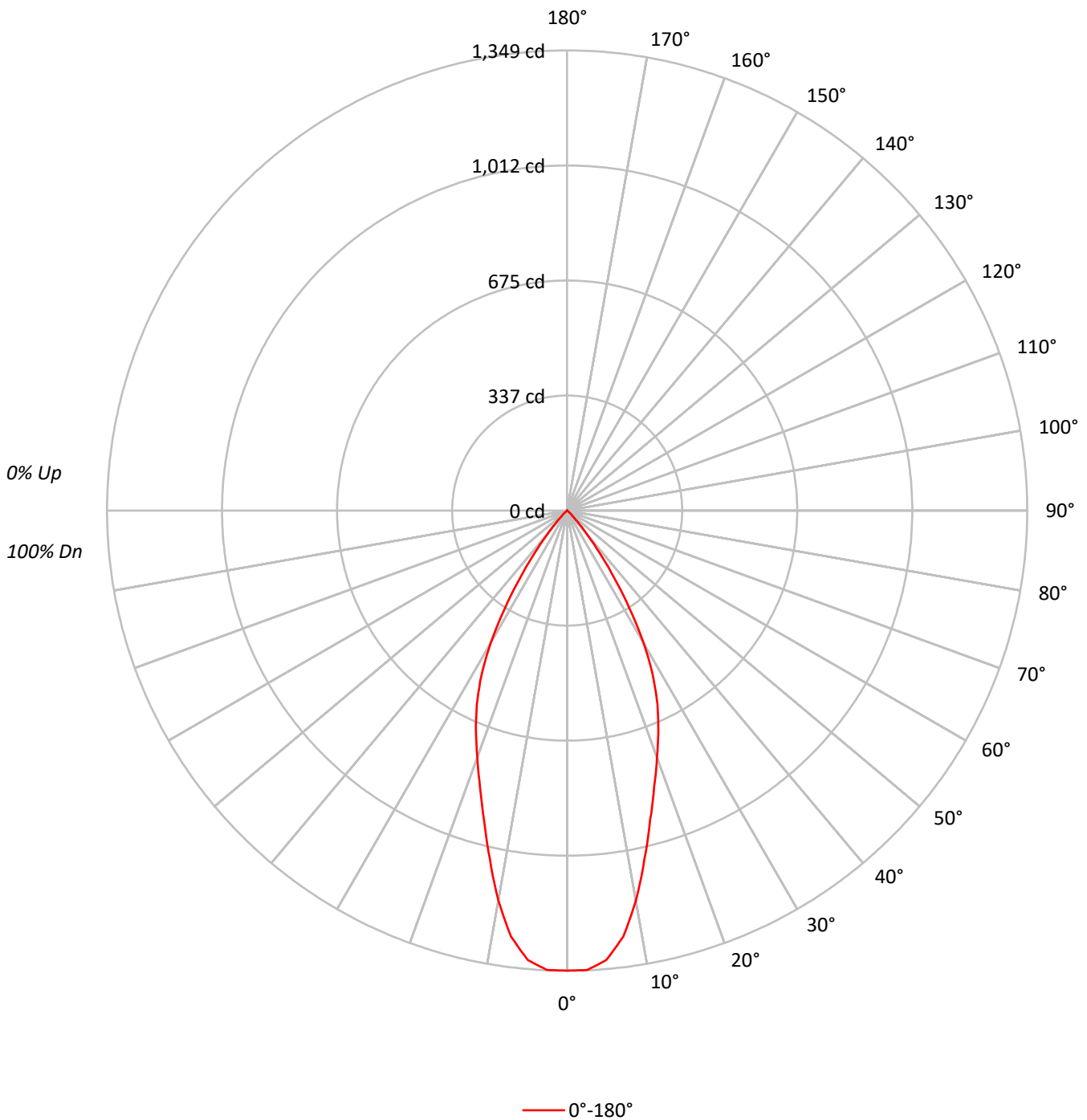
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	53	53	53	53	52	52	52	52	50	50	50	48	48	48	46	46	46	45
1	51	50	49	48	50	49	48	47	47	46	46	45	45	44	44	43	43	42
2	49	47	45	44	48	46	44	43	45	43	42	43	42	41	42	41	40	40
3	47	44	42	40	46	43	41	40	42	41	39	41	40	39	40	39	38	37
4	44	41	39	37	44	41	39	37	40	38	37	39	37	36	38	37	36	35
5	42	39	37	35	42	39	36	35	38	36	34	37	35	34	36	35	34	33
6	40	37	34	33	40	36	34	32	36	34	32	35	33	32	35	33	32	31
7	39	35	32	31	38	35	32	30	34	32	30	33	32	30	33	31	30	29
8	37	33	31	29	36	33	30	29	32	30	29	32	30	29	31	30	28	28
9	35	31	29	27	35	31	29	27	31	29	27	30	28	27	30	28	27	26
10	34	30	27	26	33	30	27	26	29	27	26	29	27	26	29	27	26	25

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

	0°
0°	41592
5°	40934
10°	36363
15°	30005
20°	25265
25°	21309
30°	15962
35°	9027
40°	3566
45°	955
50°	192
55°	0
60°	25
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°	121.0	14.3	6.4	0°	1349	
10°-20°	263.7	31.2	14.0	5°	1322	121
20°-30°	282.5	33.4	15.0	15°	940	264
30°-40°	153.1	18.1	8.1	25°	626	283
40°-50°	23.8	2.8	1.3	35°	240	153
50°-60°	0.7	0.1	0.0	45°	22	24
60°-70°	0.1	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°	667.3	79.0	35.4	165°	0	0
0°-40°	820.4	97.1	43.5	175°	0	0
0°-60°	844.8	100.0	44.8	180°	0	0
0°-90°	845.0	100.0	44.8			
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°	845.0	100.0	44.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1348.8
2.5°	1347.9
5°	1322.4
7.5°	1259.3
10°	1161.3
12.5°	1047.2
15°	939.9
17.5°	849.1
20°	769.9
22.5°	698.8
25°	626.3
27.5°	544.4
30°	448.3
32.5°	341.8
35°	239.8
37.5°	153.5
40°	88.6
42.5°	47.4
45°	21.9
47.5°	11.6
50°	4.0
52.5°	0.4
55°	0.0
57.5°	0.4
60°	0.4
62.5°	0.0
65°	0.0
67.5°	0.4
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
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)