

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: P246379

Luminaire Tested: **LD8B15D010 ER8B159727 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246379  
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 ER8B159727 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 638.0 lumens  
Efficiency: 33.8%  
Efficacy: 44.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

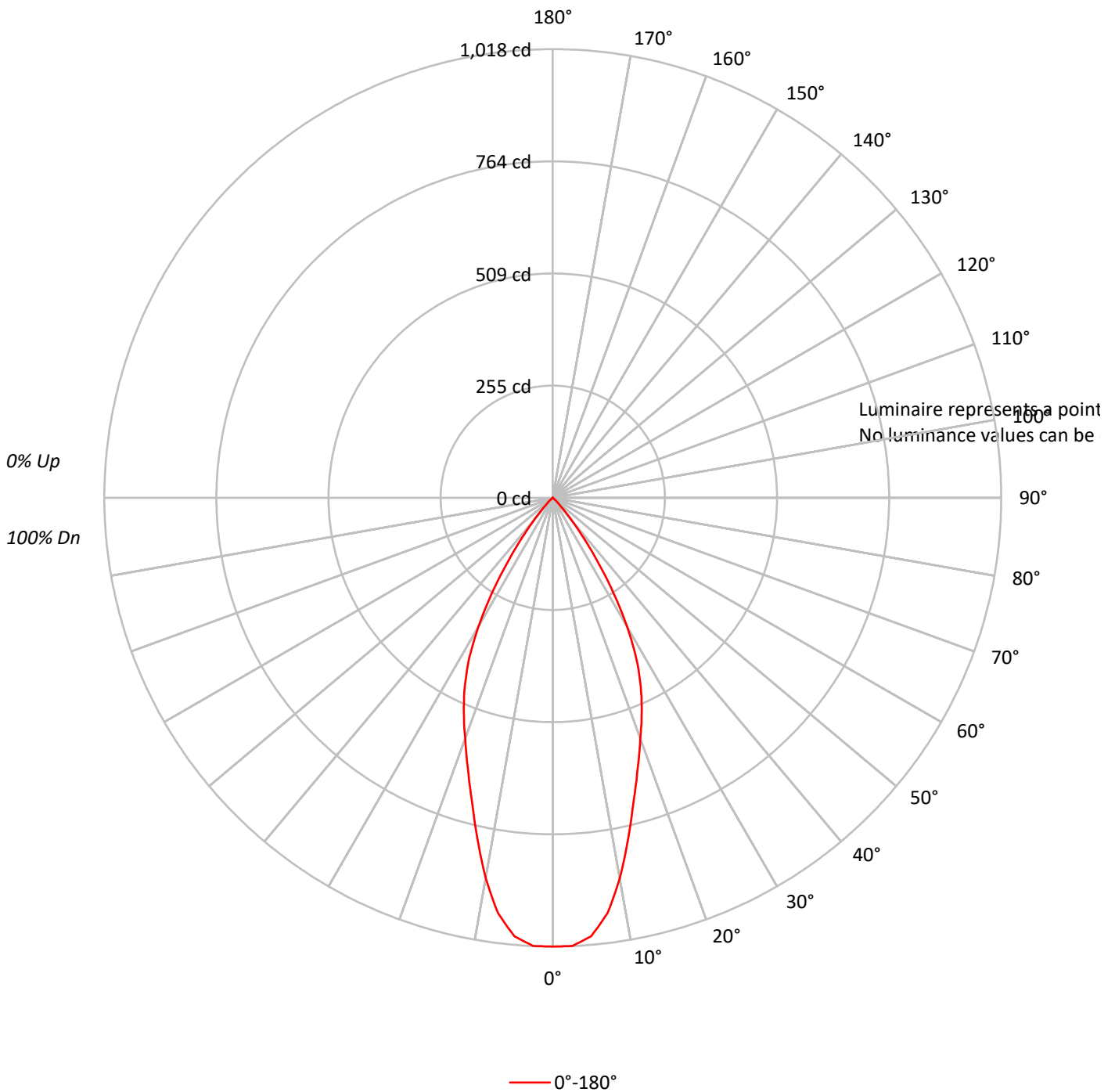
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	40	40	40	40	39	39	39	39	38	38	38	36	36	36	35	35	35	34
1	39	38	37	36	38	37	36	36	36	35	34	34	34	33	33	33	33	32
2	37	35	34	33	36	35	34	33	34	33	32	33	32	31	32	31	31	30
3	35	33	32	30	34	33	31	30	32	31	30	31	30	29	30	29	29	28
4	34	31	29	28	33	31	29	28	30	29	28	29	28	27	29	28	27	27
5	32	29	28	26	31	29	27	26	28	27	26	28	27	26	27	26	25	25
6	31	28	26	25	30	28	26	24	27	25	24	27	25	24	26	25	24	24
7	29	26	24	23	29	26	24	23	26	24	23	25	24	23	25	24	23	22
8	28	25	23	22	28	25	23	22	24	23	22	24	23	22	24	22	21	21
9	27	24	22	21	26	24	22	21	23	22	20	23	21	20	23	21	20	20
10	26	23	21	19	25	22	21	19	22	21	19	22	20	19	22	20	19	19

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	91.4	14.3	4.8	0°	1018	
10°-20°	199.1	31.2	10.6	5°	998	91
20°-30°	213.3	33.4	11.3	15°	710	199
30°-40°	115.6	18.1	6.1	25°	473	213
40°-50°	18.0	2.8	1.0	35°	181	116
50°-60°	0.5	0.1	0.0	45°	16	18
60°-70°	0.1	0.0	0.0	55°	0	0
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°	503.8	79.0	26.7	165°	0	0
0°-40°	619.4	97.1	32.8	175°	0	0
0°-60°	637.9	100.0	33.8	180°	0	0
0°-90°	638.0	100.0	33.8			
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°	638.0	100.0	33.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1018.3
2.5°	1017.7
5°	998.4
7.5°	950.8
10°	876.8
12.5°	790.7
15°	709.6
17.5°	641.1
20°	581.3
22.5°	527.6
25°	472.9
27.5°	411.1
30°	338.5
32.5°	258.1
35°	181.1
37.5°	115.9
40°	66.9
42.5°	35.8
45°	16.5
47.5°	8.8
50°	3.0
52.5°	0.3
55°	0.0
57.5°	0.3
60°	0.3
62.5°	0.0
65°	0.0
67.5°	0.3
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)