

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: P246384

Luminaire Tested: **LSR8B10D010 EC8B109730 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246384  
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: LSR8B10D010 EC8B109730 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 498.0 lumens  
Efficiency: 26.4%  
Efficacy: 48.8 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

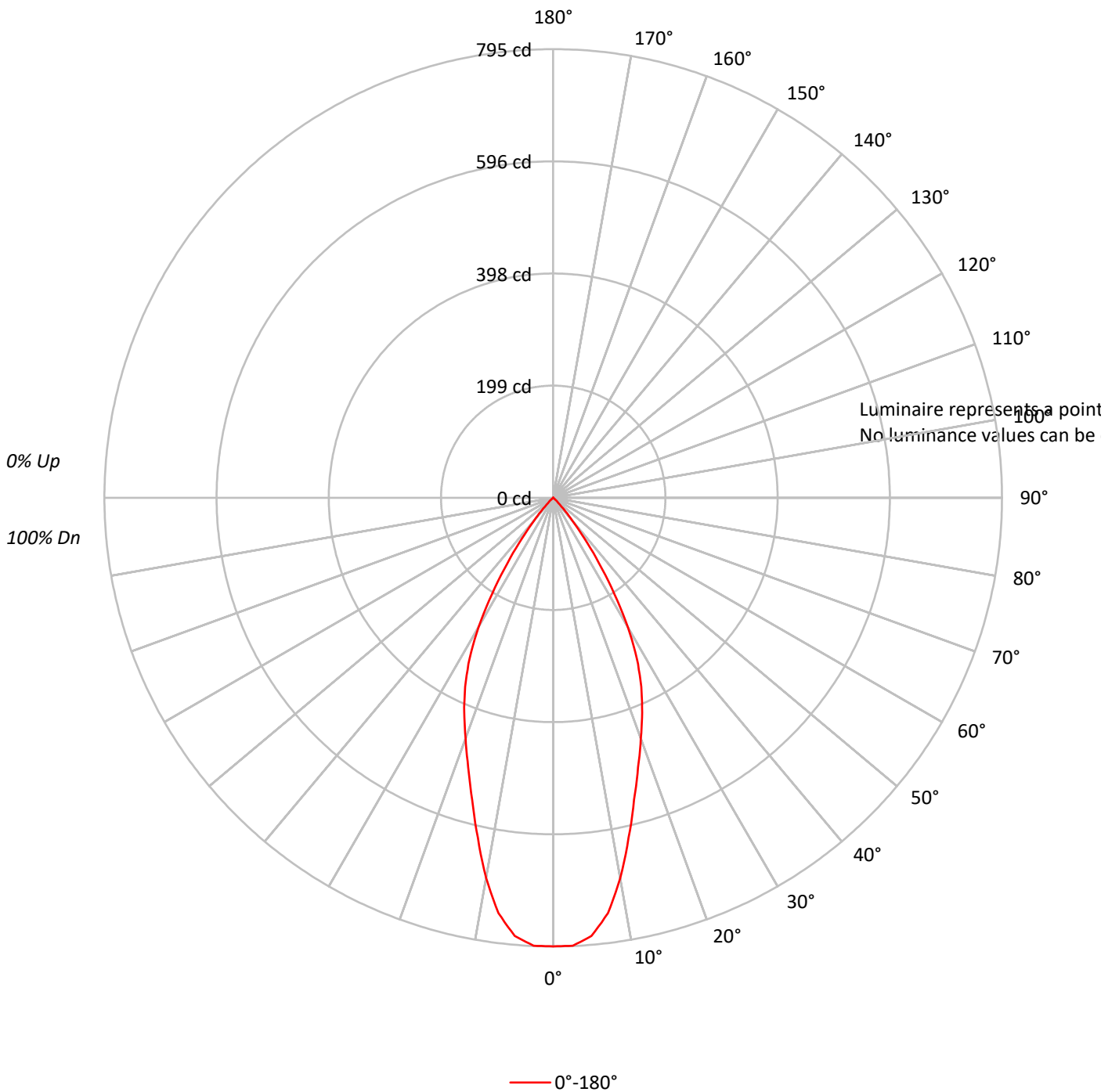
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	31	31	31	31	31	31	31	31	29	29	29	28	28	28	27	27	27	26
1	30	29	29	28	29	29	28	28	28	27	27	27	26	26	26	26	25	25
2	29	28	27	26	28	27	26	25	26	26	25	25	25	24	25	24	24	23
3	27	26	25	24	27	25	24	23	25	24	23	24	23	23	24	23	22	22
4	26	24	23	22	26	24	23	22	23	22	22	23	22	21	22	22	21	21
5	25	23	22	20	25	23	21	20	22	21	20	22	21	20	21	21	20	19
6	24	22	20	19	23	21	20	19	21	20	19	21	20	19	20	19	19	18
7	23	21	19	18	22	20	19	18	20	19	18	20	19	18	19	18	18	17
8	22	19	18	17	21	19	18	17	19	18	17	19	18	17	19	18	17	16
9	21	18	17	16	21	18	17	16	18	17	16	18	17	16	18	17	16	16
10	20	18	16	15	20	17	16	15	17	16	15	17	16	15	17	16	15	15

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	71.3	14.3	3.8	0°	795	
10°-20°	155.4	31.2	8.2	5°	779	71
20°-30°	166.5	33.4	8.8	15°	554	155
30°-40°	90.2	18.1	4.8	25°	369	167
40°-50°	14.0	2.8	0.7	35°	141	90
50°-60°	0.4	0.1	0.0	45°	13	14
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°	393.3	79.0	20.8	165°	0	0
0°-40°	483.5	97.1	25.6	175°	0	0
0°-60°	497.9	100.0	26.4	180°	0	0
0°-90°	498.0	100.0	26.4			
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°	498.0	100.0	26.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	794.9
2.5°	794.4
5°	779.3
7.5°	742.2
10°	684.4
12.5°	617.2
15°	553.9
17.5°	500.4
20°	453.7
22.5°	411.8
25°	369.1
27.5°	320.9
30°	264.2
32.5°	201.4
35°	141.3
37.5°	90.5
40°	52.2
42.5°	27.9
45°	12.9
47.5°	6.8
50°	2.4
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)