

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: P245658

Luminaire Tested: **LSR8B10D010 EC8B109727 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B10D010 EC8B109727 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 653.0 lumens  
Efficiency: 29.9%  
Efficacy: 64.0 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

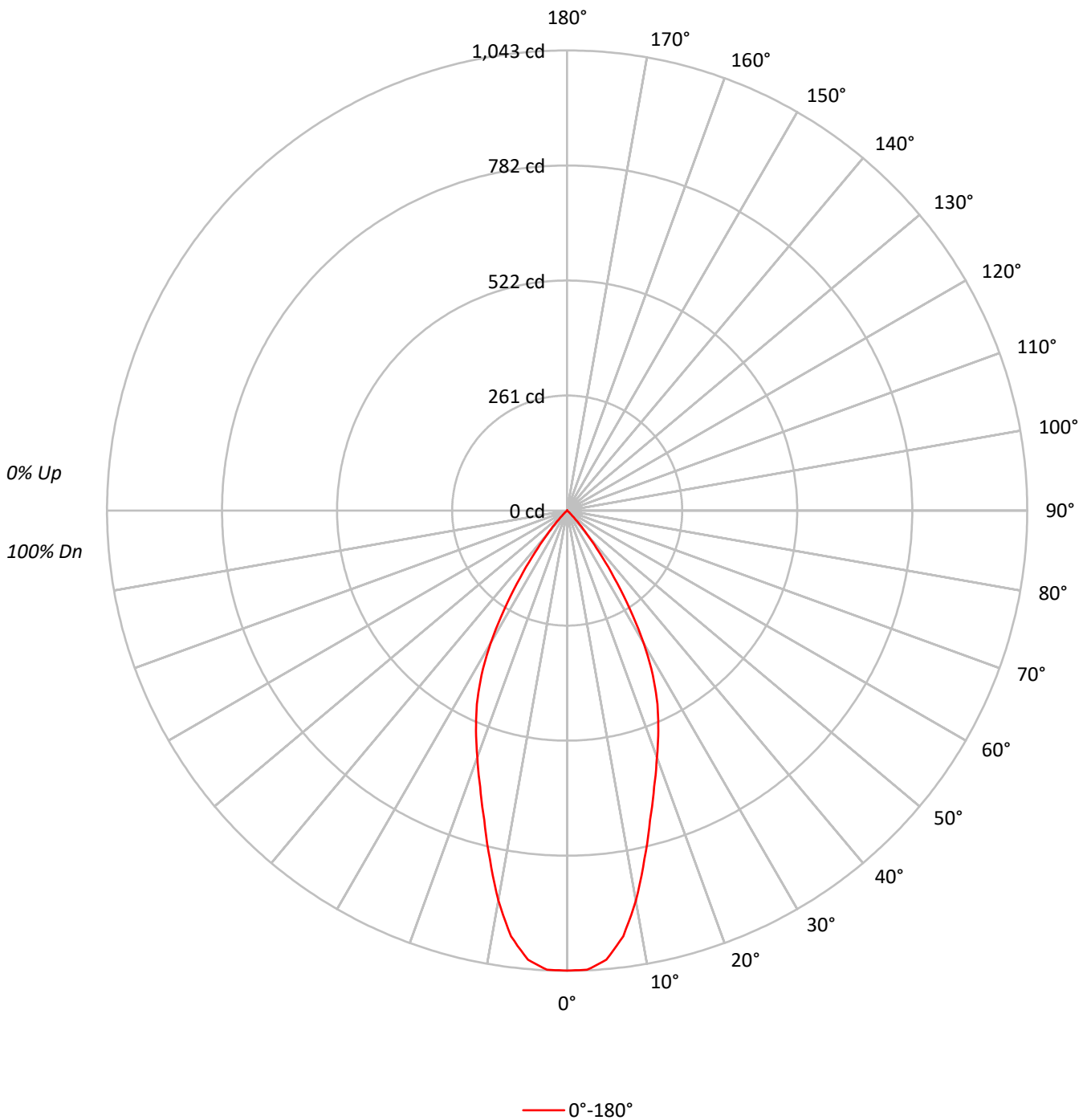
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	36	36	36	36	35	35	35	35	33	33	33	32	32	32	31	31	31	30
1	34	33	33	32	33	33	32	31	31	31	31	30	30	30	29	29	29	28
2	33	31	30	29	32	31	30	29	30	29	28	29	28	28	28	28	27	27
3	31	29	28	27	30	29	28	27	28	27	26	27	27	26	27	26	25	25
4	30	28	26	25	29	27	26	25	27	25	24	26	25	24	25	25	24	23
5	28	26	24	23	28	26	24	23	25	24	23	25	24	23	24	23	23	22
6	27	25	23	22	27	24	23	22	24	23	22	23	22	21	23	22	21	21
7	26	23	22	20	25	23	21	20	23	21	20	22	21	20	22	21	20	20
8	25	22	20	19	24	22	20	19	22	20	19	21	20	19	21	20	19	19
9	24	21	19	18	23	21	19	18	21	19	18	20	19	18	20	19	18	18
10	23	20	18	17	22	20	18	17	20	18	17	19	18	17	19	18	17	17

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

	0°
0°	32150
5°	31635
10°	28109
15°	23190
20°	19522
25°	16471
30°	12331
35°	6975
40°	2753
45°	741
50°	144
55°	0
60°	19
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°	93.5	14.3	4.3	0°	1043	
10°-20°	203.8	31.2	9.3	5°	1022	94
20°-30°	218.3	33.4	10.0	15°	726	204
30°-40°	118.3	18.1	5.4	25°	484	218
40°-50°	18.4	2.8	0.8	35°	185	118
50°-60°	0.5	0.1	0.0	45°	17	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°	515.7	79.0	23.6	165°	0	0
0°-40°	634.0	97.1	29.0	175°	0	0
0°-60°	652.9	100.0	29.9	180°	0	0
0°-90°	653.0	100.0	29.9			
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°	653.0	100.0	29.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1042.6
2.5°	1041.7
5°	1022.0
7.5°	973.2
10°	897.7
12.5°	809.2
15°	726.4
17.5°	656.2
20°	594.9
22.5°	540.0
25°	484.1
27.5°	420.7
30°	346.3
32.5°	264.1
35°	185.3
37.5°	118.7
40°	68.4
42.5°	36.5
45°	17.0
47.5°	9.3
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)