

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: P246372

Luminaire Tested: **LSR8B10D010 EC8B10950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246372  
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 EC8B10950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 624.0 lumens  
Efficiency: 33.1%  
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

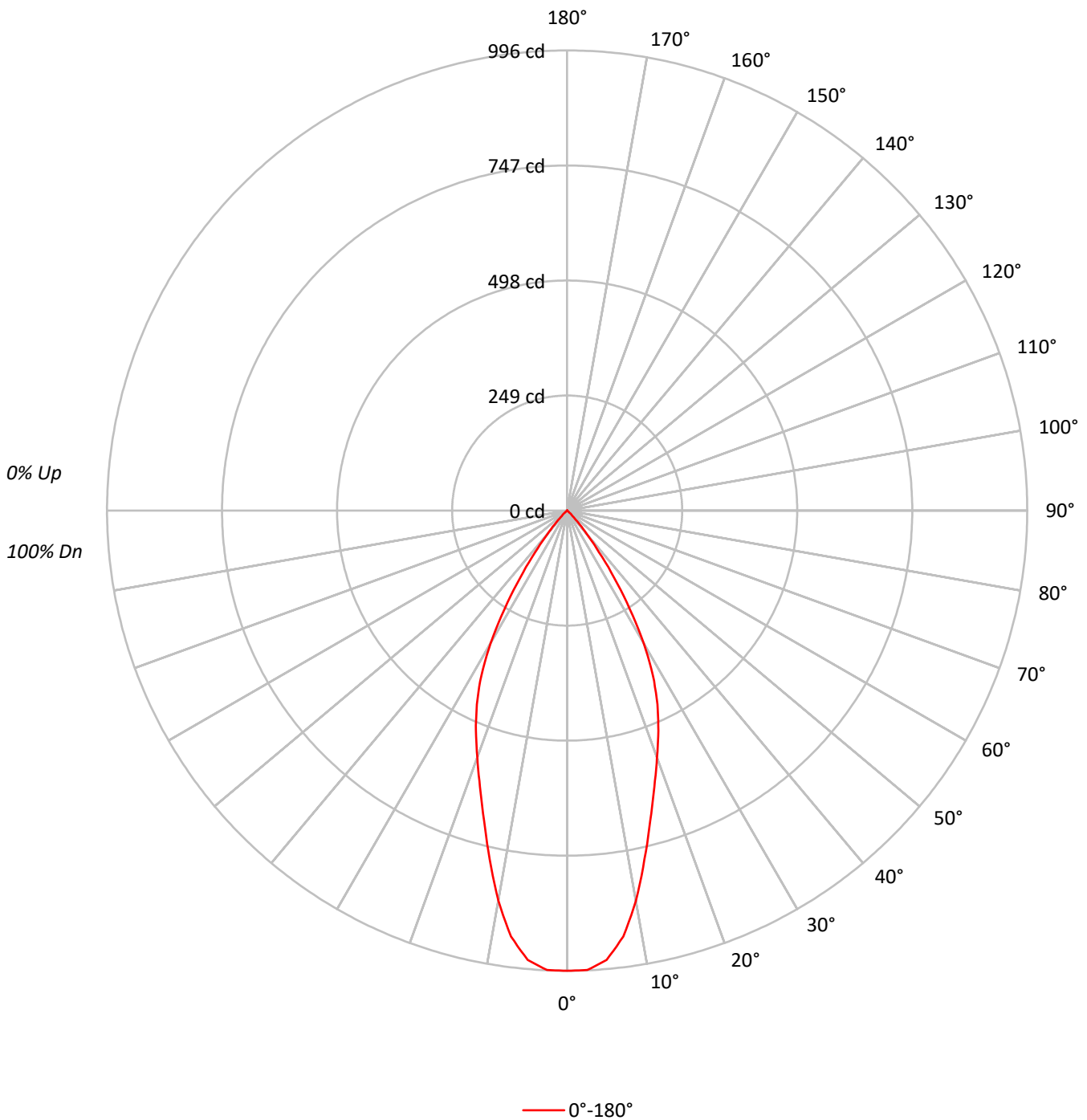
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	39	39	39	39	38	38	38	38	37	37	37	35	35	35	34	34	34	33
1	38	37	36	35	37	36	35	35	35	34	34	34	33	33	32	32	32	31
2	36	34	33	32	35	34	33	32	33	32	31	32	31	31	31	30	30	29
3	34	32	31	30	34	32	31	29	31	30	29	30	29	29	30	29	28	28
4	33	30	29	28	32	30	29	27	29	28	27	29	28	27	28	27	26	26
5	31	29	27	26	31	28	27	26	28	26	25	27	26	25	27	26	25	24
6	30	27	25	24	29	27	25	24	26	25	24	26	25	24	26	24	23	23
7	29	26	24	23	28	25	24	23	25	24	22	25	23	22	24	23	22	22
8	27	24	23	21	27	24	22	21	24	22	21	24	22	21	23	22	21	21
9	26	23	21	20	26	23	21	20	23	21	20	22	21	20	22	21	20	19
10	25	22	20	19	25	22	20	19	22	20	19	21	20	19	21	20	19	18

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

	0°
0°	30713
5°	30227
10°	26853
15°	22159
20°	18656
25°	15736
30°	11786
35°	6667
40°	2633
45°	706
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°	89.4	14.3	4.7	0°	996	
10°-20°	194.8	31.2	10.3	5°	976	89
20°-30°	208.6	33.4	11.1	15°	694	195
30°-40°	113.1	18.1	6.0	25°	462	209
40°-50°	17.6	2.8	0.9	35°	177	113
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°	492.7	79.0	26.1	165°	0	0
0°-40°	605.8	97.1	32.1	175°	0	0
0°-60°	623.9	100.0	33.1	180°	0	0
0°-90°	624.0	100.0	33.1			
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°	624.0	100.0	33.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	996.0
2.5°	995.4
5°	976.5
7.5°	930.0
10°	857.6
12.5°	773.3
15°	694.1
17.5°	627.0
20°	568.5
22.5°	516.0
25°	462.5
27.5°	402.0
30°	331.0
32.5°	252.4
35°	177.1
37.5°	113.3
40°	65.4
42.5°	35.0
45°	16.2
47.5°	8.6
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)