

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: P246361

Luminaire Tested: **LSR8B15D010 EC8B15935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246361  
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: LSR8B15D010 EC8B15935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 781.0 lumens  
Efficiency: 41.4%  
Efficacy: 54.2 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

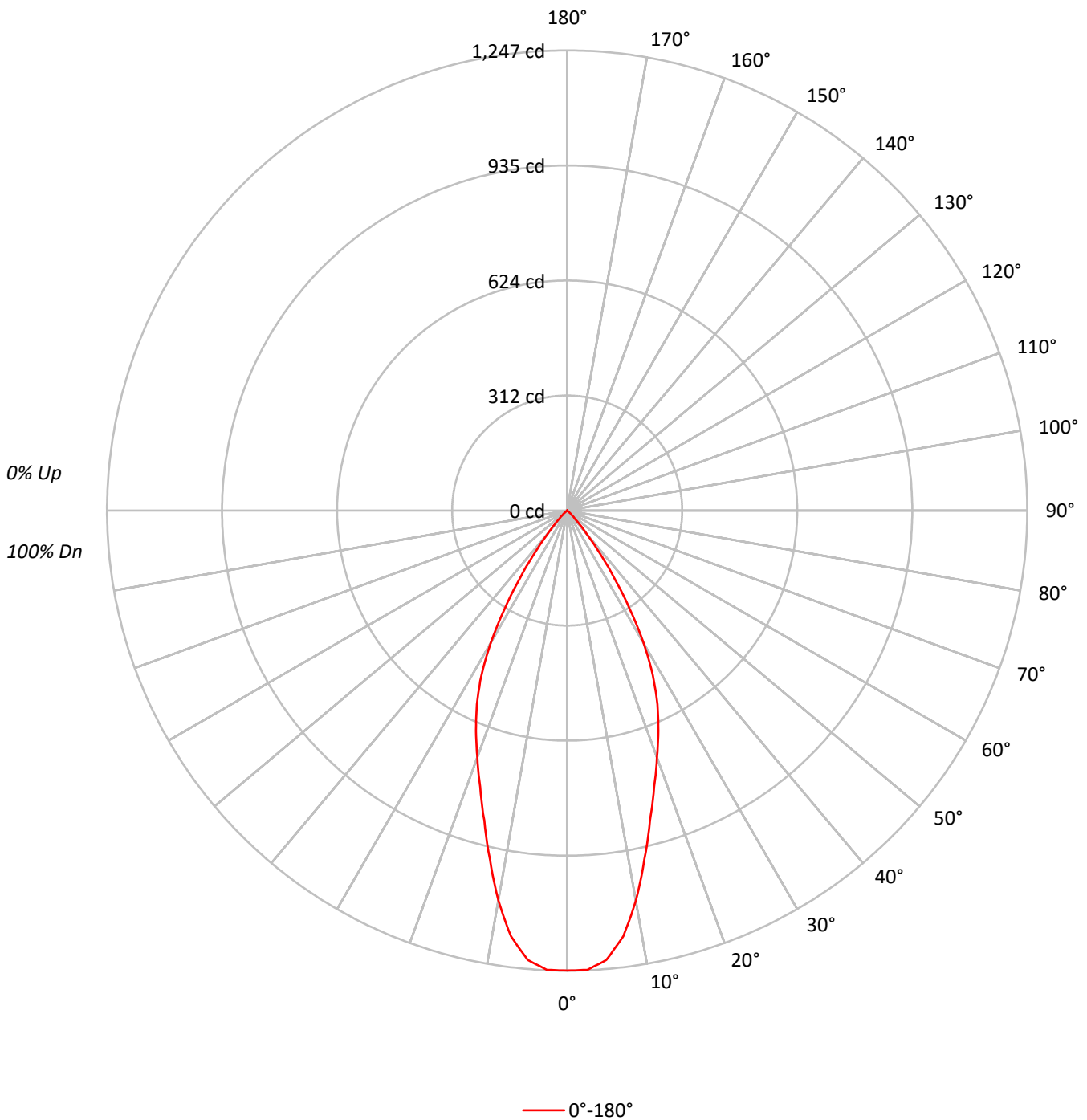
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	41
1	47	46	45	44	46	45	44	44	44	43	42	42	41	41	41	40	40	39
2	45	43	42	40	44	42	41	40	41	40	39	40	39	38	39	38	37	37
3	43	41	39	37	42	40	38	37	39	37	36	38	37	36	37	36	35	35
4	41	38	36	34	40	38	36	34	37	35	34	36	35	33	35	34	33	32
5	39	36	34	32	39	36	34	32	35	33	32	34	33	31	34	32	31	31
6	37	34	32	30	37	34	32	30	33	31	30	33	31	30	32	31	29	29
7	36	32	30	28	35	32	30	28	31	29	28	31	29	28	30	29	28	27
8	34	31	28	27	34	30	28	27	30	28	26	29	28	26	29	27	26	26
9	33	29	27	25	32	29	27	25	28	26	25	28	26	25	28	26	25	24
10	31	28	25	24	31	27	25	24	27	25	24	27	25	24	26	25	24	23

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

	0°
0°	38441
5°	37832
10°	33610
15°	27732
20°	23351
25°	19697
30°	14752
35°	8342
40°	3297
45°	881
50°	177
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°	111.8	14.3	5.9	0°	1247	
10°-20°	243.8	31.2	12.9	5°	1222	112
20°-30°	261.1	33.4	13.8	15°	869	244
30°-40°	141.5	18.1	7.5	25°	579	261
40°-50°	22.0	2.8	1.2	35°	222	142
50°-60°	0.6	0.1	0.0	45°	20	22
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°	616.7	79.0	32.7	165°	0	0
0°-40°	758.2	97.1	40.2	175°	0	0
0°-60°	780.8	100.0	41.4	180°	0	0
0°-90°	781.0	100.0	41.4			
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°	781.0	100.0	41.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1246.6
2.5°	1245.8
5°	1222.2
7.5°	1163.9
10°	1073.4
12.5°	967.9
15°	868.7
17.5°	784.8
20°	711.6
22.5°	645.8
25°	578.9
27.5°	503.2
30°	414.3
32.5°	315.9
35°	221.6
37.5°	141.9
40°	81.9
42.5°	43.8
45°	20.2
47.5°	10.7
50°	3.7
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)