

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: P246337

Luminaire Tested: **LSR8B15D010 EC8B15840 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246337  
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 EC8B15840 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 910.0 lumens  
Efficiency: 48.2%  
Efficacy: 63.2 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

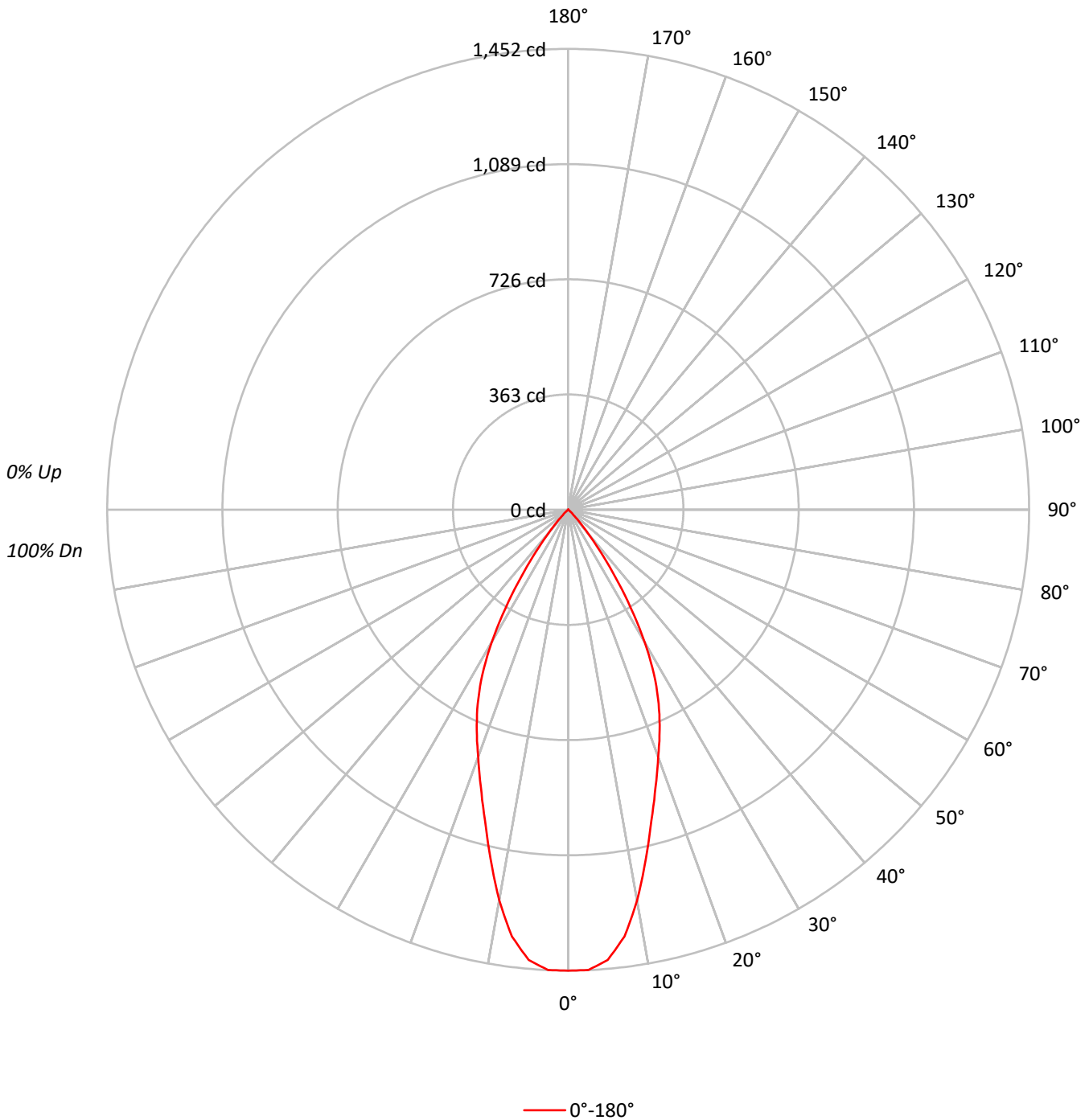
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	57	57	57	57	56	56	56	56	54	54	54	51	51	51	49	49	49	48
1	55	54	53	52	54	53	52	51	51	50	49	49	48	48	47	47	46	46
2	52	50	49	47	51	49	48	46	48	47	45	47	45	44	45	44	44	43
3	50	47	45	43	49	47	45	43	45	44	42	44	43	42	43	42	41	40
4	48	44	42	40	47	44	42	40	43	41	39	42	40	39	41	40	39	38
5	46	42	39	37	45	41	39	37	41	39	37	40	38	37	39	38	36	36
6	44	40	37	35	43	39	37	35	39	36	35	38	36	34	37	36	34	34
7	42	37	35	33	41	37	35	33	37	34	33	36	34	33	36	34	32	32
8	40	36	33	31	39	35	33	31	35	32	31	34	32	31	34	32	31	30
9	38	34	31	29	38	34	31	29	33	31	29	33	31	29	32	30	29	28
10	36	32	30	28	36	32	29	28	32	29	28	31	29	28	31	29	28	27

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

	0°
0°	44790
5°	44082
10°	39162
15°	32314
20°	27207
25°	22949
30°	17187
35°	9723
40°	3840
45°	1029
50°	206
55°	0
60°	31
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°	130.3	14.3	6.9	0°	1452	
10°-20°	284.0	31.2	15.1	5°	1424	130
20°-30°	304.3	33.4	16.1	15°	1012	284
30°-40°	164.9	18.1	8.7	25°	674	304
40°-50°	25.6	2.8	1.4	35°	258	165
50°-60°	0.7	0.1	0.0	45°	24	26
60°-70°	0.2	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°	718.6	79.0	38.1	165°	0	0
0°-40°	883.5	97.1	46.8	175°	0	0
0°-60°	909.9	100.0	48.2	180°	0	0
0°-90°	910.0	100.0	48.2			
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°	910.0	100.0	48.2			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1452.5
2.5°	1451.6
5°	1424.1
7.5°	1356.2
10°	1250.7
12.5°	1127.8
15°	1012.2
17.5°	914.4
20°	829.1
22.5°	752.5
25°	674.5
27.5°	586.3
30°	482.7
32.5°	368.1
35°	258.3
37.5°	165.3
40°	95.4
42.5°	51.1
45°	23.6
47.5°	12.5
50°	4.3
52.5°	0.5
55°	0.0
57.5°	0.5
60°	0.5
62.5°	0.0
65°	0.0
67.5°	0.5
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)