

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: P246367

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246367
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 EC8B15940 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 816.0 lumens
Efficiency: 43.2%
Efficacy: 56.7 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

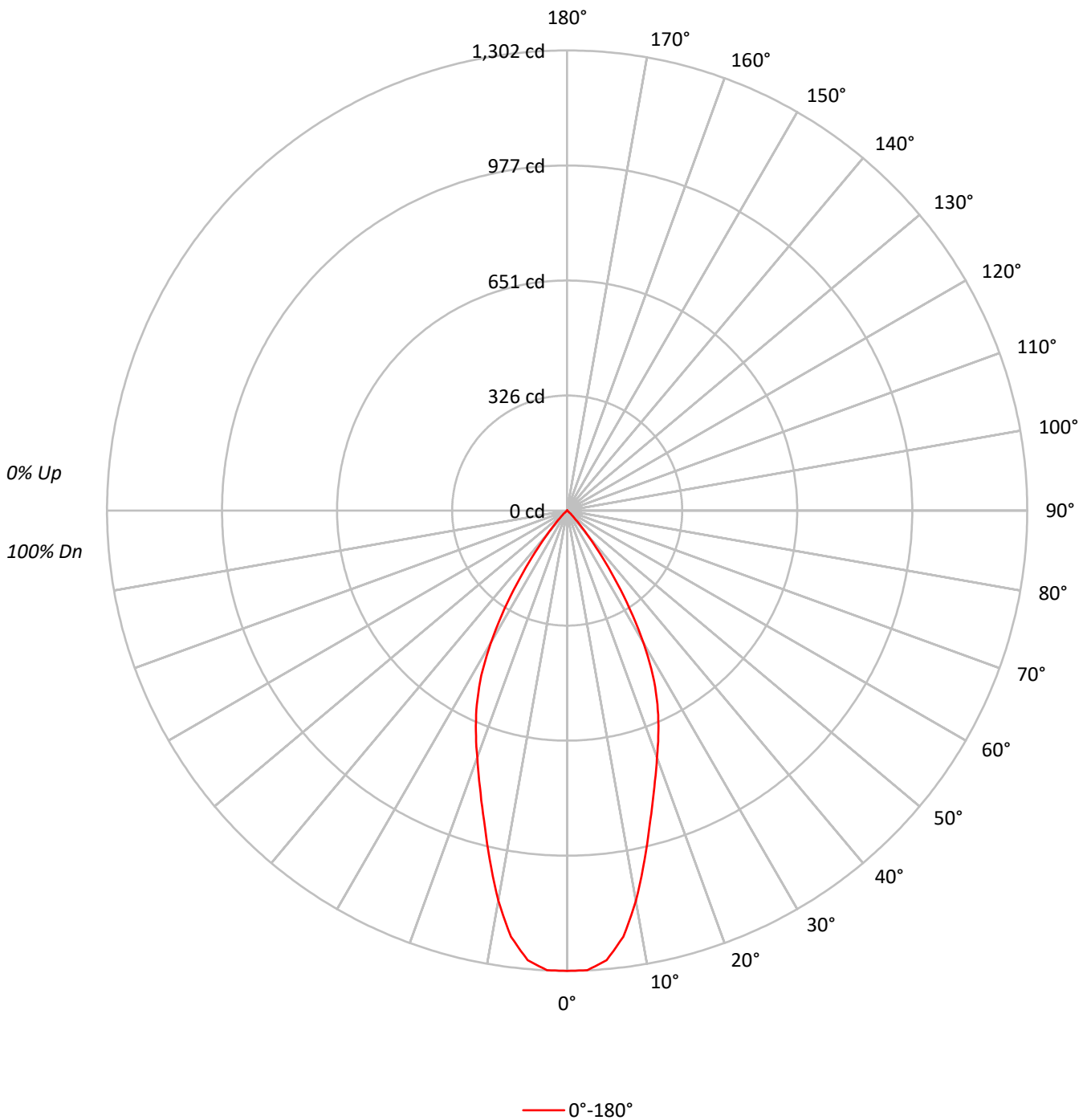
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246367

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246367

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBN0B

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	51	51	51	51	50	50	50	50	48	48	48		46	46	46		44	44	44	43
1	49	48	47	46	48	47	46	46	45	45	44		44	43	43		42	42	42	41
2	47	45	43	42	46	44	43	42	43	42	41		42	41	40		41	40	39	38
3	45	42	40	39	44	42	40	38	41	39	38		40	38	37		39	38	37	36
4	43	40	38	36	42	39	37	36	38	37	35		38	36	35		37	36	35	34
5	41	38	35	34	40	37	35	33	36	35	33		36	34	33		35	34	33	32
6	39	36	33	31	38	35	33	31	35	33	31		34	32	31		33	32	31	30
7	37	34	31	30	37	33	31	29	33	31	29		32	30	29		32	30	29	28
8	36	32	29	28	35	32	29	28	31	29	28		31	29	28		30	29	27	27
9	34	30	28	26	34	30	28	26	30	28	26		29	27	26		29	27	26	25
10	33	29	26	25	32	29	26	25	28	26	25		28	26	25		28	26	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40164
5°	39528
10°	35116
15°	28974
20°	24398
25°	20578
30°	15414
35°	8718
40°	3442
45°	920
50°	187
55°	0
60°	25
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P246367

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	116.8	14.3	6.2	0°	1302	
10°-20°	254.7	31.2	13.5	5°	1277	117
20°-30°	272.8	33.4	14.5	15°	908	255
30°-40°	147.9	18.1	7.8	25°	605	273
40°-50°	23.0	2.8	1.2	35°	232	148
50°-60°	0.6	0.1	0.0	45°	21	23
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°	644.4	79.0	34.1	165°	0	0
0°-40°	792.2	97.1	42.0	175°	0	0
0°-60°	815.8	100.0	43.2	180°	0	0
0°-90°	816.0	100.0	43.2			
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°	816.0	100.0	43.2			



TEST NUMBER: P246367

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1302.5
2.5°	1301.6
5°	1277.0
7.5°	1216.1
10°	1121.5
12.5°	1011.3
15°	907.6
17.5°	819.9
20°	743.5
22.5°	674.8
25°	604.8
27.5°	525.8
30°	432.9
32.5°	330.1
35°	231.6
37.5°	148.2
40°	85.5
42.5°	45.8
45°	21.1
47.5°	11.2
50°	3.9
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



TEST NUMBER: P246367

CATALOG NUMBER: LSR8B15D010 EC8B15940 8LBN0B

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)