

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: P246319

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246319
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 EC8B15827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 859.0 lumens
Efficiency: 45.5%
Efficacy: 59.6 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

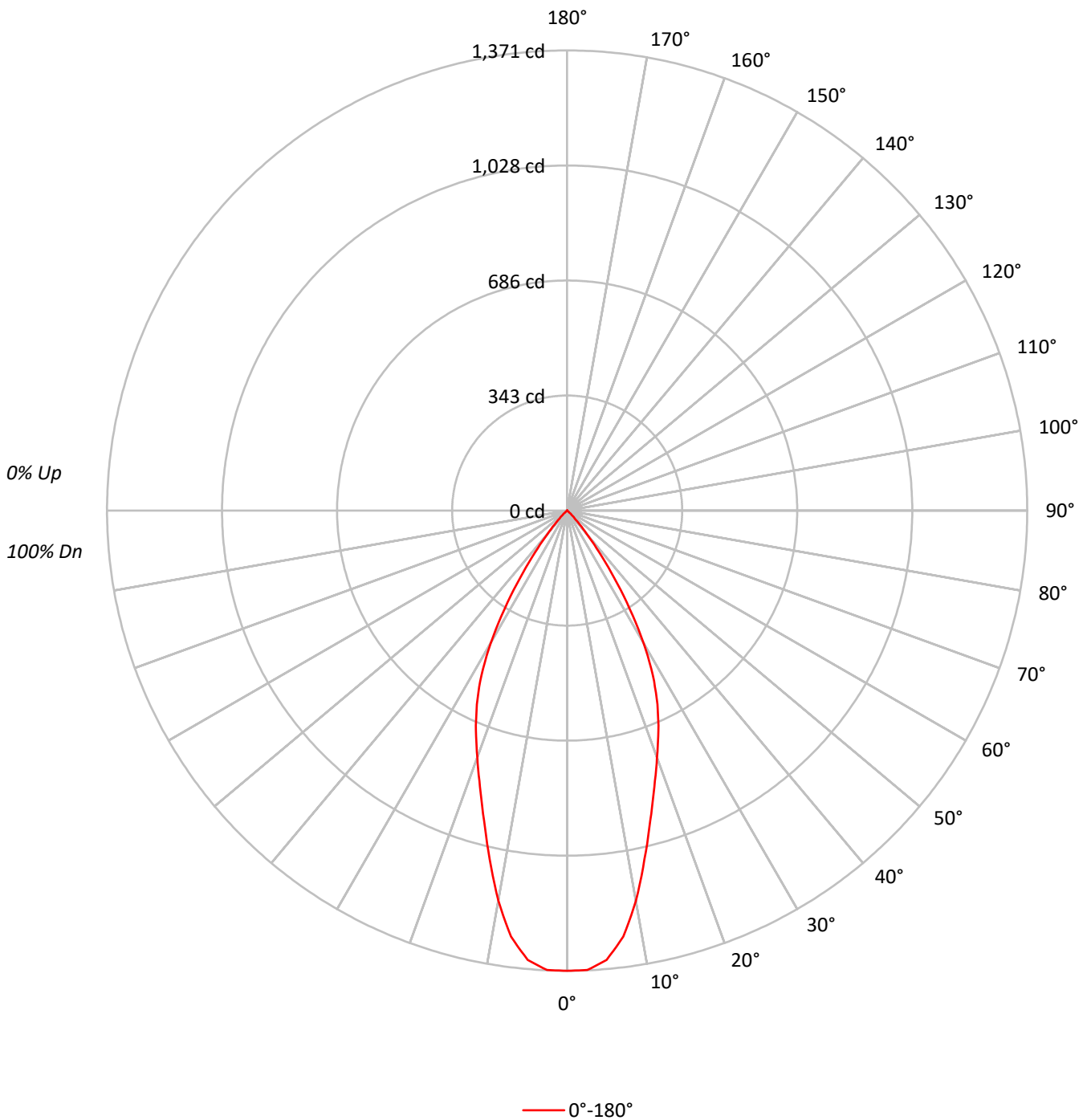
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	54	54	54	54	53	53	53	53	51	51	51	48	48	48	46	46	46	46
1	52	51	50	49	51	50	49	48	48	47	46	46	46	45	45	44	44	43
2	50	47	46	44	49	47	45	44	45	44	43	44	43	42	43	42	41	40
3	47	45	43	41	46	44	42	41	43	41	40	42	40	39	41	40	39	38
4	45	42	40	38	44	41	39	38	40	39	37	40	38	37	39	37	36	36
5	43	40	37	35	42	39	37	35	38	36	35	38	36	35	37	35	34	34
6	41	37	35	33	40	37	35	33	36	34	33	36	34	33	35	34	32	32
7	39	35	33	31	39	35	33	31	35	32	31	34	32	31	34	32	31	30
8	38	34	31	29	37	33	31	29	33	31	29	32	30	29	32	30	29	28
9	36	32	29	28	35	32	29	28	31	29	28	31	29	27	30	29	27	27
10	34	30	28	26	34	30	28	26	30	28	26	29	27	26	29	27	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42280
5°	41612
10°	36967
15°	30503
20°	25681
25°	21663
30°	16226
35°	9178
40°	3623
45°	968
50°	197
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°	123.0	14.3	6.5	0°	1371	
10°-20°	268.1	31.2	14.2	5°	1344	123
20°-30°	287.2	33.4	15.2	15°	956	268
30°-40°	155.6	18.1	8.2	25°	637	287
40°-50°	24.2	2.8	1.3	35°	244	156
50°-60°	0.7	0.1	0.0	45°	22	24
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°	678.3	79.0	35.9	165°	0	0
0°-40°	834.0	97.1	44.2	175°	0	0
0°-60°	858.8	100.0	45.5	180°	0	0
0°-90°	859.0	100.0	45.5			
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°	859.0	100.0	45.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1371.1
2.5°	1370.2
5°	1344.3
7.5°	1280.2
10°	1180.6
12.5°	1064.6
15°	955.5
17.5°	863.1
20°	782.6
22.5°	710.3
25°	636.7
27.5°	553.5
30°	455.7
32.5°	347.5
35°	243.8
37.5°	156.0
40°	90.0
42.5°	48.2
45°	22.2
47.5°	11.8
50°	4.1
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)