

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: P246331

Luminaire Tested: **LSR8B15D010 EC8B15835 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246331
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 EC8B15835 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 916.0 lumens
Efficiency: 48.5%
Efficacy: 63.6 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

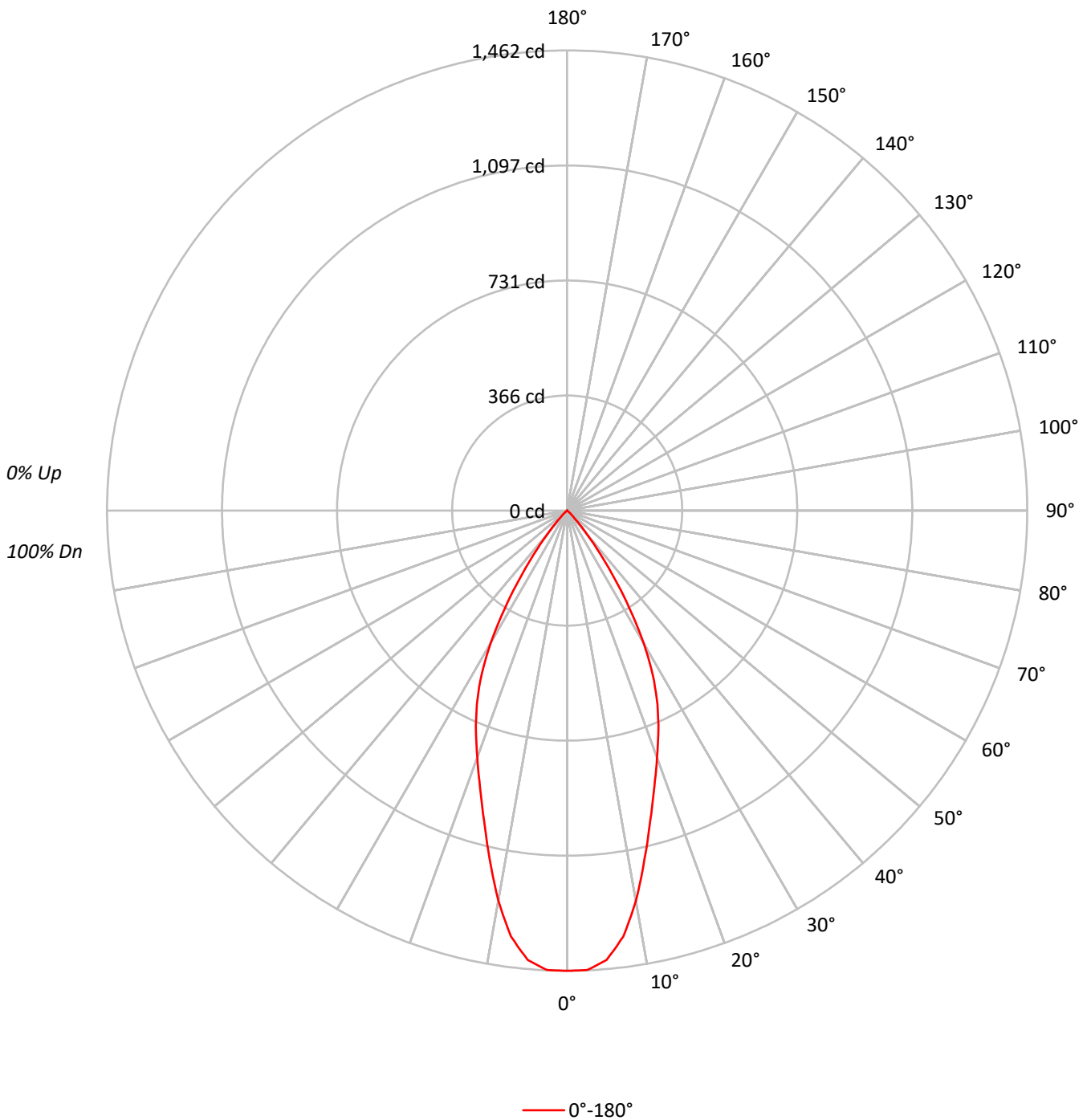
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	58	58	58	58	56	56	56	56	54	54	54	52	52	52	50	50	50	49
1	55	54	53	52	54	53	52	51	51	50	50	49	49	48	48	47	47	46
2	53	51	49	47	52	50	48	47	48	47	46	47	46	45	46	45	44	43
3	50	48	45	44	49	47	45	43	46	44	43	44	43	42	43	42	41	40
4	48	45	42	40	47	44	42	40	43	41	40	42	41	39	41	40	39	38
5	46	42	40	38	45	42	39	37	41	39	37	40	38	37	39	38	37	36
6	44	40	37	35	43	39	37	35	39	37	35	38	36	35	38	36	34	34
7	42	38	35	33	41	37	35	33	37	35	33	36	34	33	36	34	33	32
8	40	36	33	31	40	36	33	31	35	33	31	35	32	31	34	32	31	30
9	38	34	31	30	38	34	31	29	33	31	29	33	31	29	33	31	29	29
10	37	32	30	28	36	32	30	28	32	29	28	31	29	28	31	29	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45086
5°	44373
10°	39419
15°	32527
20°	27388
25°	23099
30°	17301
35°	9787
40°	3864
45°	1034
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°	131.2	14.3	7.0	0°	1462	
10°-20°	285.9	31.2	15.2	5°	1434	131
20°-30°	306.3	33.4	16.2	15°	1019	286
30°-40°	166.0	18.1	8.8	25°	679	306
40°-50°	25.8	2.8	1.4	35°	260	166
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°	723.3	79.0	38.3	165°	0	0
0°-40°	889.3	97.1	47.1	175°	0	0
0°-60°	915.8	100.0	48.5	180°	0	0
0°-90°	916.0	100.0	48.5			
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°	916.0	100.0	48.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1462.1
2.5°	1461.1
5°	1433.5
7.5°	1365.1
10°	1258.9
12.5°	1135.2
15°	1018.9
17.5°	920.4
20°	834.6
22.5°	757.5
25°	678.9
27.5°	590.2
30°	485.9
32.5°	370.5
35°	260.0
37.5°	166.4
40°	96.0
42.5°	51.4
45°	23.7
47.5°	12.6
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)