

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: P245599

Luminaire Tested: **LSR8B15D010 EC8B15827 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B15D010 EC8B15827 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1192.0 lumens  
Efficiency: 54.6%  
Efficacy: 82.8 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

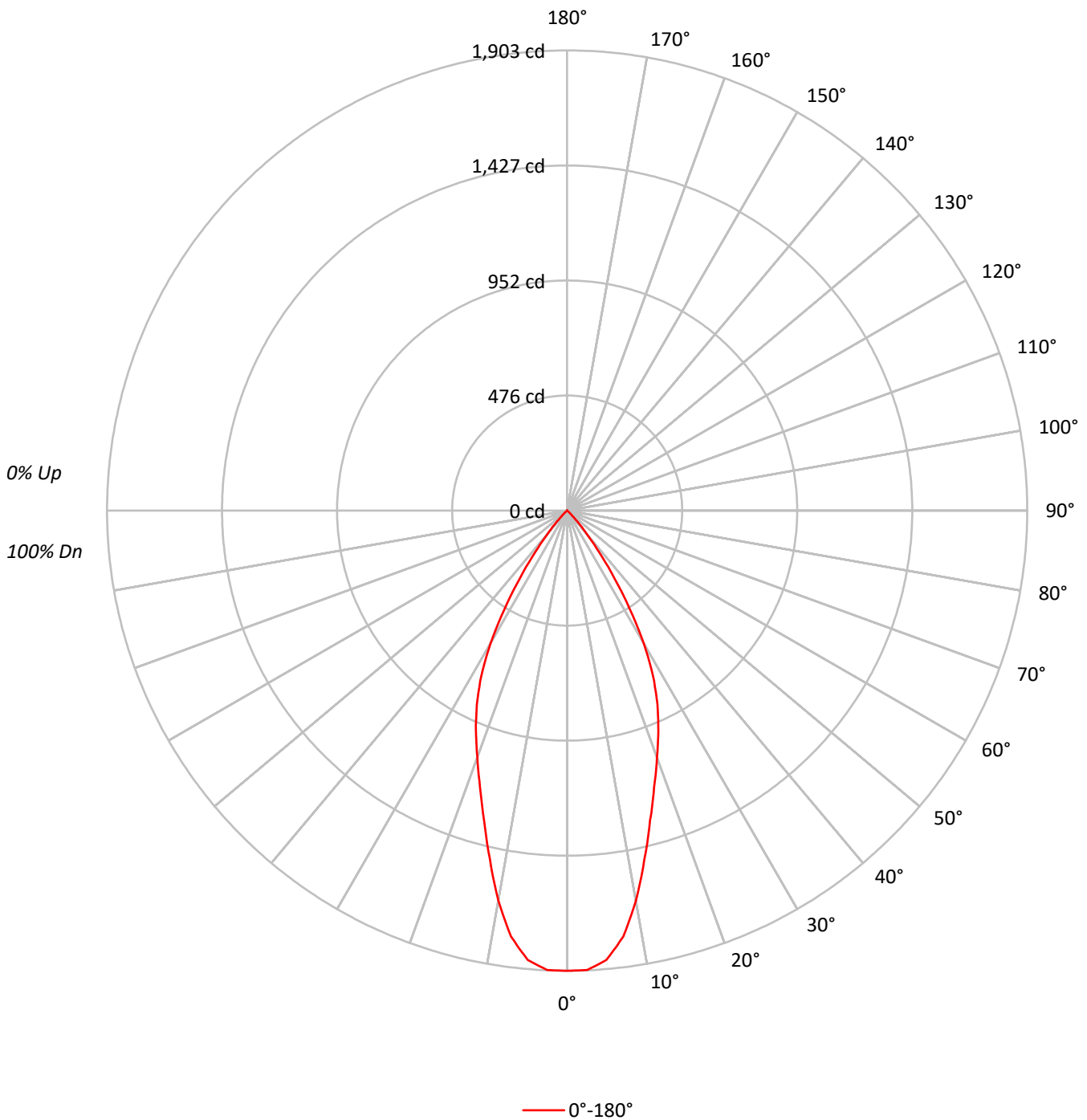
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	65	65	65	65	63	63	63	63	61	61	61	58	58	58	56	56	56	55
1	62	61	60	58	61	60	58	57	57	57	56	55	55	54	54	53	52	52
2	59	57	55	53	58	56	54	53	54	53	51	53	51	50	51	50	49	48
3	57	53	51	49	56	53	50	49	51	49	48	50	48	47	49	48	46	46
4	54	50	48	45	53	50	47	45	49	46	45	48	46	44	47	45	44	43
5	52	47	45	42	51	47	44	42	46	44	42	45	43	41	44	43	41	40
6	49	45	42	40	49	44	42	40	44	41	39	43	41	39	42	40	39	38
7	47	42	39	37	46	42	39	37	41	39	37	41	39	37	40	38	37	36
8	45	40	37	35	44	40	37	35	39	37	35	39	37	35	38	36	35	34
9	43	38	35	33	43	38	35	33	37	35	33	37	35	33	37	34	33	32
10	41	36	33	31	41	36	33	31	36	33	31	35	33	31	35	33	31	31

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

	0°
0°	58685
5°	57745
10°	51308
15°	42335
20°	35637
25°	30067
30°	22511
35°	12731
40°	5028
45°	1356
50°	259
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°	170.7	14.3	7.8	0°	1903	
10°-20°	372.1	31.2	17.0	5°	1866	171
20°-30°	398.6	33.4	18.3	15°	1326	372
30°-40°	216.0	18.1	9.9	25°	884	399
40°-50°	33.6	2.8	1.5	35°	338	216
50°-60°	0.9	0.1	0.0	45°	31	34
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°	941.3	79.0	43.1	165°	0	0
0°-40°	1157.3	97.1	53.0	175°	0	0
0°-60°	1191.8	100.0	54.6	180°	0	0
0°-90°	1192.0	100.0	54.6			
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°	1192.0	100.0	54.6			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1903.1
2.5°	1901.6
5°	1865.5
7.5°	1776.6
10°	1638.6
12.5°	1477.1
15°	1326.1
17.5°	1197.9
20°	1086.0
22.5°	985.7
25°	883.7
27.5°	768.0
30°	632.2
32.5°	482.2
35°	338.2
37.5°	216.6
40°	124.9
42.5°	66.5
45°	31.1
47.5°	17.0
50°	5.4
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)