

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: P245647

Luminaire Tested: **LSR8B15D010 EC8B15940 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245647  
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 EC8B15940 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 1132.0 lumens  
Efficiency: 51.9%  
Efficacy: 78.6 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

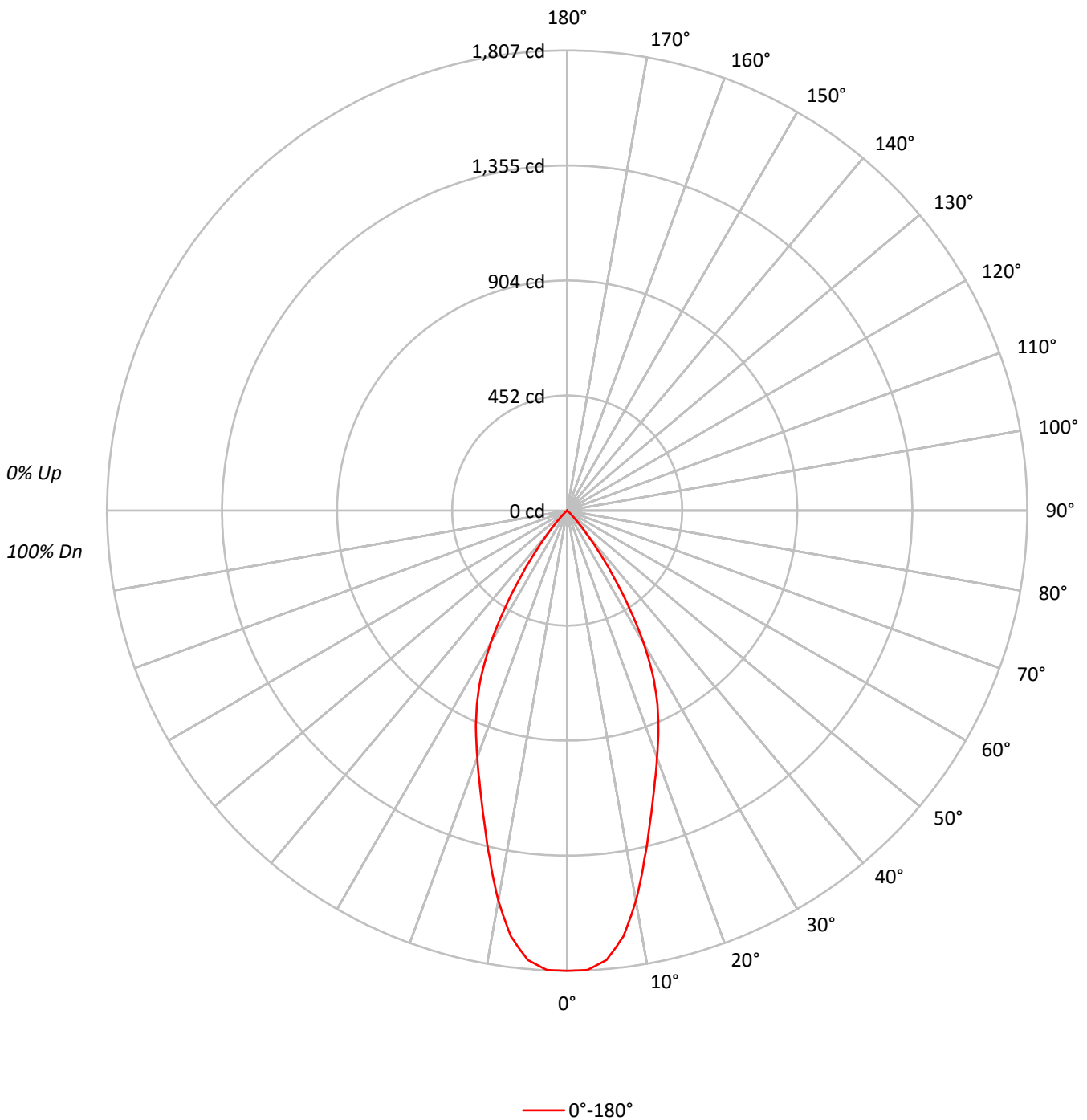
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	62	62	62	60	60	60	60	58	58	58	55	55	55	53	53	53	52
1	59	58	57	55	58	57	56	55	55	54	53	53	52	51	51	50	50	49
2	56	54	52	51	55	53	51	50	52	50	49	50	49	48	49	48	47	46
3	54	51	48	47	53	50	48	46	49	47	45	48	46	45	46	45	44	43
4	51	48	45	43	51	47	45	43	46	44	42	45	43	42	44	43	41	41
5	49	45	42	40	48	45	42	40	44	41	40	43	41	39	42	40	39	38
6	47	43	40	38	46	42	40	38	41	39	37	41	39	37	40	38	37	36
7	45	40	37	35	44	40	37	35	39	37	35	39	37	35	38	36	35	34
8	43	38	35	33	42	38	35	33	37	35	33	37	35	33	36	34	33	32
9	41	36	33	32	40	36	33	32	36	33	31	35	33	31	35	33	31	31
10	39	35	32	30	39	34	32	30	34	31	30	34	31	30	33	31	30	29

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

	0°
0°	55730
5°	54838
10°	48725
15°	40202
20°	33846
25°	28553
30°	21378
35°	12091
40°	4774
45°	1286
50°	245
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°	162.1	14.3	7.4	0°	1807	
10°-20°	353.3	31.2	16.2	5°	1772	162
20°-30°	378.5	33.4	17.3	15°	1259	353
30°-40°	205.1	18.1	9.4	25°	839	378
40°-50°	31.9	2.8	1.5	35°	321	205
50°-60°	0.8	0.1	0.0	45°	30	32
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°	894.0	79.0	41.0	165°	0	0
0°-40°	1099.1	97.1	50.3	175°	0	0
0°-60°	1131.8	100.0	51.8	180°	0	0
0°-90°	1132.0	100.0	51.9			
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°	1132.0	100.0	51.9			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1807.3
2.5°	1805.9
5°	1771.6
7.5°	1687.2
10°	1556.1
12.5°	1402.8
15°	1259.3
17.5°	1137.6
20°	1031.4
22.5°	936.1
25°	839.2
27.5°	729.3
30°	600.4
32.5°	457.9
35°	321.2
37.5°	205.7
40°	118.6
42.5°	63.2
45°	29.5
47.5°	16.1
50°	5.1
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)