

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: P245653

Luminaire Tested: **LSR8B15D010 EC8B15950 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245653
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 EC8B15950 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 1172.0 lumens
Efficiency: 53.7%
Efficacy: 81.4 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

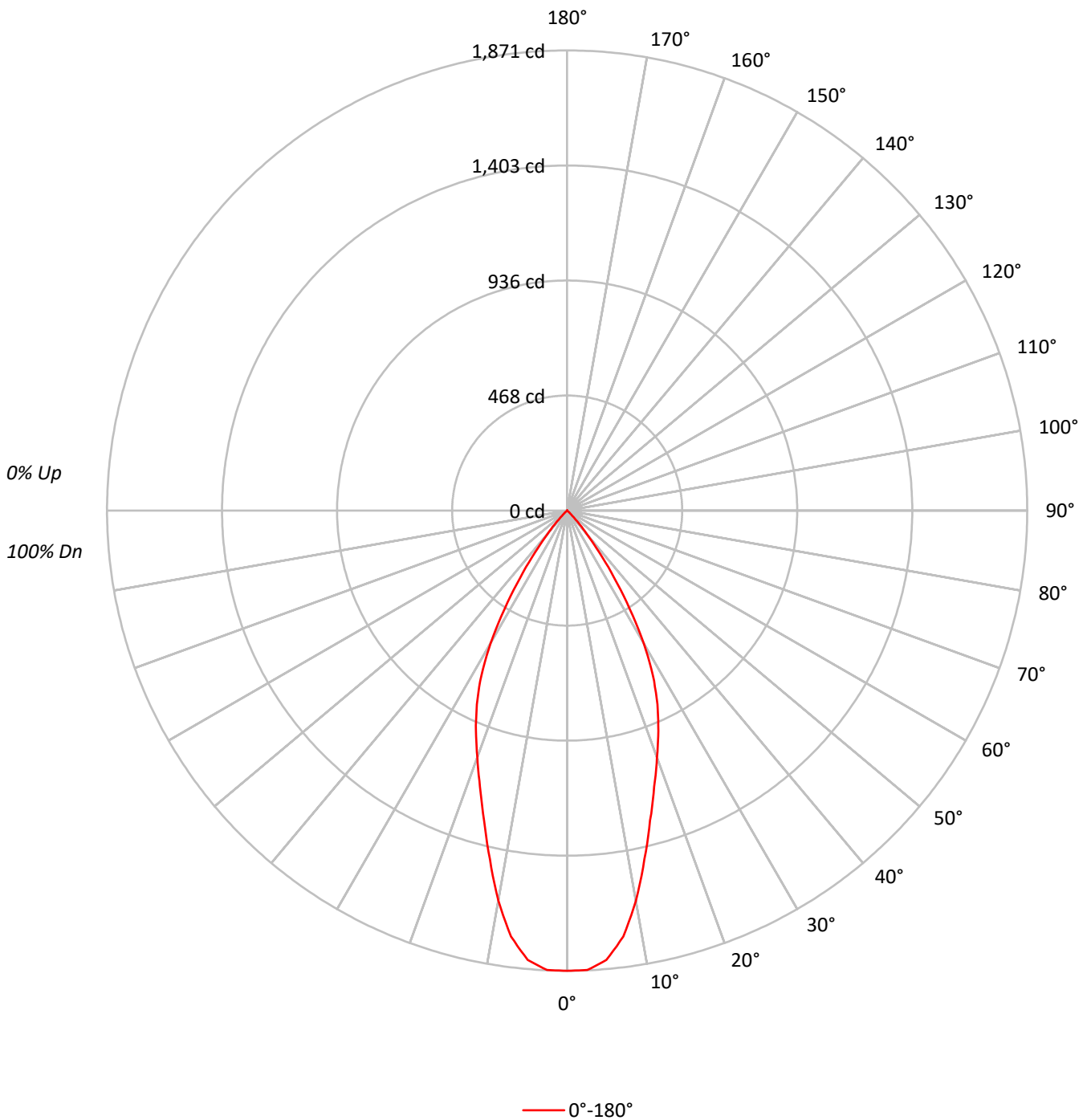
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	64	64	64	64	62	62	62	62	60	60	60		57	57	57		55	55	55	54
1	61	60	59	57	60	59	58	57	56	56	55		54	54	53		53	52	52	51
2	58	56	54	52	57	55	53	52	53	52	51		52	51	50		50	49	49	48
3	56	53	50	48	55	52	50	48	50	49	47		49	48	46		48	47	46	45
4	53	49	47	45	52	49	46	44	48	46	44		47	45	43		46	44	43	42
5	51	47	44	42	50	46	43	41	45	43	41		44	42	41		44	42	40	40
6	49	44	41	39	48	44	41	39	43	40	39		42	40	38		41	40	38	37
7	46	42	39	37	46	41	39	37	41	38	36		40	38	36		40	38	36	35
8	44	40	37	35	44	39	36	34	39	36	34		38	36	34		38	36	34	33
9	42	38	35	33	42	37	35	33	37	34	33		36	34	32		36	34	32	32
10	41	36	33	31	40	36	33	31	35	33	31		35	32	31		34	32	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57701
5°	56776
10°	50447
15°	41623
20°	35040
25°	29564
30°	22133
35°	12517
40°	4943
45°	1330
50°	254
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°	167.8	14.3	7.7	0°	1871	
10°-20°	365.8	31.2	16.8	5°	1834	168
20°-30°	391.9	33.4	18.0	15°	1304	366
30°-40°	212.4	18.1	9.7	25°	869	392
40°-50°	33.0	2.8	1.5	35°	332	212
50°-60°	0.8	0.1	0.0	45°	30	33
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°	925.5	79.0	42.4	165°	0	0
0°-40°	1137.9	97.1	52.1	175°	0	0
0°-60°	1171.8	100.0	53.7	180°	0	0
0°-90°	1172.0	100.0	53.7			
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°	1172.0	100.0	53.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1871.2
2.5°	1869.7
5°	1834.2
7.5°	1746.8
10°	1611.1
12.5°	1452.3
15°	1303.8
17.5°	1177.8
20°	1067.8
22.5°	969.1
25°	868.9
27.5°	755.1
30°	621.6
32.5°	474.1
35°	332.5
37.5°	213.0
40°	122.8
42.5°	65.4
45°	30.5
47.5°	16.7
50°	5.3
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)