

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: P245659

Luminaire Tested: **LSR8B15D010 EC8B15927 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245659
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 EC8B15927 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 995.6 lumens
Efficiency: 45.6%
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

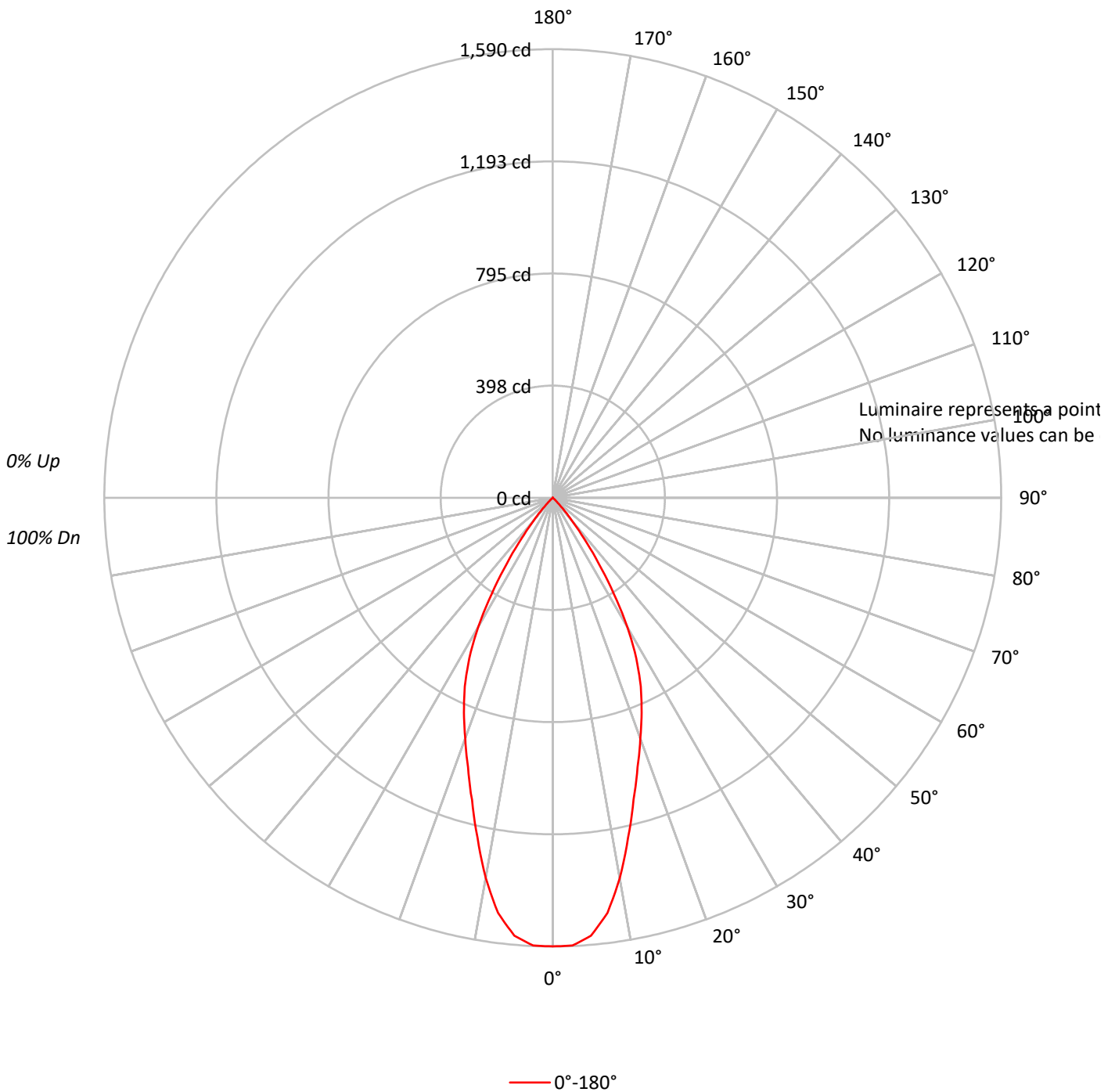
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	142.6	14.3	6.5	0°	1590	
10°-20°	310.8	31.2	14.2	5°	1558	143
20°-30°	332.9	33.4	15.2	15°	1108	311
30°-40°	180.4	18.1	8.3	25°	738	333
40°-50°	28.1	2.8	1.3	35°	282	180
50°-60°	0.7	0.1	0.0	45°	26	28
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°	786.3	79.0	36.0	165°	0	0
0°-40°	966.7	97.1	44.3	175°	0	0
0°-60°	995.5	100.0	45.6	180°	0	0
0°-90°	995.6	100.0	45.6			
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°	995.6	100.0	45.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1589.6
2.5°	1588.3
5°	1558.1
7.5°	1483.9
10°	1368.7
12.5°	1233.8
15°	1107.6
17.5°	1000.6
20°	907.1
22.5°	823.3
25°	738.1
27.5°	641.5
30°	528.1
32.5°	402.8
35°	282.5
37.5°	180.9
40°	104.3
42.5°	55.6
45°	26.0
47.5°	14.2
50°	4.5
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)