

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: P246324

Luminaire Tested: **LSR8B10D010 EC8B10830 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246324
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: LSR8B10D010 EC8B10830 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 650.0 lumens
Efficiency: 34.4%
Efficacy: 63.7 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

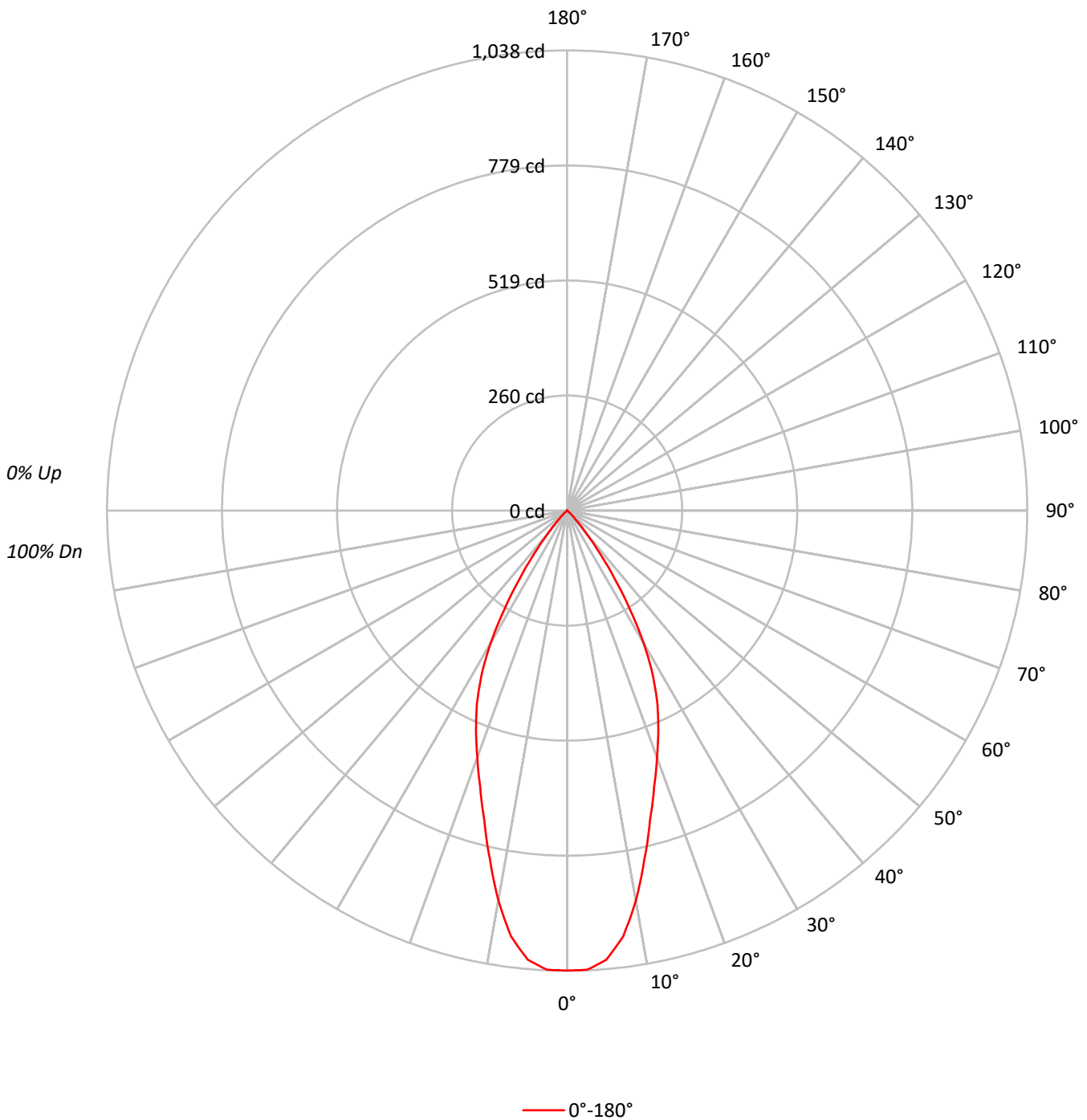
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246324

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246324

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBN0B

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	41	41	41	41	40	40	40	40	38	38	38	37	37	37	35	35	35	34
1	39	38	38	37	38	38	37	36	36	36	35	35	35	34	34	33	33	33
2	37	36	35	34	37	35	34	33	34	33	32	33	32	32	32	32	31	31
3	36	34	32	31	35	33	32	31	32	31	30	32	31	30	31	30	29	29
4	34	32	30	29	34	31	30	28	31	29	28	30	29	28	29	28	28	27
5	33	30	28	27	32	30	28	27	29	28	26	28	27	26	28	27	26	25
6	31	28	26	25	31	28	26	25	28	26	25	27	26	25	27	25	24	24
7	30	27	25	24	29	27	25	23	26	25	23	26	24	23	25	24	23	23
8	28	25	23	22	28	25	23	22	25	23	22	24	23	22	24	23	22	21
9	27	24	22	21	27	24	22	21	24	22	21	23	22	21	23	22	21	20
10	26	23	21	20	26	23	21	20	23	21	20	22	21	20	22	21	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31993
5°	31487
10°	27971
15°	23081
20°	19433
25°	16393
30°	12277
35°	6945
40°	2741
45°	733
50°	149
55°	0
60°	19
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P246324

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	93.1	14.3	4.9	0°	1038	
10°-20°	202.9	31.2	10.8	5°	1017	93
20°-30°	217.3	33.4	11.5	15°	723	203
30°-40°	117.8	18.1	6.2	25°	482	217
40°-50°	18.3	2.8	1.0	35°	184	118
50°-60°	0.5	0.1	0.0	45°	17	18
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°	513.3	79.0	27.2	165°	0	0
0°-40°	631.1	97.1	33.4	175°	0	0
0°-60°	649.8	100.0	34.4	180°	0	0
0°-90°	650.0	100.0	34.4			
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°	650.0	100.0	34.4			



TEST NUMBER: P246324

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1037.5
2.5°	1036.8
5°	1017.2
7.5°	968.7
10°	893.3
12.5°	805.6
15°	723.0
17.5°	653.1
20°	592.2
22.5°	537.5
25°	481.8
27.5°	418.8
30°	344.8
32.5°	262.9
35°	184.5
37.5°	118.1
40°	68.1
42.5°	36.5
45°	16.8
47.5°	8.9
50°	3.1
52.5°	0.3
55°	0.0
57.5°	0.3
60°	0.3
62.5°	0.0
65°	0.0
67.5°	0.3
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



TEST NUMBER: P246324

CATALOG NUMBER: LSR8B10D010 EC8B10830 8LBN0B

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)