

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: P246318

Luminaire Tested: **LD8B10D010 ER8B10827 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246318
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: LD8B10D010 ER8B10827 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 634.0 lumens
Efficiency: 33.6%
Efficacy: 62.2 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

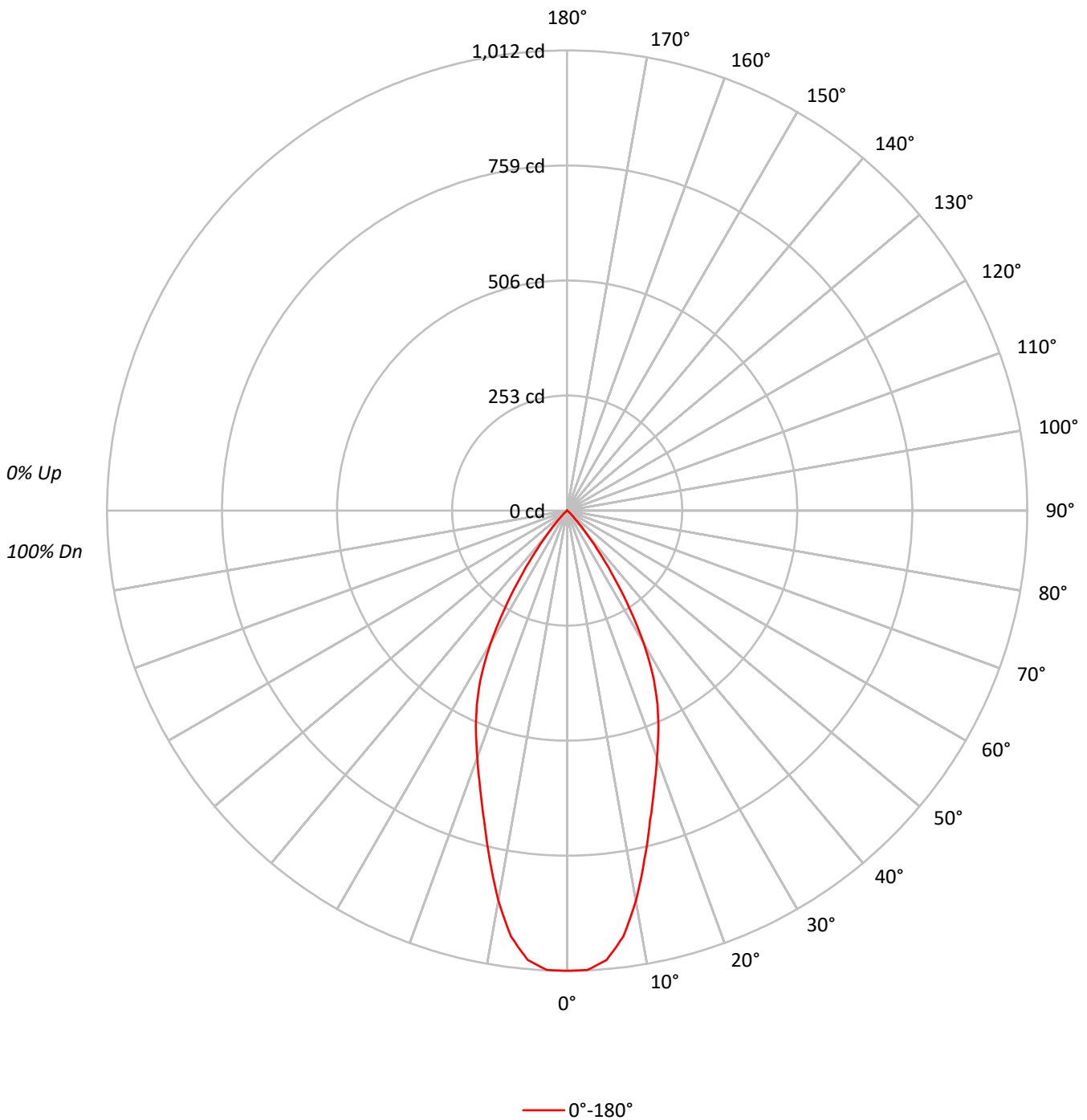
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246318

CATALOG NUMBER: LD8B10D010 ER8B10827 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P246318

CATALOG NUMBER: LD8B10D010 ER8B10827 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	40	40	40	40	39	39	39	39	37	37	37		36	36	36		34	34	34	34
1	38	37	37	36	37	37	36	35	35	35	34		34	34	33		33	33	32	32
2	37	35	34	33	36	34	33	32	33	32	32		32	32	31		31	31	30	30
3	35	33	31	30	34	32	31	30	32	30	29		31	30	29		30	29	29	28
4	33	31	29	28	33	31	29	28	30	29	27		29	28	27		29	28	27	26
5	32	29	27	26	31	29	27	26	28	27	26		28	26	25		27	26	25	25
6	30	28	26	24	30	27	26	24	27	25	24		26	25	24		26	25	24	23
7	29	26	24	23	29	26	24	23	25	24	23		25	24	23		25	23	23	22
8	28	25	23	22	27	25	23	22	24	23	21		24	22	21		24	22	21	21
9	27	24	22	20	26	23	22	20	23	21	20		23	21	20		23	21	20	20
10	25	22	21	19	25	22	21	19	22	20	19		22	20	19		21	20	19	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	31206
5°	30713
10°	27282
15°	22513
20°	18954
25°	15988
30°	11975
35°	6772
40°	2673
45°	715
50°	144
55°	0
60°	19
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P246318

CATALOG NUMBER: LD8B10D010 ER8B10827 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	90.8	14.3	4.8	0°	1012	
10°-20°	197.9	31.2	10.5	5°	992	91
20°-30°	212.0	33.4	11.2	15°	705	198
30°-40°	114.9	18.1	6.1	25°	470	212
40°-50°	17.8	2.8	0.9	35°	180	115
50°-60°	0.5	0.1	0.0	45°	16	18
60°-70°	0.1	0.0	0.0	55°	0	0
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°	500.6	79.0	26.5	165°	0	0
0°-40°	615.5	97.1	32.6	175°	0	0
0°-60°	633.8	100.0	33.6	180°	0	0
0°-90°	634.0	100.0	33.6			
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°	634.0	100.0	33.6			



TEST NUMBER: P246318

CATALOG NUMBER: LD8B10D010 ER8B10827 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1012.0
2.5°	1011.3
5°	992.2
7.5°	944.9
10°	871.3
12.5°	785.7
15°	705.2
17.5°	637.1
20°	577.6
22.5°	524.3
25°	469.9
27.5°	408.5
30°	336.3
32.5°	256.4
35°	179.9
37.5°	115.2
40°	66.4
42.5°	35.6
45°	16.4
47.5°	8.7
50°	3.0
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: P246318

CATALOG NUMBER: LD8B10D010 ER8B10827 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)