

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: P246360

Luminaire Tested: **LSR8B10D010 EC8B10935 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246360
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 EC8B10935 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 577.0 lumens
Efficiency: 30.6%
Efficacy: 56.6 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

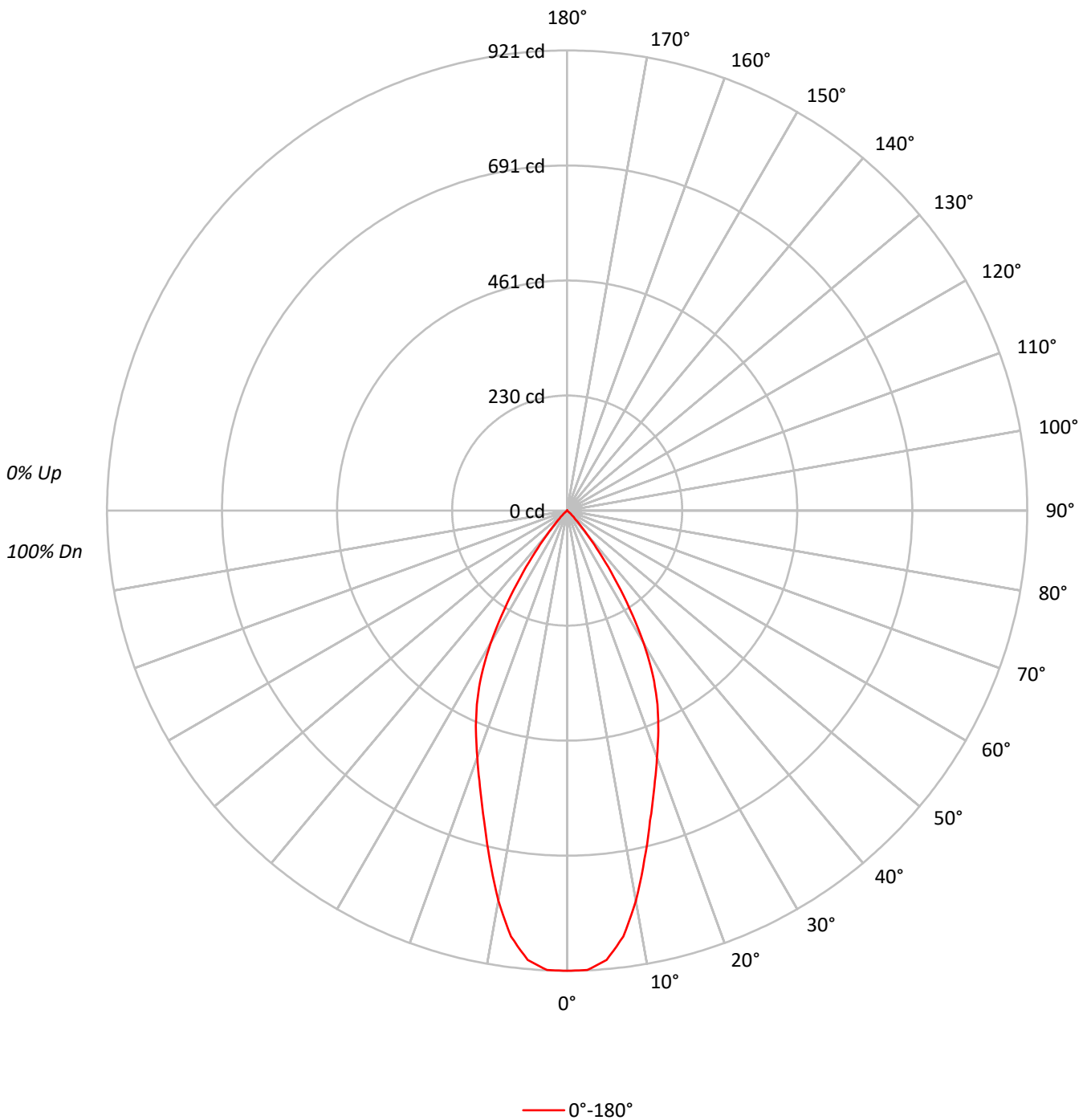
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	36	36	36	36	36	36	36	36	34	34	34	33	33	33	31	31	31	31
1	35	34	33	33	34	33	33	32	32	32	31	31	31	30	30	30	29	29
2	33	32	31	30	33	31	30	29	30	30	29	30	29	28	29	28	28	27
3	32	30	29	27	31	30	28	27	29	28	27	28	27	26	27	27	26	26
4	30	28	27	25	30	28	26	25	27	26	25	27	26	25	26	25	24	24
5	29	27	25	24	28	26	25	24	26	24	23	25	24	23	25	24	23	23
6	28	25	23	22	27	25	23	22	24	23	22	24	23	22	24	23	22	21
7	26	24	22	21	26	24	22	21	23	22	21	23	22	21	23	21	21	20
8	25	23	21	20	25	22	21	20	22	21	20	22	20	19	21	20	19	19
9	24	21	20	19	24	21	20	19	21	20	19	21	19	18	20	19	18	18
10	23	20	19	18	23	20	19	18	20	19	18	20	18	18	20	18	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28400
5°	27952
10°	24830
15°	20489
20°	17251
25°	14552
30°	10899
35°	6162
40°	2435
45°	650
50°	130
55°	0
60°	19
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°	82.6	14.3	4.4	0°	921	
10°-20°	180.1	31.2	9.5	5°	903	83
20°-30°	192.9	33.4	10.2	15°	642	180
30°-40°	104.5	18.1	5.5	25°	428	193
40°-50°	16.2	2.8	0.9	35°	164	105
50°-60°	0.5	0.1	0.0	45°	15	16
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°	455.6	79.0	24.1	165°	0	0
0°-40°	560.2	97.1	29.7	175°	0	0
0°-60°	576.9	100.0	30.6	180°	0	0
0°-90°	577.0	100.0	30.6			
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°	577.0	100.0	30.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	921.0
2.5°	920.4
5°	903.0
7.5°	859.9
10°	793.0
12.5°	715.1
15°	641.8
17.5°	579.8
20°	525.7
22.5°	477.1
25°	427.7
27.5°	371.8
30°	306.1
32.5°	233.4
35°	163.7
37.5°	104.8
40°	60.5
42.5°	32.4
45°	14.9
47.5°	7.9
50°	2.7
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



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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)