

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: P246378

Luminaire Tested: **LSR8B10D010 EC8B10927 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246378
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 EC8B10927 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 529.8 lumens
Efficiency: 28.1%
Efficacy: 51.9 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

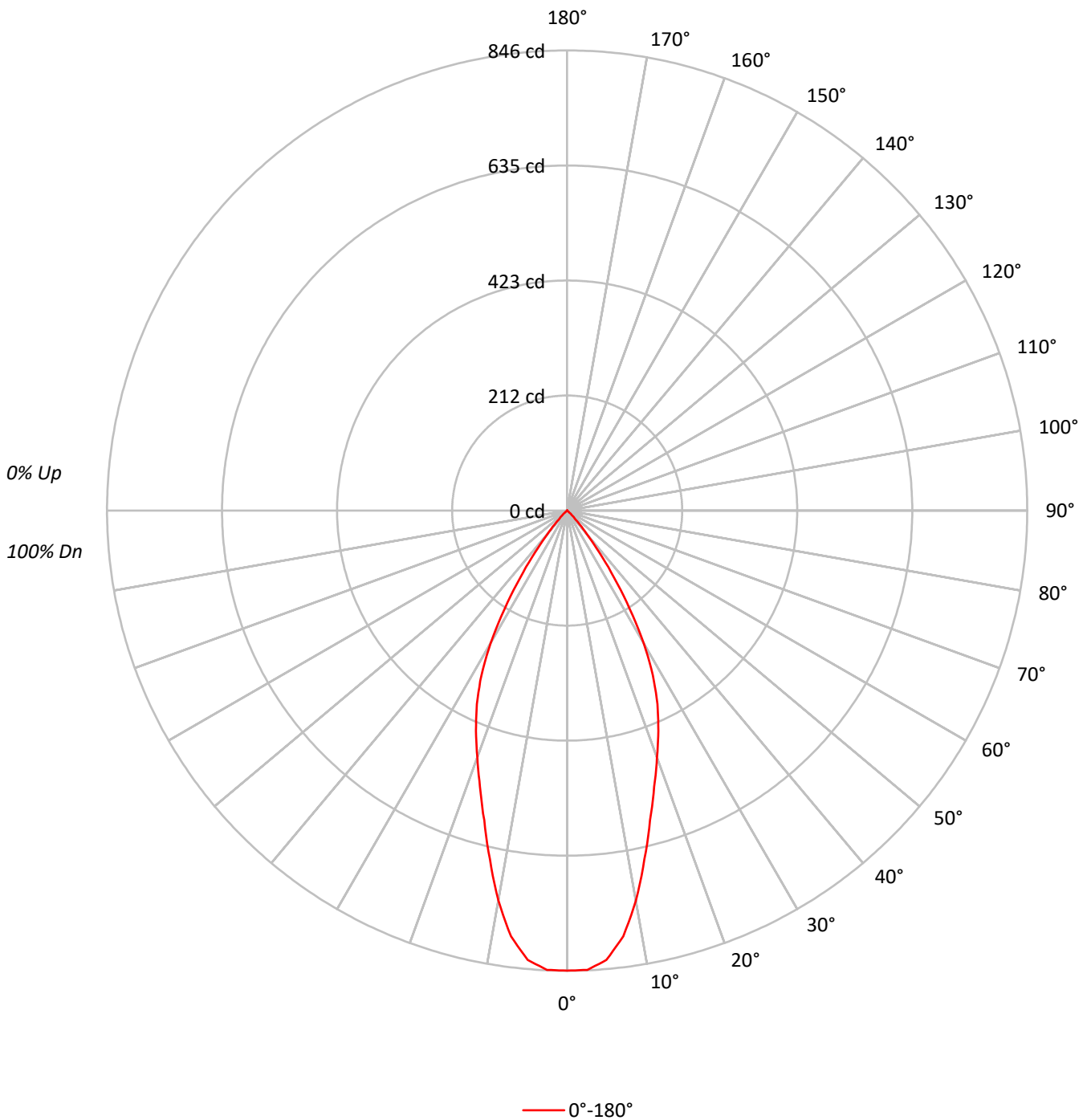
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	33	33	33	33	33	33	33	33	31	31	31	30	30	30	29	29	29	28
1	32	31	31	30	31	31	30	30	30	29	29	28	28	28	28	27	27	27
2	31	29	28	27	30	29	28	27	28	27	26	27	26	26	26	26	25	25
3	29	28	26	25	29	27	26	25	26	25	25	26	25	24	25	24	24	23
4	28	26	24	23	27	26	24	23	25	24	23	24	23	23	24	23	22	22
5	27	24	23	22	26	24	23	22	24	22	21	23	22	21	23	22	21	21
6	25	23	22	20	25	23	21	20	22	21	20	22	21	20	22	21	20	20
7	24	22	20	19	24	22	20	19	21	20	19	21	20	19	21	20	19	18
8	23	21	19	18	23	21	19	18	20	19	18	20	19	18	20	19	18	17
9	22	20	18	17	22	20	18	17	19	18	17	19	18	17	19	18	17	17
10	21	19	17	16	21	19	17	16	18	17	16	18	17	16	18	17	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	26081
5°	25667
10°	22801
15°	18816
20°	15840
25°	13361
30°	10009
35°	5662
40°	2238
45°	597
50°	120
55°	0
60°	12
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°	75.9	14.3	4.0	0°	846	
10°-20°	165.4	31.2	8.8	5°	829	76
20°-30°	177.2	33.4	9.4	15°	589	165
30°-40°	96.0	18.1	5.1	25°	393	177
40°-50°	14.9	2.8	0.8	35°	150	96
50°-60°	0.4	0.1	0.0	45°	14	15
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°	418.4	79.0	22.2	165°	0	0
0°-40°	514.4	97.1	27.3	175°	0	0
0°-60°	529.7	100.0	28.1	180°	0	0
0°-90°	529.8	100.0	28.1			
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°	529.8	100.0	28.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	845.8
2.5°	845.2
5°	829.2
7.5°	789.6
10°	728.2
12.5°	656.7
15°	589.4
17.5°	532.5
20°	482.7
22.5°	438.2
25°	392.7
27.5°	341.4
30°	281.1
32.5°	214.3
35°	150.4
37.5°	96.3
40°	55.6
42.5°	29.7
45°	13.7
47.5°	7.3
50°	2.5
52.5°	0.2
55°	0.0
57.5°	0.2
60°	0.2
62.5°	0.0
65°	0.0
67.5°	0.2
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)