

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: P246336

Luminaire Tested: **LD8B10D010 ER8B10840 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246336
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 ER8B10840 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 672.0 lumens
Efficiency: 35.6%
Efficacy: 65.9 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

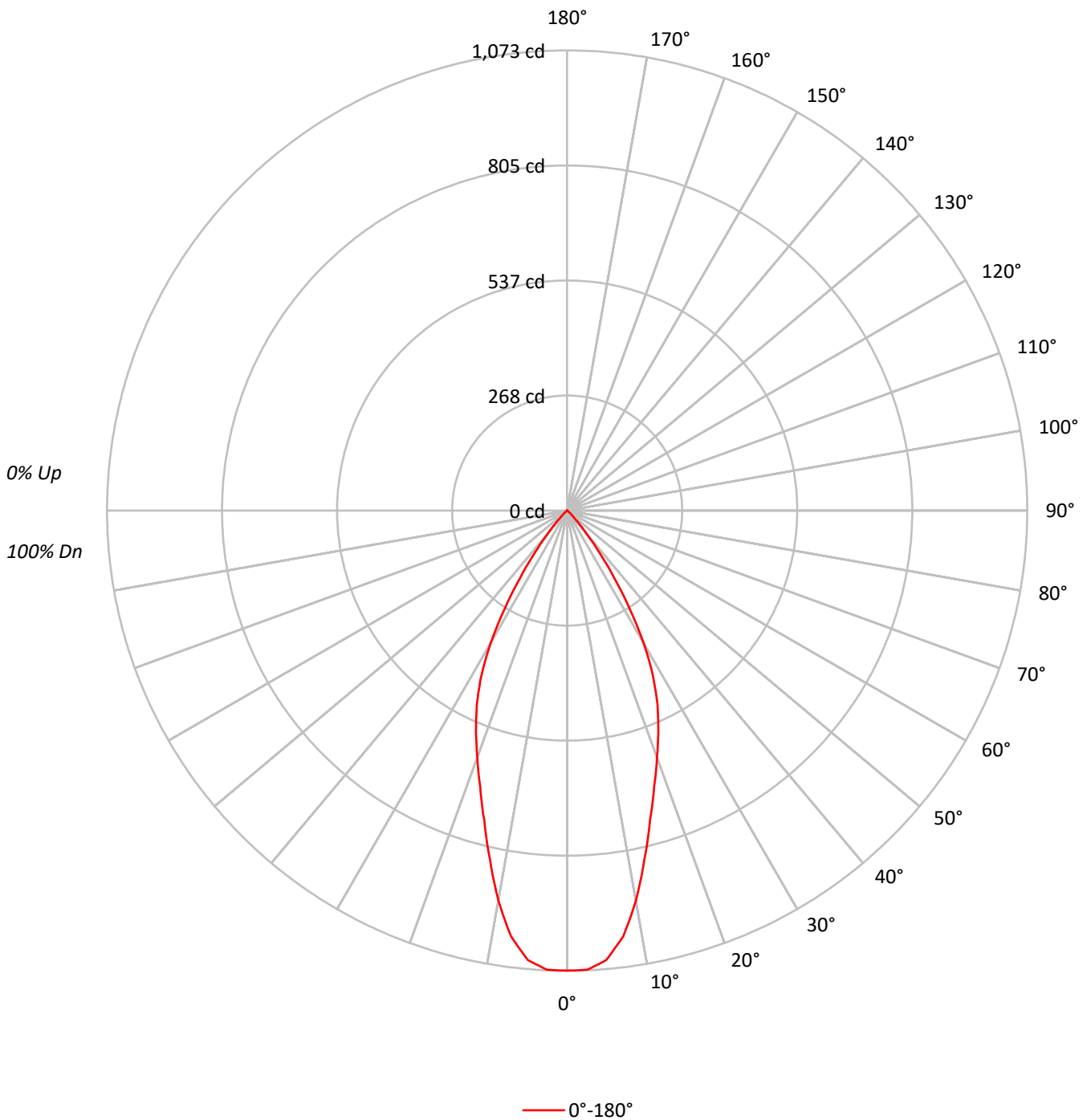
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	42	42	42	42	41	41	41	41	40	40	40	38	38	38	36	36	36	36
1	41	40	39	38	40	39	38	37	37	37	36	36	36	35	35	35	34	34
2	39	37	36	35	38	37	35	34	35	34	34	34	34	33	33	33	32	32
3	37	35	33	32	36	34	33	32	33	32	31	33	32	31	32	31	30	30
4	35	33	31	30	35	32	31	29	32	30	29	31	30	29	30	29	28	28
5	34	31	29	28	33	31	29	28	30	28	27	29	28	27	29	28	27	26
6	32	29	27	26	32	29	27	26	28	27	26	28	27	25	28	26	25	25
7	31	28	26	24	30	27	26	24	27	25	24	27	25	24	26	25	24	23
8	29	26	24	23	29	26	24	23	26	24	23	25	24	23	25	24	23	22
9	28	25	23	22	28	25	23	22	24	23	22	24	23	21	24	22	21	21
10	27	24	22	21	27	24	22	21	23	22	20	23	21	20	23	21	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33075
5°	32554
10°	28920
15°	23863
20°	20093
25°	16947
30°	12694
35°	7179
40°	2834
45°	759
50°	154
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°	96.2	14.3	5.1	0°	1073	
10°-20°	209.7	31.2	11.1	5°	1052	96
20°-30°	224.7	33.4	11.9	15°	748	210
30°-40°	121.8	18.1	6.5	25°	498	225
40°-50°	18.9	2.8	1.0	35°	191	122
50°-60°	0.5	0.1	0.0	45°	17	19
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°	530.7	79.0	28.1	165°	0	0
0°-40°	652.4	97.1	34.6	175°	0	0
0°-60°	671.8	100.0	35.6	180°	0	0
0°-90°	672.0	100.0	35.6			
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°	672.0	100.0	35.6			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1072.6
2.5°	1071.9
5°	1051.7
7.5°	1001.5
10°	923.6
12.5°	832.8
15°	747.5
17.5°	675.2
20°	612.3
22.5°	555.7
25°	498.1
27.5°	433.0
30°	356.5
32.5°	271.8
35°	190.7
37.5°	122.1
40°	70.4
42.5°	37.7
45°	17.4
47.5°	9.2
50°	3.2
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)