

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: P245646

Luminaire Tested: **LD8B10D010 ER8B10940 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B10D010 ER8B10940 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 836.0 lumens  
Efficiency: 38.3%  
Efficacy: 82.0 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

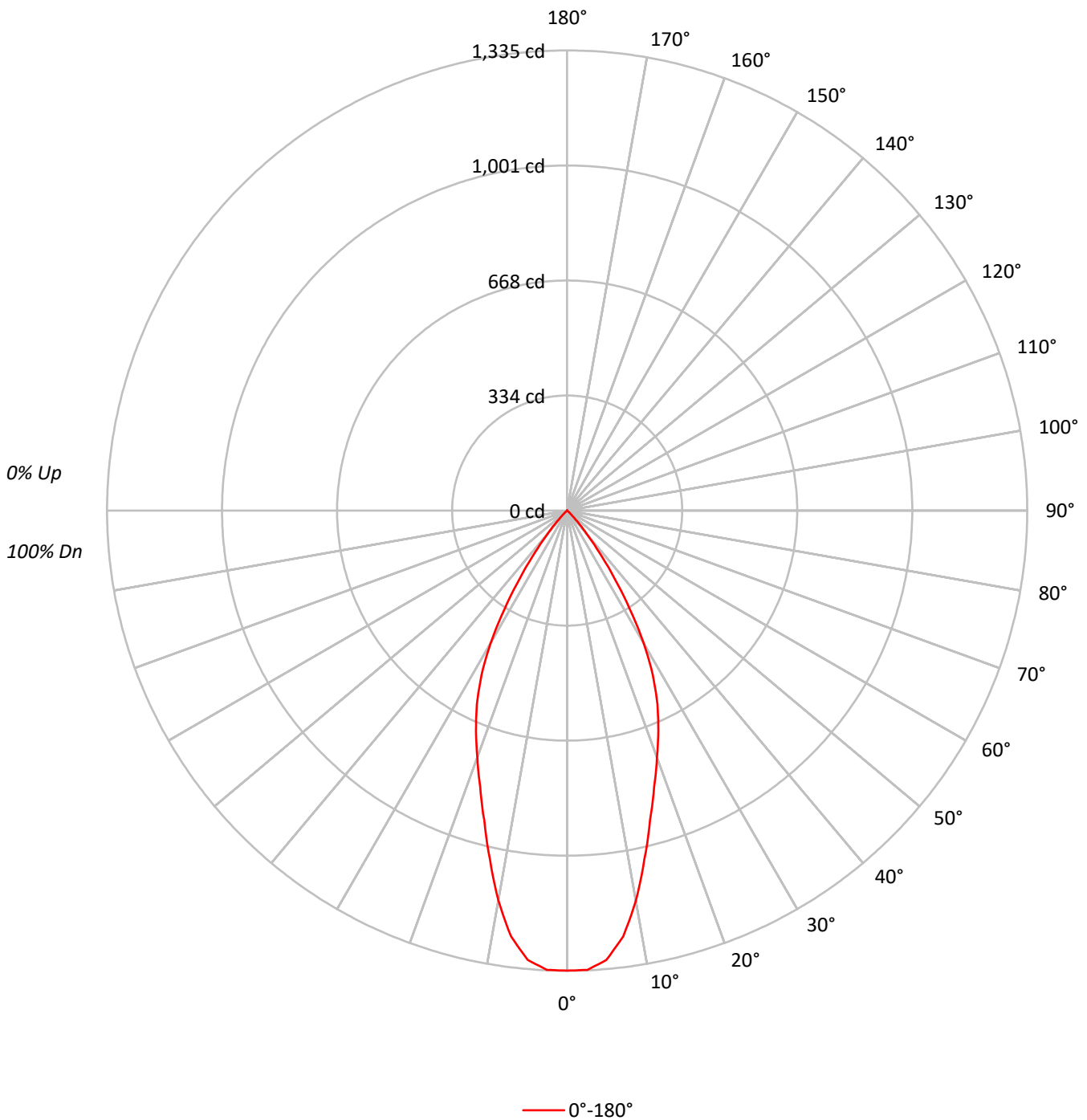
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	46	46	46	46	45	45	45	45	43	43	43	41	41	41	39	39	39	38
1	44	43	42	41	43	42	41	40	40	40	39	39	38	38	38	37	37	36
2	42	40	39	37	41	39	38	37	38	37	36	37	36	35	36	35	35	34
3	40	38	36	34	39	37	35	34	36	35	34	35	34	33	34	33	33	32
4	38	35	33	32	37	35	33	32	34	33	31	33	32	31	33	32	31	30
5	36	33	31	30	36	33	31	30	32	31	29	32	30	29	31	30	29	28
6	35	31	29	28	34	31	29	28	31	29	28	30	29	27	30	28	27	27
7	33	30	28	26	33	30	28	26	29	27	26	29	27	26	28	27	26	25
8	32	28	26	25	31	28	26	25	28	26	25	27	26	24	27	25	24	24
9	30	27	25	23	30	27	25	23	26	24	23	26	24	23	26	24	23	23
10	29	26	23	22	29	25	23	22	25	23	22	25	23	22	25	23	22	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	41157
5°	40500
10°	35984
15°	29689
20°	24995
25°	21088
30°	15788
35°	8929
40°	3526
45°	951
50°	182
55°	0
60°	25
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°	119.7	14.3	5.5	0°	1335	
10°-20°	260.9	31.2	12.0	5°	1308	120
20°-30°	279.5	33.4	12.8	15°	930	261
30°-40°	151.5	18.1	6.9	25°	620	280
40°-50°	23.6	2.8	1.1	35°	237	151
50°-60°	0.6	0.1	0.0	45°	22	24
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°	660.2	79.0	30.2	165°	0	0
0°-40°	811.7	97.1	37.2	175°	0	0
0°-60°	835.9	100.0	38.3	180°	0	0
0°-90°	836.0	100.0	38.3			
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°	836.0	100.0	38.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1334.7
2.5°	1333.7
5°	1308.4
7.5°	1246.0
10°	1149.2
12.5°	1036.0
15°	930.0
17.5°	840.1
20°	761.7
22.5°	691.3
25°	619.8
27.5°	538.6
30°	443.4
32.5°	338.2
35°	237.2
37.5°	151.9
40°	87.6
42.5°	46.7
45°	21.8
47.5°	11.9
50°	3.8
52.5°	0.4
55°	0.0
57.5°	0.4
60°	0.4
62.5°	0.0
65°	0.0
67.5°	0.4
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)