

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: P245640

Luminaire Tested: **LD8B10D010 ER8B10935 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245640  
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 ER8B10935 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 800.1 lumens  
Efficiency: 36.6%  
Efficacy: 78.4 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

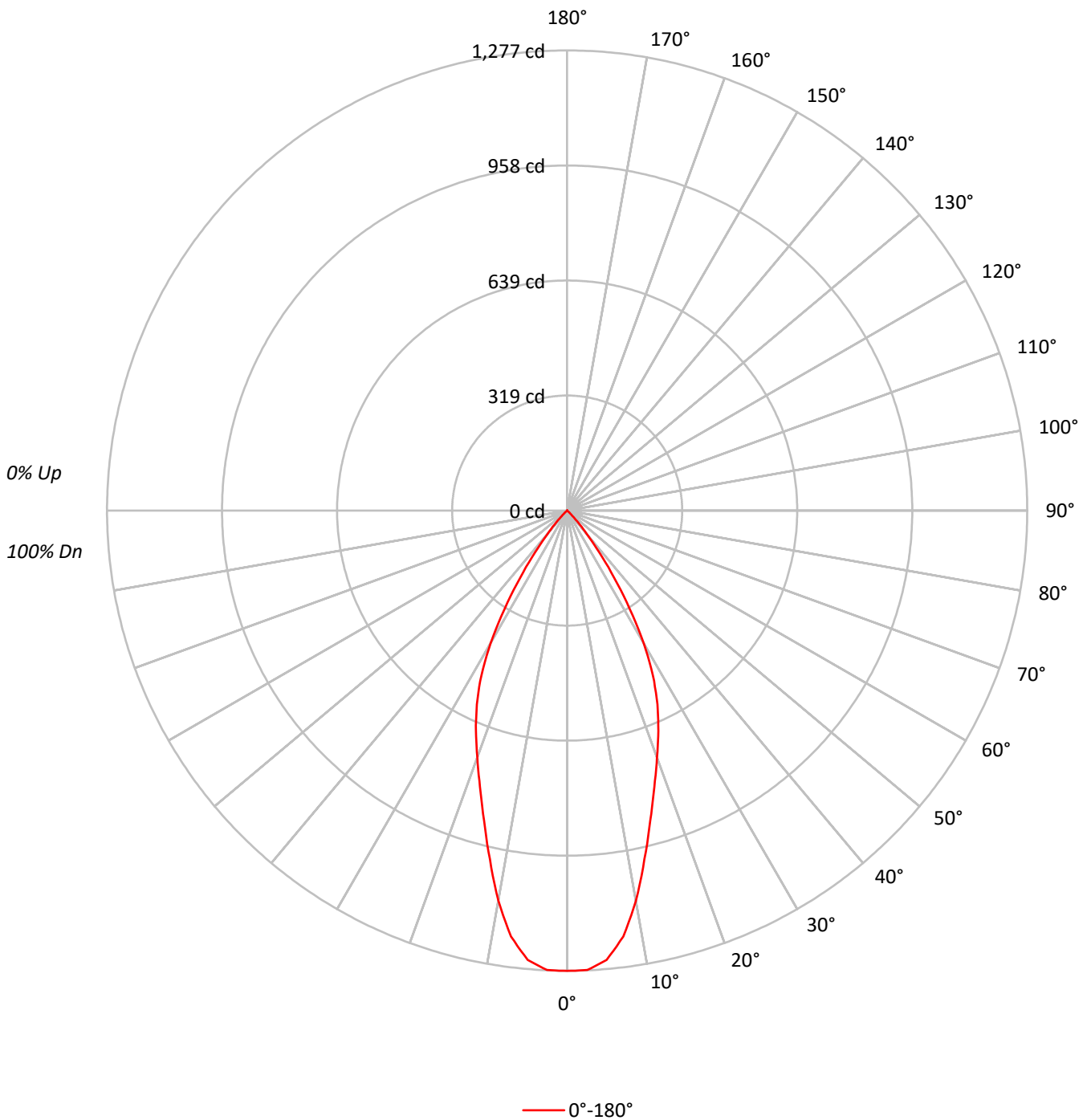
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	44	44	44	44	43	43	43	43	41	41	41		39	39	39		37	37	37	37
1	42	41	40	39	41	40	39	39	39	38	37		37	37	36		36	36	35	35
2	40	38	37	36	39	38	36	35	36	35	35		35	35	34		34	34	33	33
3	38	36	34	33	37	35	34	33	34	33	32		34	33	32		33	32	31	31
4	36	34	32	30	36	33	32	30	33	31	30		32	31	30		31	30	29	29
5	35	32	30	28	34	32	30	28	31	29	28		30	29	28		30	29	28	27
6	33	30	28	27	33	30	28	27	29	28	26		29	27	26		28	27	26	26
7	32	28	26	25	31	28	26	25	28	26	25		27	26	25		27	26	25	24
8	30	27	25	24	30	27	25	24	26	25	23		26	24	23		26	24	23	23
9	29	26	24	22	29	25	24	22	25	23	22		25	23	22		25	23	22	22
10	28	24	22	21	27	24	22	21	24	22	21		24	22	21		23	22	21	20

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

	0°
0°	39387
5°	38755
10°	34434
15°	28412
20°	23919
25°	20180
30°	15108
35°	8545
40°	3373
45°	911
50°	173
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°	114.6	14.3	5.2	0°	1277	
10°-20°	249.7	31.2	11.4	5°	1252	115
20°-30°	267.5	33.4	12.3	15°	890	250
30°-40°	145.0	18.1	6.6	25°	593	267
40°-50°	22.6	2.8	1.0	35°	227	145
50°-60°	0.6	0.1	0.0	45°	21	23
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°	631.8	79.0	28.9	165°	0	0
0°-40°	776.7	97.1	35.6	175°	0	0
0°-60°	799.9	100.0	36.6	180°	0	0
0°-90°	800.1	100.0	36.6			
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°	800.1	100.0	36.6			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1277.3
2.5°	1276.2
5°	1252.0
7.5°	1192.3
10°	1099.7
12.5°	991.4
15°	890.0
17.5°	803.9
20°	728.9
22.5°	661.5
25°	593.1
27.5°	515.4
30°	424.3
32.5°	323.6
35°	227.0
37.5°	145.4
40°	83.8
42.5°	44.7
45°	20.9
47.5°	11.4
50°	3.6
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)