

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: P245664

Luminaire Tested: **LD8B10D010 ER8B10930 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245664  
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 ER8B10930 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 774.6 lumens  
Efficiency: 35.5%  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

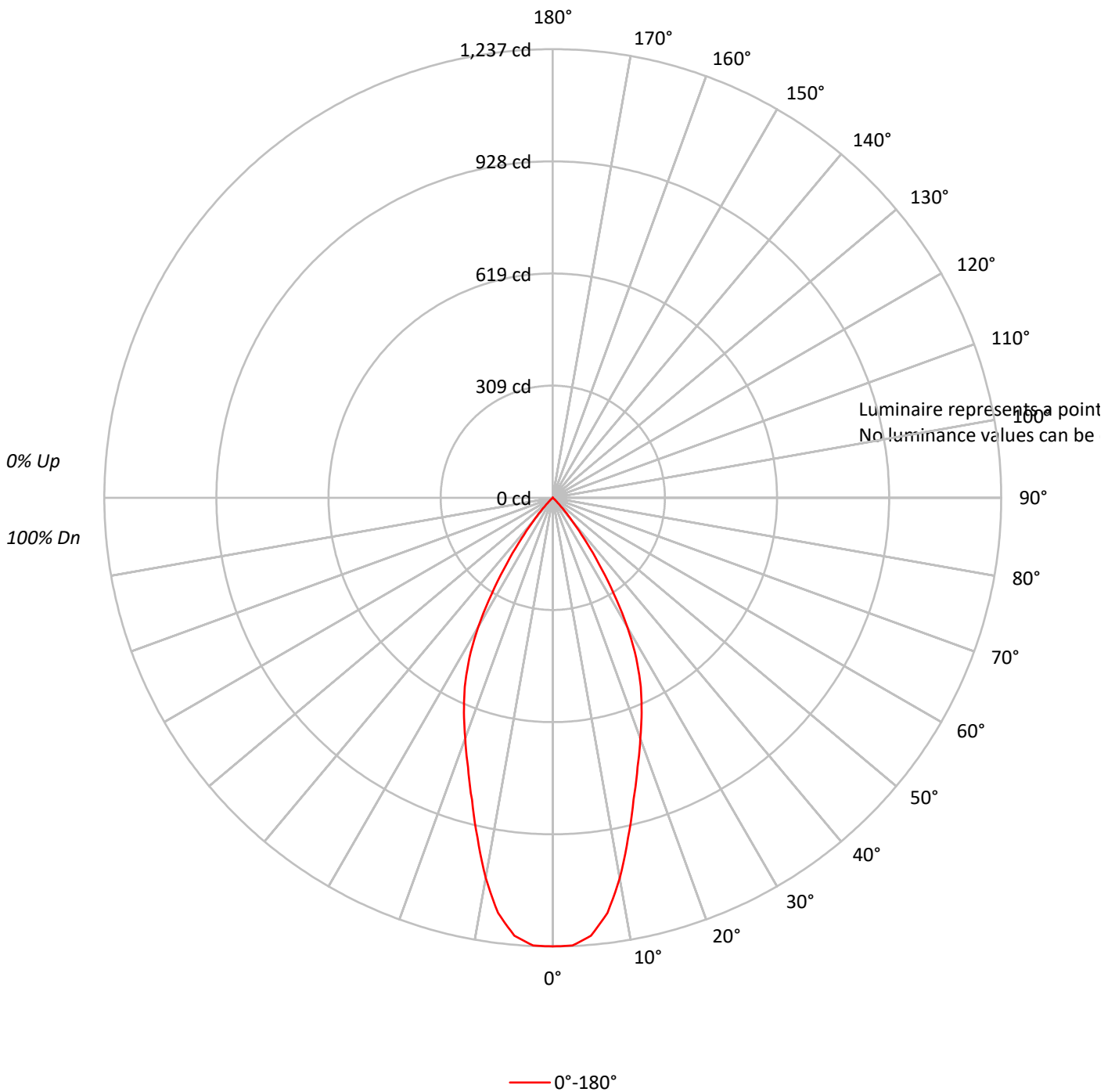
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	110.9	14.3	5.1	0°	1237	
10°-20°	241.8	31.2	11.1	5°	1212	111
20°-30°	259.0	33.4	11.9	15°	862	242
30°-40°	140.4	18.1	6.4	25°	574	259
40°-50°	21.9	2.8	1.0	35°	220	140
50°-60°	0.5	0.1	0.0	45°	20	22
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°	611.7	79.0	28.0	165°	0	0
0°-40°	752.1	97.1	34.5	175°	0	0
0°-60°	774.5	100.0	35.5	180°	0	0
0°-90°	774.6	100.0	35.5			
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°	774.6	100.0	35.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1236.7
2.5°	1235.7
5°	1212.2
7.5°	1154.5
10°	1064.8
12.5°	959.9
15°	861.7
17.5°	778.4
20°	705.8
22.5°	640.5
25°	574.3
27.5°	499.1
30°	410.8
32.5°	313.3
35°	219.8
37.5°	140.8
40°	81.2
42.5°	43.3
45°	20.2
47.5°	11.0
50°	3.5
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)