

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: P245644

Luminaire Tested: **LD8B40D010 ER8B40935 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245644  
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: LD8B40D010 ER8B40935 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: 3036.0 lumens  
Efficiency: 139.1%  
Efficacy: 74.2 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

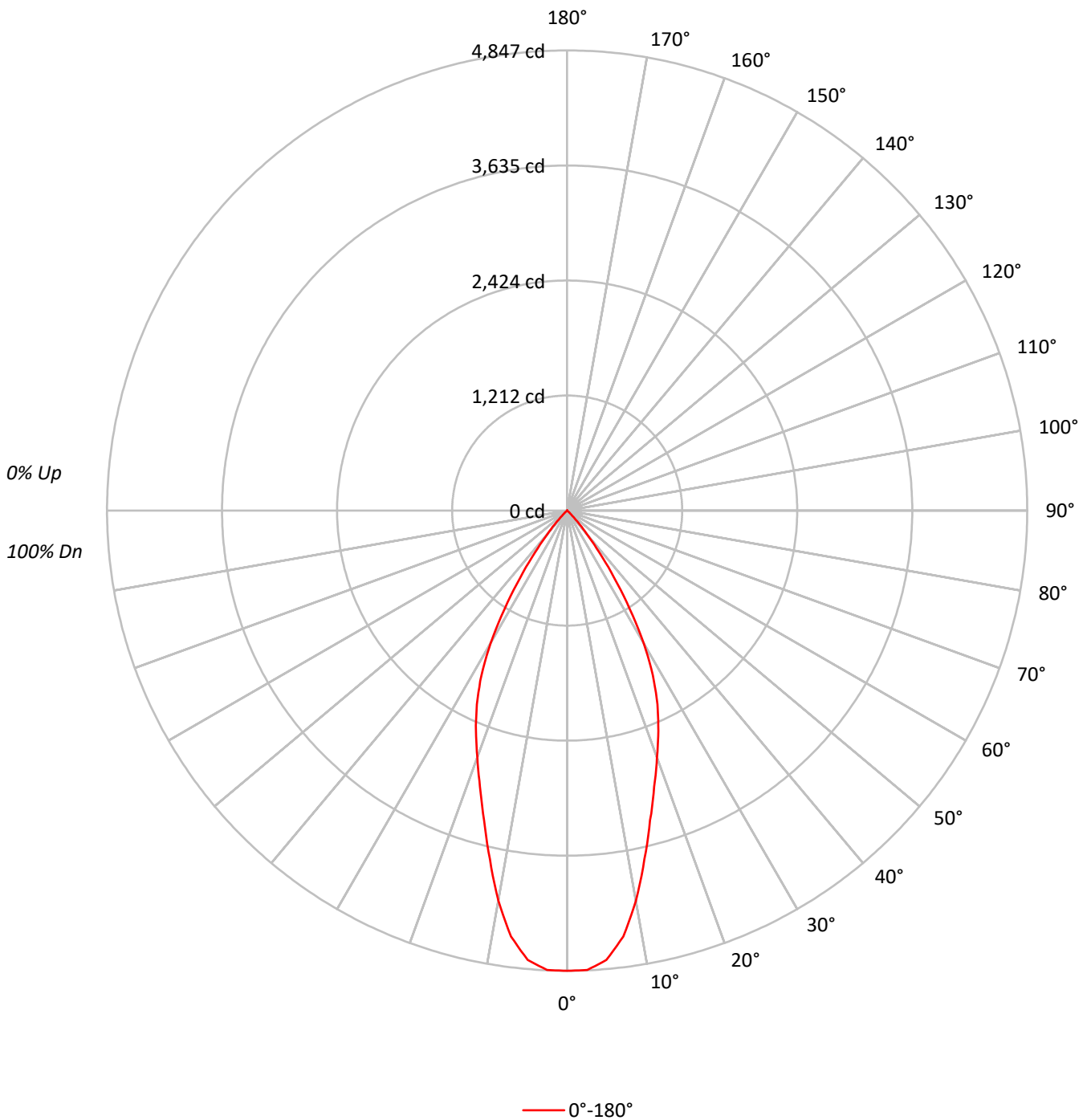
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	166	166	166	166	162	162	162	162	155	155	155	148	148	148	142	142	142	139	139	139
1	158	155	152	149	155	152	149	146	146	144	142	141	139	138	136	135	134	131	131	131
2	151	145	140	136	148	143	138	134	138	134	131	134	131	128	130	128	126	123	123	123
3	144	136	130	125	142	134	128	124	131	126	122	127	123	120	124	121	118	116	116	116
4	138	128	121	116	135	127	120	115	124	118	114	121	116	112	118	114	111	109	109	109
5	132	121	113	108	129	120	113	107	117	111	106	115	110	106	113	108	105	103	103	103
6	126	114	107	101	124	113	106	101	111	105	100	109	104	99	107	103	99	97	97	97
7	120	108	100	95	118	107	100	95	106	99	94	104	98	94	102	97	93	91	91	91
8	115	103	95	90	113	102	94	89	100	94	89	99	93	89	98	92	88	86	86	86
9	110	97	90	85	108	97	89	84	95	89	84	94	88	84	93	88	84	82	82	82
10	105	93	85	80	104	92	85	80	91	84	80	90	84	80	89	83	79	78	78	78

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

	0°
0°	149470
5°	147075
10°	130681
15°	107824
20°	90770
25°	76581
30°	57330
35°	32427
40°	12805
45°	3449
50°	662
55°	0
60°	86
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°	434.8	14.3	19.9	0°	4847	
10°-20°	947.7	31.2	43.4	5°	4751	435
20°-30°	1015.1	33.4	46.5	15°	3378	948
30°-40°	550.1	18.1	25.2	25°	2251	1015
40°-50°	85.6	2.8	3.9	35°	861	550
50°-60°	2.3	0.1	0.1	45°	79	86
60°-70°	0.5	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	1
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°	2397.6	79.0	109.8	165°	0	0
0°-40°	2947.6	97.1	135.0	175°	0	0
0°-60°	3035.5	100.0	139.1	180°	0	0
0°-90°	3036.0	100.0	139.1			
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°	3036.0	100.0	139.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4847.2
2.5°	4843.3
5°	4751.4
7.5°	4524.9
10°	4173.5
12.5°	3762.2
15°	3377.5
17.5°	3050.9
20°	2766.1
22.5°	2510.5
25°	2250.8
27.5°	1956.1
30°	1610.1
32.5°	1228.1
35°	861.4
37.5°	551.7
40°	318.1
42.5°	169.5
45°	79.1
47.5°	43.2
50°	13.8
52.5°	1.4
55°	0.0
57.5°	1.4
60°	1.4
62.5°	0.0
65°	0.0
67.5°	1.4
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)