

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: P245668

Luminaire Tested: **LD8B40D010 ER8B40930 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245668  
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 ER8B40930 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: 2940.3 lumens  
Efficiency: 134.7%  
Efficacy: 71.9 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

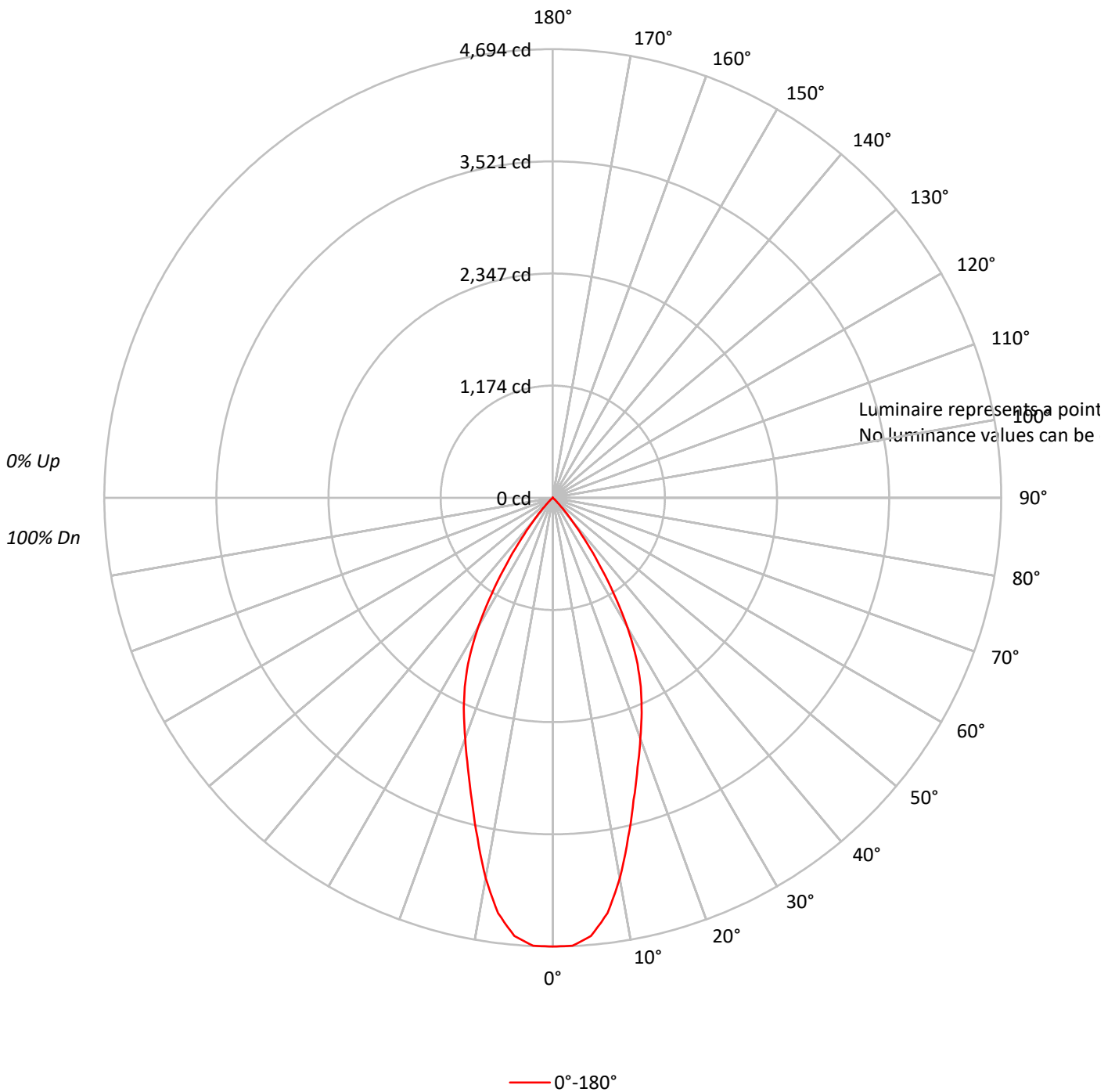
Input Watts (W): 40.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	160	160	160	160	157	157	157	157	150	150	150	143	143	143	137	137	137	135		
1	153	150	147	144	150	147	144	142	142	139	137	137	135	133	132	131	129	127		
2	147	141	135	131	144	138	134	130	134	130	127	130	127	124	126	124	122	120		
3	140	132	126	121	137	130	124	120	127	122	118	123	119	116	120	117	114	112		
4	134	124	117	112	131	123	116	111	120	114	110	117	113	109	115	111	108	106		
5	127	117	110	104	125	116	109	104	114	108	103	111	106	102	109	105	101	99		
6	122	111	103	98	120	110	103	98	108	101	97	106	100	96	104	99	96	94		
7	116	105	97	92	115	104	97	92	102	96	91	101	95	91	99	94	90	89		
8	111	99	92	87	110	99	91	87	97	91	86	96	90	86	95	89	85	84		
9	106	94	87	82	105	94	87	82	92	86	82	91	85	81	90	85	81	79		
10	102	90	82	78	101	89	82	78	88	82	77	87	81	77	86	81	77	75		

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	421.1	14.3	19.3	0°	4694	
10°-20°	917.8	31.2	42.0	5°	4602	421
20°-30°	983.1	33.4	45.0	15°	3271	918
30°-40°	532.7	18.1	24.4	25°	2180	983
40°-50°	82.9	2.8	3.8	35°	834	533
50°-60°	2.2	0.1	0.1	45°	77	83
60°-70°	0.5	0.0	0.0	55°	0	2
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°	2322.0	79.0	106.4	165°	0	0
0°-40°	2854.8	97.1	130.8	175°	0	0
0°-60°	2939.9	100.0	134.7	180°	0	0
0°-90°	2940.3	100.0	134.7			
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°	2940.3	100.0	134.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4694.5
2.5°	4690.7
5°	4601.8
7.5°	4382.4
10°	4042.1
12.5°	3643.7
15°	3271.1
17.5°	2954.8
20°	2679.0
22.5°	2431.4
25°	2179.9
27.5°	1894.5
30°	1559.4
32.5°	1189.4
35°	834.2
37.5°	534.3
40°	308.1
42.5°	164.1
45°	76.7
47.5°	41.8
50°	13.3
52.5°	1.3
55°	0.0
57.5°	1.3
60°	1.3
62.5°	0.0
65°	0.0
67.5°	1.3
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)