

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: P245602

Luminaire Tested: **LD8B40D010 ER8B40827 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245602
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 ER8B40827 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 2183 (1 lamp)
Luminaire Lumens: 3340.0 lumens
Efficiency: 153.0%
Efficacy: 81.7 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

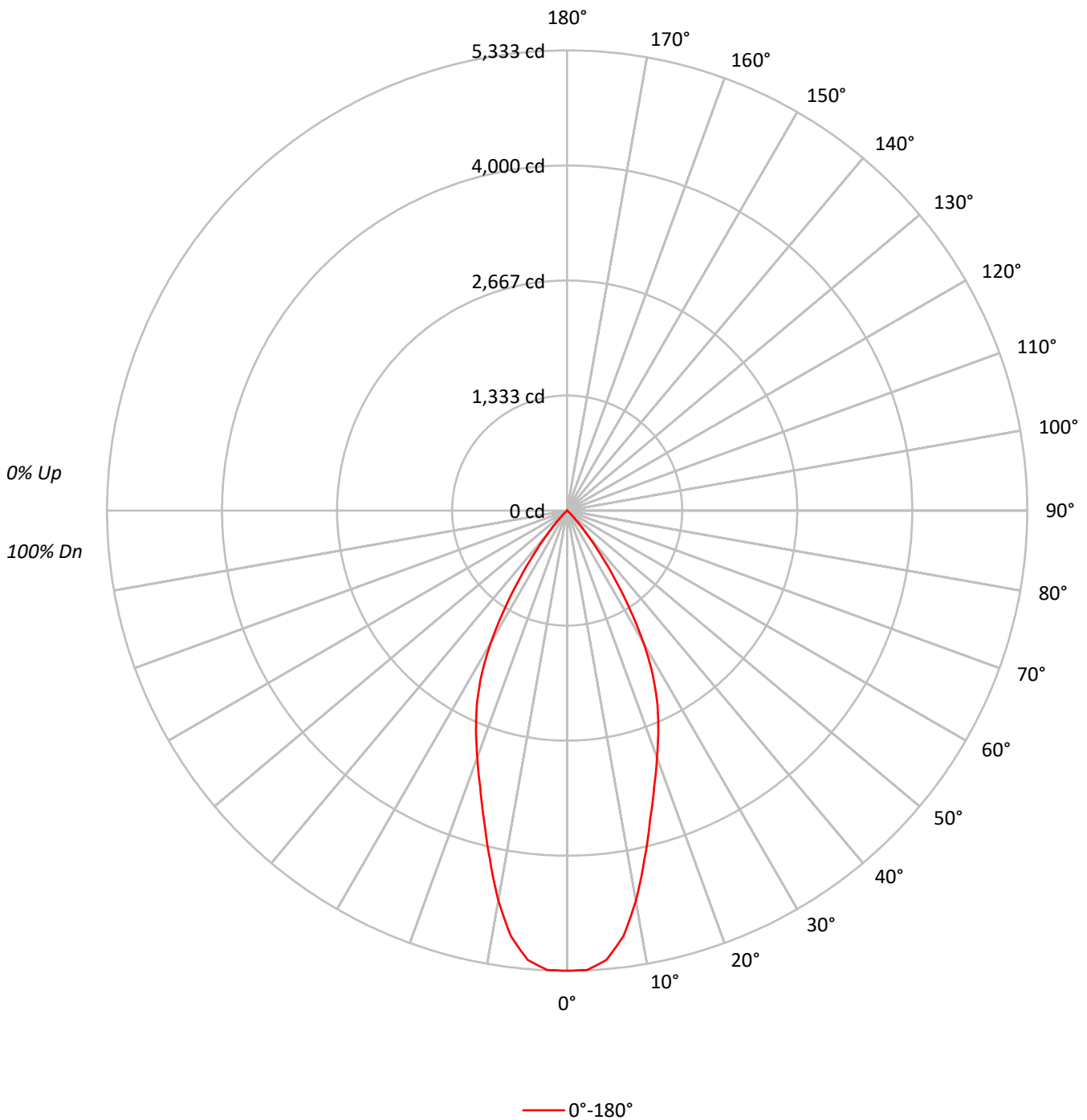
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245602

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P245602

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBN0GPH

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	182	182	182	182	178	178	178	178	170	170	170	163	163	163	156	156	156	153			
1	174	170	167	164	171	167	164	161	161	158	156	155	153	151	150	149	147	144			
2	167	160	154	149	163	157	152	147	152	148	144	148	144	141	143	141	138	136			
3	159	150	143	137	156	148	141	136	144	138	134	140	136	132	137	133	130	128			
4	152	141	133	127	149	139	132	127	136	130	125	133	128	124	130	126	122	120			
5	145	133	125	119	142	132	124	118	129	122	117	126	121	116	124	119	115	113			
6	138	126	117	111	136	124	117	111	122	115	110	120	114	109	118	113	109	107			
7	132	119	110	104	130	118	110	104	116	109	104	114	108	103	113	107	103	101			
8	126	113	104	99	125	112	104	98	110	103	98	109	102	97	107	102	97	95			
9	121	107	99	93	119	106	98	93	105	98	93	104	97	92	102	96	92	90			
10	116	102	94	88	114	101	93	88	100	93	88	99	92	88	98	92	87	86			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164438
5°	161803
10°	143766
15°	118620
20°	99857
25°	84250
30°	63074
35°	35672
40°	14085
45°	3798
50°	729
55°	0
60°	93
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P245602

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBN0GPH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	478.3	14.3	21.9	0°	5333	
10°-20°	1042.5	31.2	47.8	5°	5227	478
20°-30°	1116.8	33.4	51.2	15°	3716	1043
30°-40°	605.2	18.1	27.7	25°	2476	1117
40°-50°	94.2	2.8	4.3	35°	948	605
50°-60°	2.5	0.1	0.1	45°	87	94
60°-70°	0.6	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°	2637.6	79.0	120.8	165°	0	0
0°-40°	3242.8	97.1	148.5	175°	0	0
0°-60°	3339.5	100.0	153.0	180°	0	0
0°-90°	3340.0	100.0	153.0			
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°	3340.0	100.0	153.0			



TEST NUMBER: P245602

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	5332.6
2.5°	5328.2
5°	5227.2
7.5°	4978.0
10°	4591.4
12.5°	4138.9
15°	3715.7
17.5°	3356.4
20°	3043.0
22.5°	2761.9
25°	2476.2
27.5°	2151.9
30°	1771.4
32.5°	1351.1
35°	947.6
37.5°	606.9
40°	349.9
42.5°	186.5
45°	87.1
47.5°	47.5
50°	15.2
52.5°	1.5
55°	0.0
57.5°	1.5
60°	1.5
62.5°	0.0
65°	0.0
67.5°	1.5
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



TEST NUMBER: P245602

CATALOG NUMBER: LD8B40D010 ER8B40827 8LBN0GPH

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)