

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: P245603

Luminaire Tested: **LD8B50D010 ER8B50827 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245603  
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: LD8B50D010 ER8B50827 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: 4179.0 lumens  
Efficiency: 191.4%  
Efficacy: 78.8 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

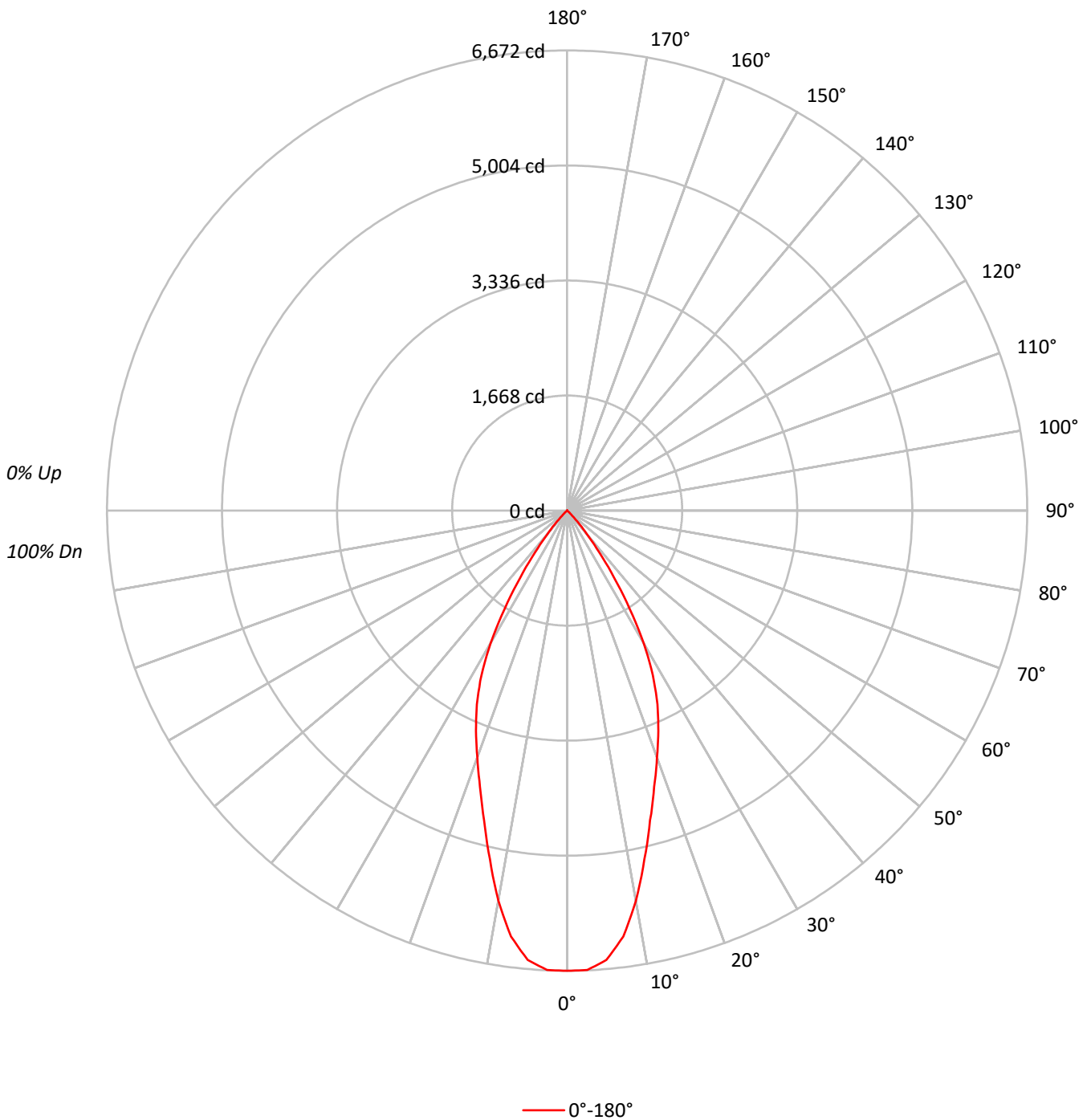
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245603

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245603

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0GPH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20	20	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	
RCR																		
0	228	228	228	228	223	223	223	223	213	213	213	204	204	204	195	195	195	191
1	218	213	209	205	213	209	205	201	201	198	195	194	192	190	188	186	184	181
2	208	200	193	187	204	196	190	184	190	185	180	185	180	177	179	176	173	170
3	199	188	179	172	195	185	177	170	180	173	168	175	170	165	171	167	163	160
4	190	176	167	159	186	174	165	158	170	163	156	167	160	155	163	158	153	150
5	181	166	156	149	178	165	155	148	161	153	147	158	151	145	155	149	144	141
6	173	157	147	139	170	156	146	139	153	144	138	150	143	137	148	141	136	133
7	165	149	138	131	163	148	138	130	145	136	130	143	135	129	141	134	128	126
8	158	141	131	123	156	140	130	123	138	129	122	136	128	122	134	127	121	119
9	151	134	124	116	149	133	123	116	131	122	116	130	121	116	128	121	115	113
10	145	128	117	110	143	127	117	110	125	116	110	124	116	110	122	115	109	107

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

	0°
0°	205743
5°	202446
10°	179881
15°	148415
20°	124941
25°	105413
30°	78915
35°	44635
40°	17623
45°	4749
50°	911
55°	0
60°	117
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P245603

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0GPH

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	598.5	14.3	27.4	0°	6672	
10°-20°	1304.4	31.2	59.8	5°	6540	598
20°-30°	1397.3	33.4	64.0	15°	4649	1304
30°-40°	757.2	18.1	34.7	25°	3098	1397
40°-50°	117.8	2.8	5.4	35°	1186	757
50°-60°	3.1	0.1	0.1	45°	109	118
60°-70°	0.7	0.0	0.0	55°	0	3
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°	3300.2	79.0	151.2	165°	0	0
0°-40°	4057.4	97.1	185.9	175°	0	0
0°-60°	4178.3	100.0	191.4	180°	0	0
0°-90°	4179.0	100.0	191.4			
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°	4179.0	100.0	191.4			



TEST NUMBER: P245603

CATALOG NUMBER: LD8B50D010 ER8B50827 8LBN0GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6672.1
2.5°	6666.7
5°	6540.2
7.5°	6228.5
10°	5744.8
12.5°	5178.6
15°	4649.0
17.5°	4199.5
20°	3807.4
22.5°	3455.6
25°	3098.2
27.5°	2692.5
30°	2216.3
32.5°	1690.5
35°	1185.7
37.5°	759.4
40°	437.8
42.5°	233.3
45°	108.9
47.5°	59.5
50°	19.0
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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: P245603

CATALOG NUMBER: LD8B50D010 ER8B50827 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)