

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: P246371

Luminaire Tested: **LD8B50D010 ER8B50940 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B50940 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2820.0 lumens  
Efficiency: 149.4%  
Efficacy: 53.2 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

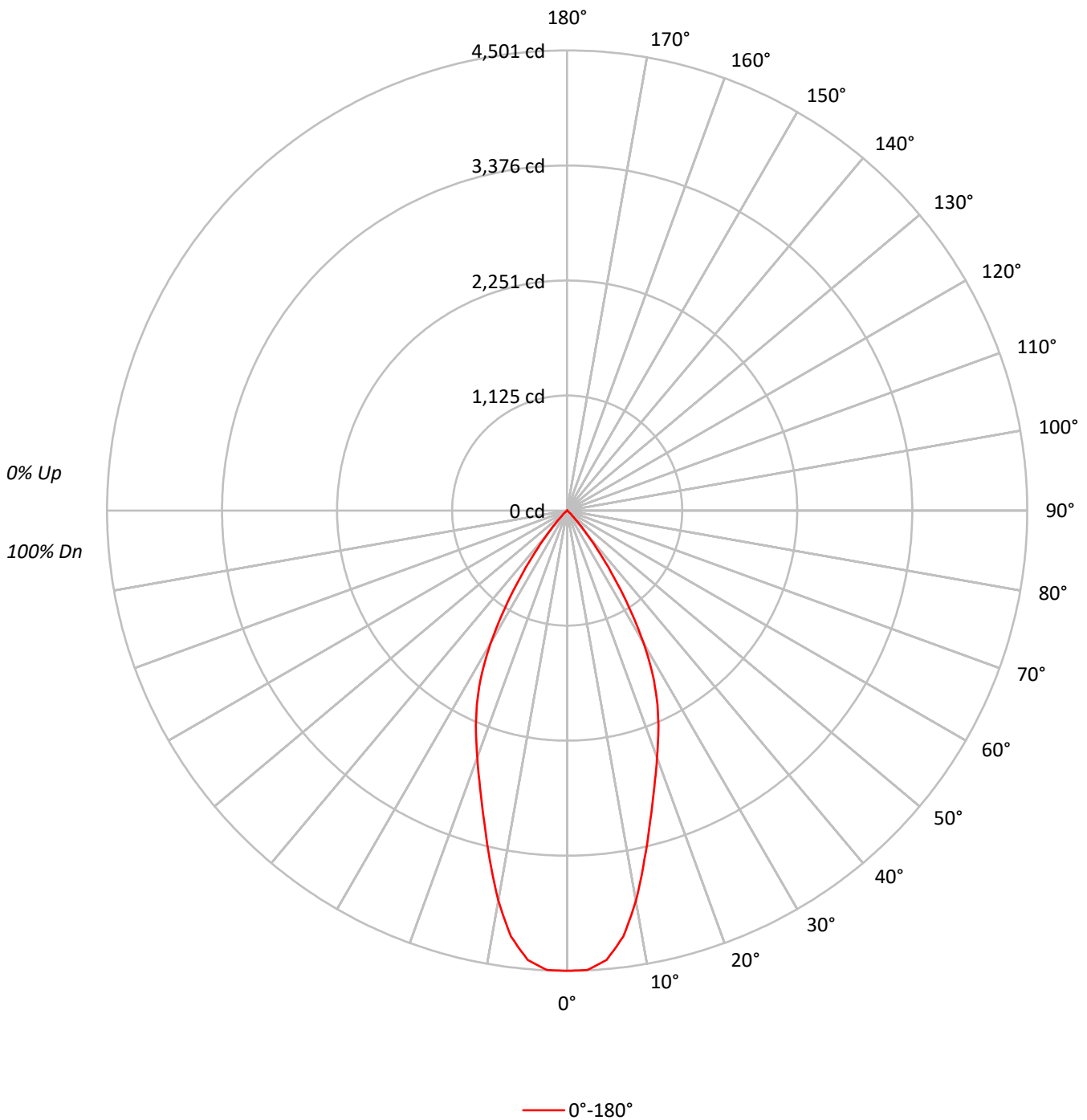
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	178	178	178	178	174	174	174	174	166	166	166	159	159	159	152	152	152	149	149	149
1	170	166	163	160	167	163	160	157	157	155	152	152	150	148	147	145	144	141	141	141
2	163	156	150	146	159	153	148	144	149	144	141	144	141	138	140	137	135	133	133	133
3	155	146	140	134	152	144	138	133	140	135	131	137	133	129	134	130	127	125	125	125
4	148	138	130	124	146	136	129	124	133	127	122	130	125	121	127	123	119	117	117	117
5	141	130	122	116	139	129	121	115	126	119	114	124	118	113	121	116	112	110	110	110
6	135	123	114	109	133	122	114	108	119	113	107	117	111	107	115	110	106	104	104	104
7	129	116	108	102	127	115	107	102	113	106	101	112	105	101	110	104	100	98	98	98
8	123	110	102	96	122	109	101	96	108	101	96	106	100	95	105	99	95	93	93	93
9	118	105	96	91	116	104	96	91	103	95	90	101	95	90	100	94	90	88	88	88
10	113	100	92	86	112	99	91	86	98	91	86	97	90	86	96	90	85	84	84	84

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

	0°
0°	138800
5°	136607
10°	121356
15°	100136
20°	84312
25°	71117
30°	53268
35°	30127
40°	11895
45°	3183
50°	643
55°	0
60°	93
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°	403.8	14.3	21.4	0°	4501	
10°-20°	880.2	31.2	46.6	5°	4413	404
20°-30°	942.9	33.4	50.0	15°	3137	880
30°-40°	511.0	18.1	27.1	25°	2090	943
40°-50°	79.4	2.8	4.2	35°	800	511
50°-60°	2.3	0.1	0.1	45°	73	79
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°	2226.9	79.0	118.0	165°	0	0
0°-40°	2737.8	97.1	145.1	175°	0	0
0°-60°	2819.5	100.0	149.4	180°	0	0
0°-90°	2820.0	100.0	149.4			
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°	2820.0	100.0	149.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4501.2
2.5°	4498.2
5°	4413.2
7.5°	4202.7
10°	3875.7
12.5°	3494.9
15°	3136.7
17.5°	2833.6
20°	2569.3
22.5°	2332.0
25°	2090.2
27.5°	1817.0
30°	1496.0
32.5°	1140.6
35°	800.3
37.5°	512.2
40°	295.5
42.5°	158.2
45°	73.0
47.5°	38.8
50°	13.4
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



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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)