

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: P246365

Luminaire Tested: **LD8B50D010 ER8B50935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246365  
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 ER8B50935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2700.0 lumens  
Efficiency: 143.1%  
Efficacy: 50.9 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

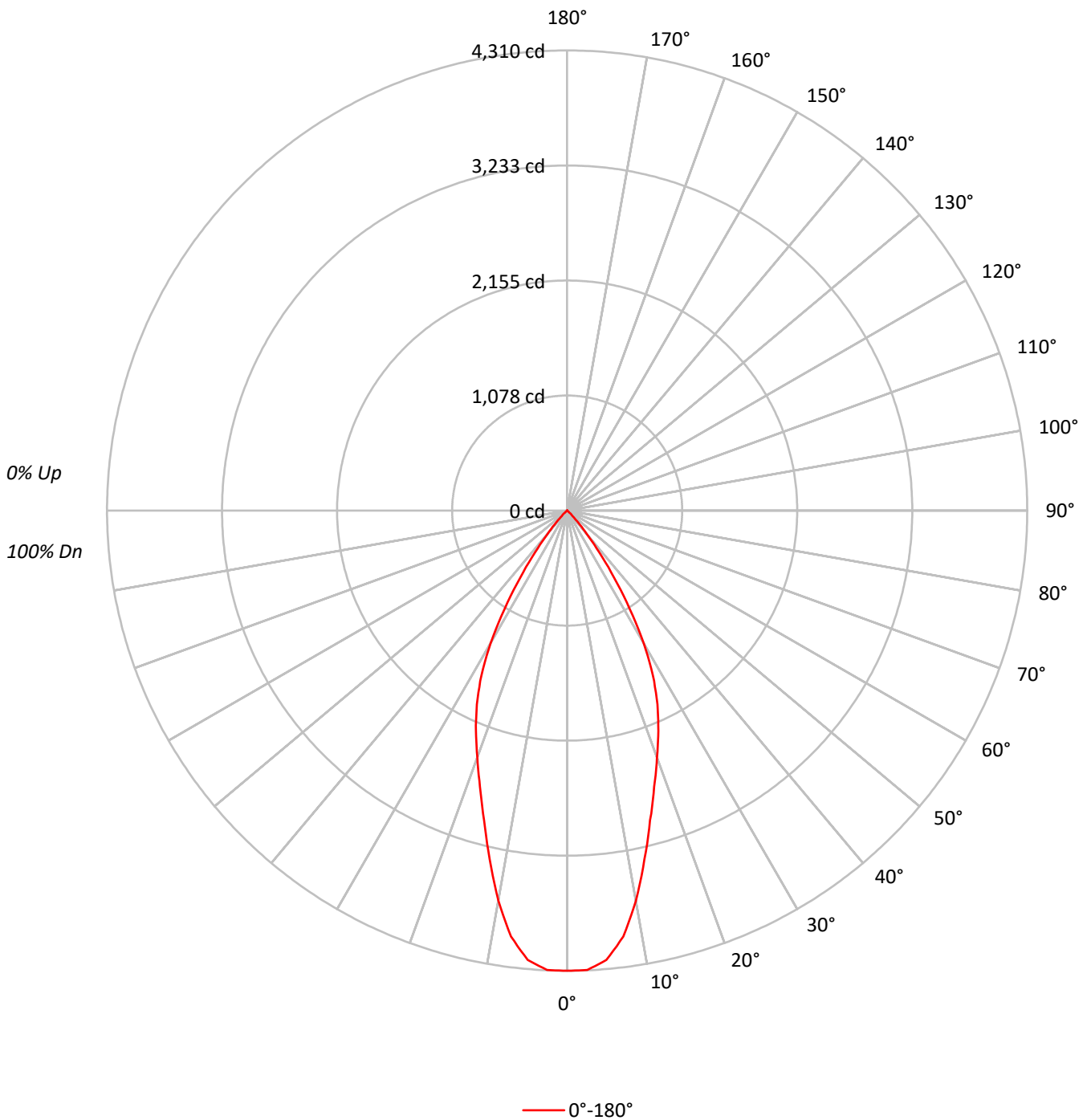
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	170	170	170	170	166	166	166	166	159	159	159	152	152	152	146	146	146	143
1	163	159	156	153	160	156	153	151	150	148	146	145	143	142	140	139	138	135
2	156	149	144	139	153	147	142	138	142	138	135	138	135	132	134	132	129	127
3	149	140	134	128	146	138	132	127	135	129	125	131	127	123	128	124	121	119
4	142	132	125	119	139	130	124	118	127	122	117	125	120	116	122	118	114	112
5	135	124	117	111	133	123	116	111	121	114	110	118	113	109	116	111	108	106
6	129	118	110	104	127	116	109	104	114	108	103	112	107	102	111	106	102	100
7	124	111	103	98	122	110	103	97	109	102	97	107	101	96	105	100	96	94
8	118	105	98	92	116	105	97	92	103	96	92	102	96	91	100	95	91	89
9	113	100	92	87	111	100	92	87	98	91	87	97	91	86	96	90	86	84
10	108	95	88	82	107	95	87	82	94	87	82	93	86	82	92	86	82	80

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

	0°
0°	132892
5°	130793
10°	116193
15°	95874
20°	80726
25°	68089
30°	50999
35°	28843
40°	11392
45°	3048
50°	614
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°	386.6	14.3	20.5	0°	4310	
10°-20°	842.7	31.2	44.7	5°	4225	387
20°-30°	902.7	33.4	47.8	15°	3003	843
30°-40°	489.2	18.1	25.9	25°	2001	903
40°-50°	76.0	2.8	4.0	35°	766	489
50°-60°	2.2	0.1	0.1	45°	70	76
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°	2132.1	79.0	113.0	165°	0	0
0°-40°	2621.3	97.1	138.9	175°	0	0
0°-60°	2699.5	100.0	143.1	180°	0	0
0°-90°	2700.0	100.0	143.1			
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°	2700.0	100.0	143.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4309.6
2.5°	4306.8
5°	4225.4
7.5°	4023.8
10°	3710.8
12.5°	3346.2
15°	3003.2
17.5°	2713.0
20°	2460.0
22.5°	2232.7
25°	2001.2
27.5°	1739.6
30°	1432.3
32.5°	1092.1
35°	766.2
37.5°	490.4
40°	283.0
42.5°	151.5
45°	69.9
47.5°	37.1
50°	12.8
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)