

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: P246377

Luminaire Tested: **LD8B50D010 ER8B50950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246377  
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 ER8B50950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2920.0 lumens  
Efficiency: 154.7%  
Efficacy: 55.1 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

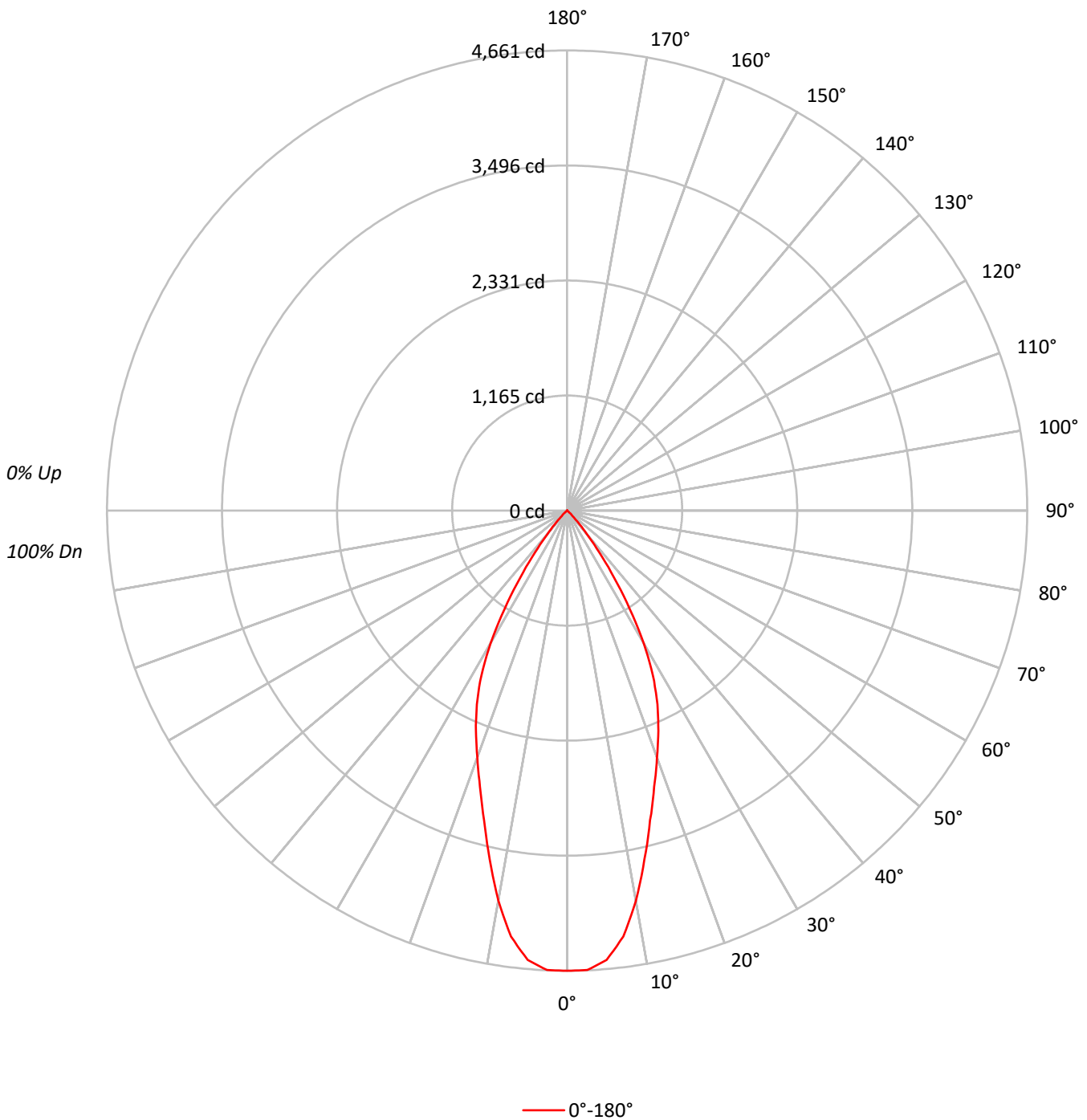
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	184	184	184	184	180	180	180	180	172	172	172	165	165	165	158	158	158	155			
1	176	172	169	165	173	169	166	163	163	160	158	157	155	153	152	150	149	146			
2	168	161	156	151	165	159	154	149	154	150	146	149	146	143	145	142	140	137			
3	161	152	144	139	158	149	143	138	145	140	136	142	137	133	138	135	131	129			
4	153	143	135	129	151	141	134	128	138	131	126	135	129	125	132	127	124	121			
5	146	135	126	120	144	133	125	120	130	124	118	128	122	117	126	120	116	114			
6	140	127	119	112	138	126	118	112	124	117	111	122	115	111	120	114	110	108			
7	134	120	112	106	132	119	111	105	117	110	105	116	109	104	114	108	104	102			
8	128	114	106	100	126	113	105	99	112	104	99	110	103	99	109	103	98	96			
9	122	108	100	94	121	108	100	94	106	99	94	105	98	93	104	98	93	91			
10	117	103	95	89	116	102	94	89	101	94	89	100	93	89	99	93	88	87			

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

	0°
0°	143722
5°	141451
10°	125658
15°	103686
20°	87305
25°	73638
30°	55155
35°	31196
40°	12318
45°	3297
50°	662
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°	418.1	14.3	22.2	0°	4661	
10°-20°	911.4	31.2	48.3	5°	4570	418
20°-30°	976.3	33.4	51.7	15°	3248	911
30°-40°	529.1	18.1	28.0	25°	2164	976
40°-50°	82.2	2.8	4.4	35°	829	529
50°-60°	2.3	0.1	0.1	45°	76	82
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°	2305.8	79.0	122.2	165°	0	0
0°-40°	2834.9	97.1	150.2	175°	0	0
0°-60°	2919.4	100.0	154.7	180°	0	0
0°-90°	2920.0	100.0	154.7			
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°	2920.0	100.0	154.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4660.8
2.5°	4657.7
5°	4569.7
7.5°	4351.7
10°	4013.1
12.5°	3618.9
15°	3247.9
17.5°	2934.1
20°	2660.5
22.5°	2414.7
25°	2164.3
27.5°	1881.4
30°	1549.0
32.5°	1181.1
35°	828.7
37.5°	530.4
40°	306.0
42.5°	163.8
45°	75.6
47.5°	40.2
50°	13.8
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)