

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: P251364

Luminaire Tested: **LD8B60D010 ER8B60935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251364  
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: LD8B60D010 ER8B60935 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: 3059.0 lumens  
Efficiency: 162.1%  
Efficacy: 51.4 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

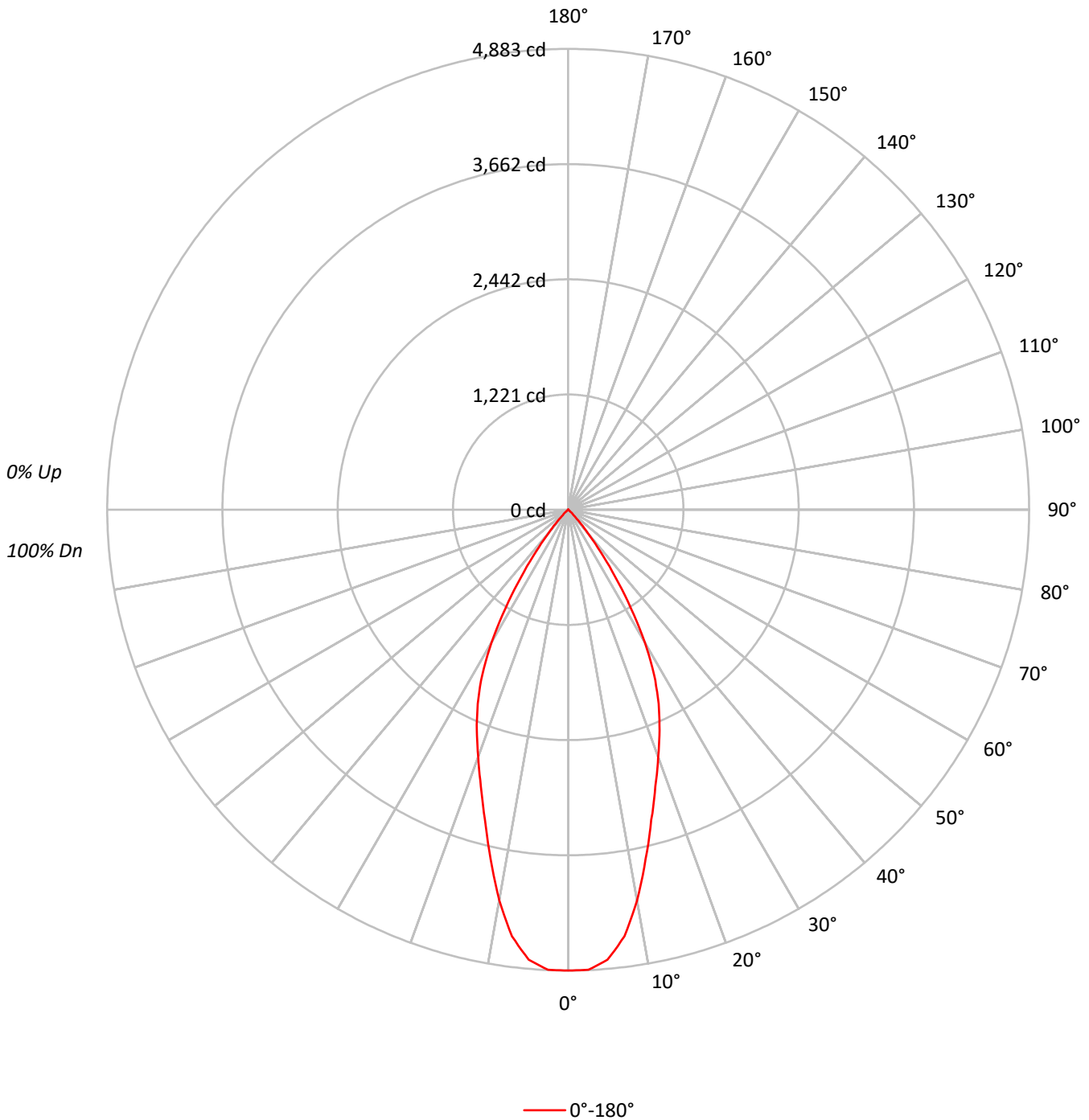
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	193	193	193	193	189	189	189	189	180	180	180	172	172	172	165	165	165	162	162	162	162	162
1	185	181	177	173	181	177	174	171	171	168	165	165	162	160	159	157	156	153	153	153	153	153
2	176	169	163	158	173	166	161	156	161	157	153	156	153	150	152	149	146	144	144	144	144	144
3	168	159	151	145	165	157	150	144	152	147	142	149	144	140	145	141	138	135	135	135	135	135
4	161	149	141	135	158	148	140	134	144	138	133	141	135	131	138	133	129	127	127	127	127	127
5	153	141	132	126	151	139	131	125	137	130	124	134	128	123	132	126	122	120	120	120	120	120
6	146	133	124	118	144	132	123	117	130	122	117	127	121	116	125	120	115	113	113	113	113	113
7	140	126	117	111	138	125	116	110	123	115	110	121	114	109	119	113	109	107	107	107	107	107
8	134	120	111	104	132	119	110	104	117	109	104	115	108	103	114	108	103	101	101	101	101	101
9	128	114	105	99	126	113	104	98	111	104	98	110	103	98	109	102	98	95	95	95	95	95
10	123	108	99	93	121	107	99	93	106	98	93	105	98	93	104	97	93	91	91	91	91	91

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

	0°
0°	150561
5°	148183
10°	131642
15°	108622
20°	91460
25°	77143
30°	57783
35°	32679
40°	12905
45°	3454
50°	696
55°	0
60°	99
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°	438.0	14.3	23.2	0°	4883	
10°-20°	954.8	31.2	50.6	5°	4787	438
20°-30°	1022.8	33.4	54.2	15°	3402	955
30°-40°	554.3	18.1	29.4	25°	2267	1023
40°-50°	86.1	2.8	4.6	35°	868	554
50°-60°	2.5	0.1	0.1	45°	79	86
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°	2415.6	79.0	128.0	165°	0	0
0°-40°	2969.9	97.1	157.4	175°	0	0
0°-60°	3058.4	100.0	162.1	180°	0	0
0°-90°	3059.0	100.0	162.1			
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°	3059.0	100.0	162.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4882.6
2.5°	4879.5
5°	4787.2
7.5°	4558.9
10°	4204.2
12.5°	3791.1
15°	3402.5
17.5°	3073.8
20°	2787.1
22.5°	2529.6
25°	2267.3
27.5°	1970.9
30°	1622.8
32.5°	1237.3
35°	868.1
37.5°	555.7
40°	320.6
42.5°	171.6
45°	79.2
47.5°	42.1
50°	14.5
52.5°	1.6
55°	0.0
57.5°	1.6
60°	1.6
62.5°	0.0
65°	0.0
67.5°	1.6
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)