

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: P251366

Luminaire Tested: **LD8B60D010 ER8B60940 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251366  
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 ER8B60940 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: 3195.0 lumens  
Efficiency: 169.3%  
Efficacy: 53.7 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

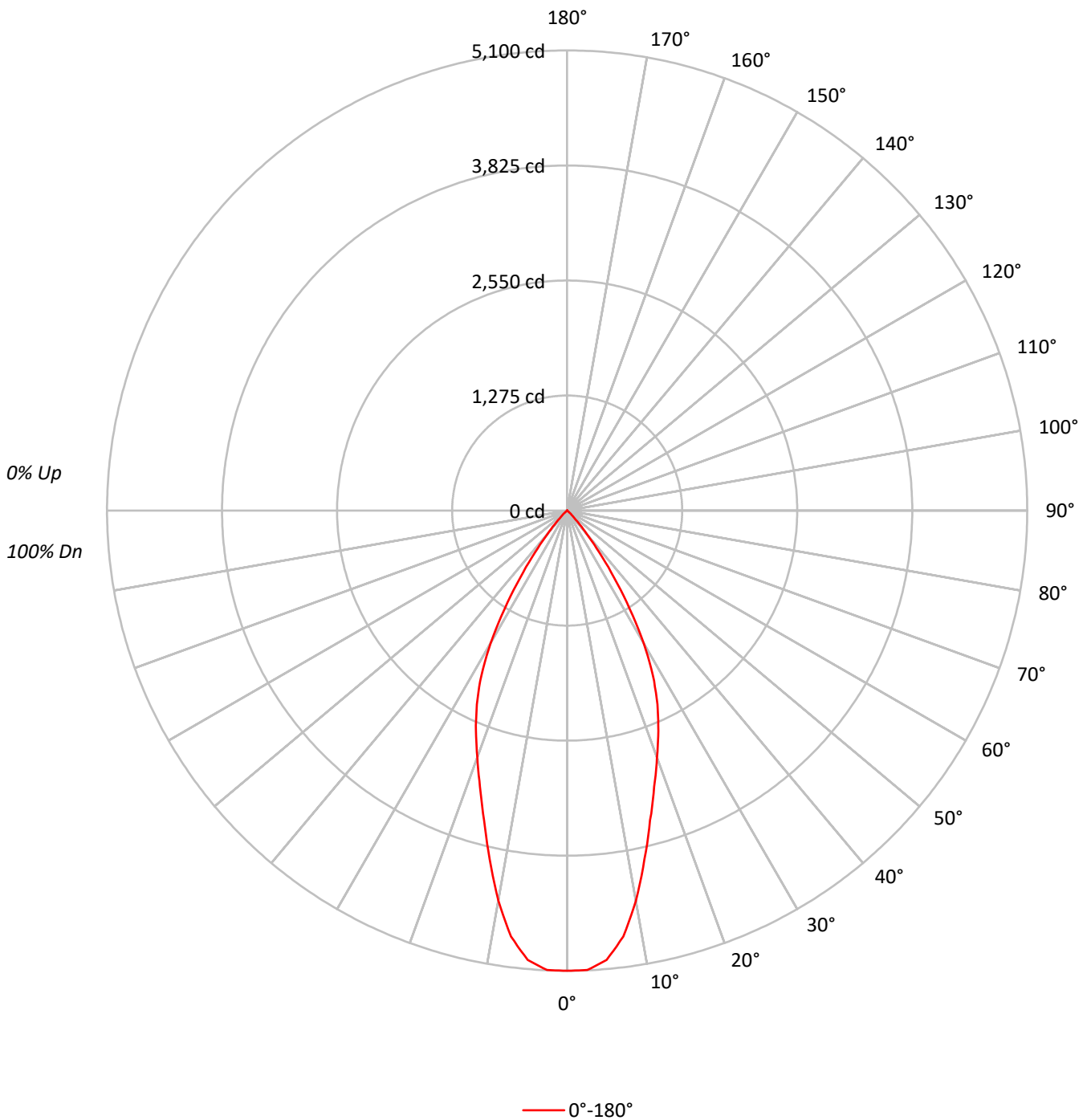
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
RC	80	70	50	30	10	0	0	0	0	0	0	0	0	0				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10				
RCR																		
0	202	202	202	202	197	197	197	197	188	188	188	180	180	180	173	173	173	169
1	193	189	185	181	189	185	181	178	178	175	173	172	170	168	166	164	163	160
2	184	177	170	165	181	174	168	163	168	164	160	163	160	156	159	156	153	150
3	176	166	158	152	173	164	156	151	159	153	148	155	150	146	151	147	144	141
4	168	156	147	141	165	154	146	140	151	144	138	147	142	137	144	139	135	133
5	160	147	138	131	158	146	137	131	143	135	130	140	134	128	137	132	127	125
6	153	139	130	123	151	138	129	123	135	128	122	133	126	121	131	125	120	118
7	146	132	122	116	144	131	122	115	128	121	115	126	119	114	125	118	114	111
8	140	125	115	109	138	124	115	109	122	114	108	120	113	108	119	112	107	105
9	134	119	109	103	132	118	109	103	116	108	103	115	107	102	113	107	102	100
10	128	113	104	98	126	112	103	97	111	103	97	110	102	97	108	102	97	95

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

	0°
0°	157256
5°	154771
10°	137494
15°	113452
20°	95525
25°	80572
30°	60350
35°	34132
40°	13477
45°	3606
50°	724
55°	0
60°	105
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°	457.5	14.3	24.2	0°	5100	
10°-20°	997.2	31.2	52.8	5°	5000	458
20°-30°	1068.3	33.4	56.6	15°	3554	997
30°-40°	578.9	18.1	30.7	25°	2368	1068
40°-50°	89.9	2.8	4.8	35°	907	579
50°-60°	2.6	0.1	0.1	45°	83	90
60°-70°	0.6	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°	2523.0	79.0	133.7	165°	0	0
0°-40°	3101.9	97.1	164.4	175°	0	0
0°-60°	3194.4	100.0	169.3	180°	0	0
0°-90°	3195.0	100.0	169.3			
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°	3195.0	100.0	169.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5099.7
2.5°	5096.4
5°	5000.0
7.5°	4761.5
10°	4391.1
12.5°	3959.7
15°	3553.8
17.5°	3210.4
20°	2911.0
22.5°	2642.1
25°	2368.1
27.5°	2058.6
30°	1694.9
32.5°	1292.3
35°	906.7
37.5°	580.4
40°	334.8
42.5°	179.2
45°	82.7
47.5°	43.9
50°	15.1
52.5°	1.7
55°	0.0
57.5°	1.7
60°	1.7
62.5°	0.0
65°	0.0
67.5°	1.7
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)