

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: P251362

Luminaire Tested: **LD8B60D010 ER8B609730 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251362  
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 ER8B609730 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2962.9 lumens  
Efficiency: 157.0%  
Efficacy: 49.8 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

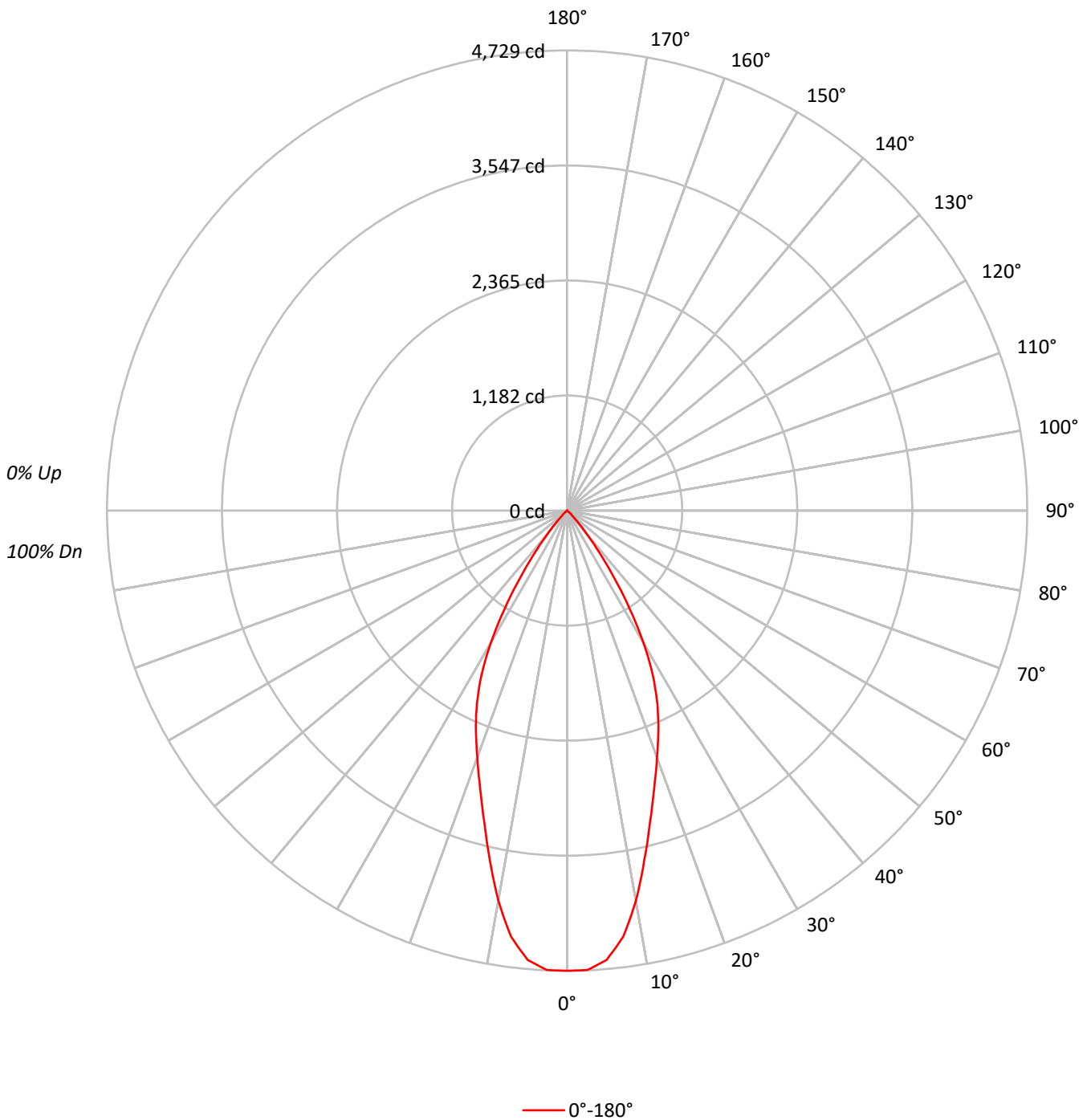
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	187	187	187	187	183	183	183	183	174	174	174	167	167	167	160	160	160	157	157	157
1	179	175	171	168	175	171	168	165	165	163	160	159	157	155	154	152	151	148	148	148
2	171	164	158	153	167	161	156	151	156	152	148	151	148	145	147	144	142	139	139	139
3	163	154	147	141	160	152	145	140	148	142	138	144	139	135	140	137	133	131	131	131
4	156	145	137	131	153	143	136	130	140	133	128	137	131	127	134	129	125	123	123	123
5	149	137	128	122	146	135	127	121	132	125	120	130	124	119	127	122	118	116	116	116
6	142	129	120	114	140	128	120	114	125	118	113	123	117	112	121	116	111	109	109	109
7	136	122	113	107	134	121	113	107	119	112	106	117	111	106	116	110	105	103	103	103
8	130	116	107	101	128	115	107	101	113	106	100	112	105	100	110	104	100	98	98	98
9	124	110	101	96	122	109	101	95	108	100	95	106	100	95	105	99	94	93	93	93
10	119	105	96	91	117	104	96	90	103	95	90	102	95	90	100	94	90	88	88	88

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

	0°
0°	145837
5°	143534
10°	127509
15°	105212
20°	88588
25°	74724
30°	55967
35°	31655
40°	12499
45°	3345
50°	672
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°	424.3	14.3	22.5	0°	4729	
10°-20°	924.8	31.2	49.0	5°	4637	424
20°-30°	990.7	33.4	52.5	15°	3296	925
30°-40°	536.9	18.1	28.5	25°	2196	991
40°-50°	83.4	2.8	4.4	35°	841	537
50°-60°	2.3	0.1	0.1	45°	77	83
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°	2339.8	79.0	124.0	165°	0	0
0°-40°	2876.7	97.1	152.4	175°	0	0
0°-60°	2962.4	100.0	157.0	180°	0	0
0°-90°	2962.9	100.0	157.0			
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°	2962.9	100.0	157.0			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4729.4
2.5°	4726.3
5°	4637.0
7.5°	4415.8
10°	4072.2
12.5°	3672.2
15°	3295.7
17.5°	2977.3
20°	2699.6
22.5°	2450.2
25°	2196.2
27.5°	1909.1
30°	1571.8
32.5°	1198.5
35°	840.9
37.5°	538.2
40°	310.5
42.5°	166.2
45°	76.7
47.5°	40.7
50°	14.0
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)