

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: P251358

Luminaire Tested: **LD8B60D010 ER8B60850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251358  
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 ER8B60850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 3633.0 lumens  
Efficiency: 192.5%  
Efficacy: 61.1 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

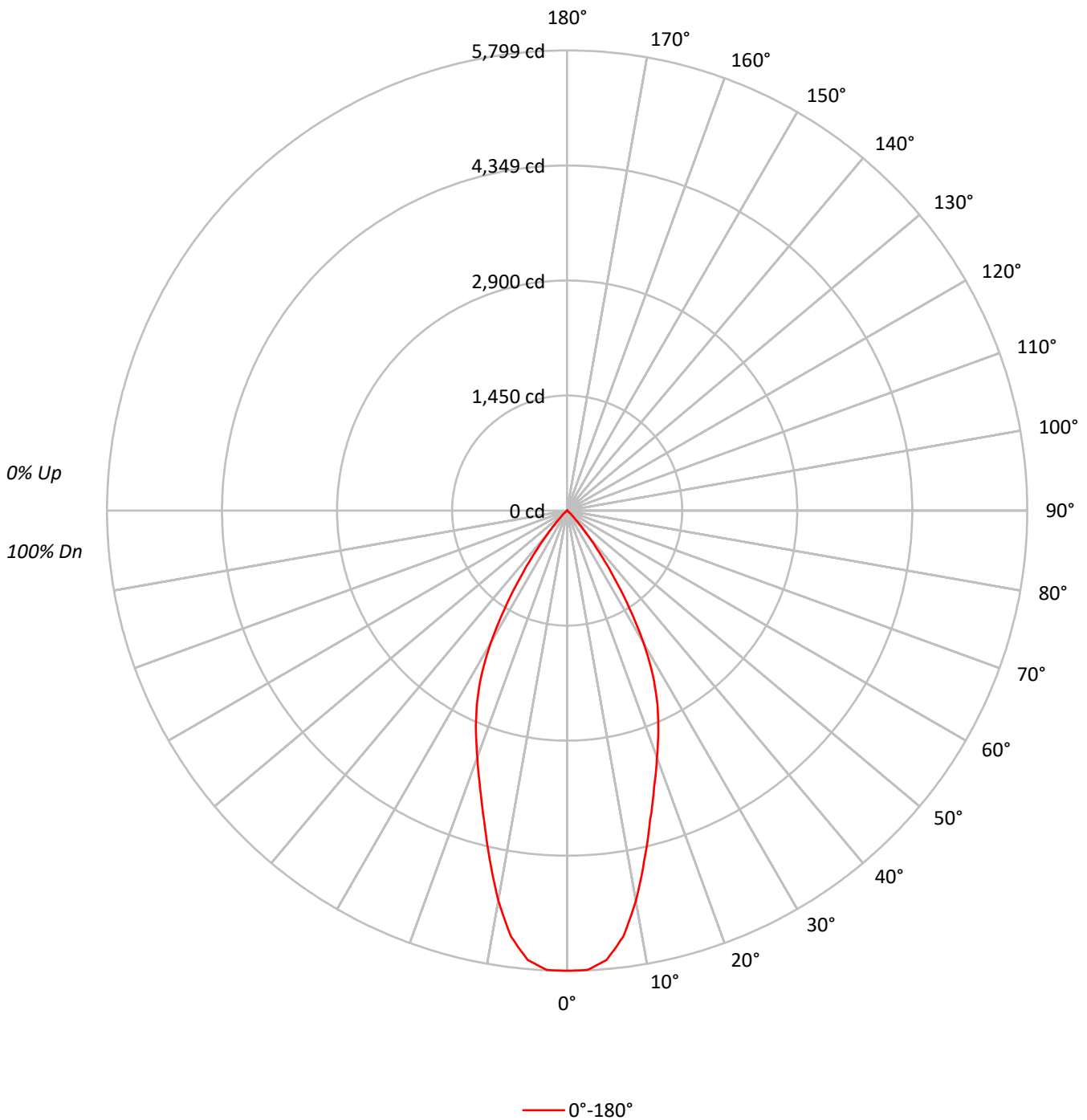
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251358

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P251358

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBN0B

**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	229	229	229	229	224	224	224	224	214	214	214	205	205	205	196	196	196	193			
1	219	214	210	206	215	210	206	203	202	199	196	195	193	191	189	187	185	182			
2	210	201	194	188	205	198	191	185	191	186	181	186	181	178	181	177	174	171			
3	200	189	180	173	196	186	178	171	181	174	169	176	171	166	172	167	163	161			
4	191	177	168	160	188	175	166	159	171	164	157	168	161	156	164	158	154	151			
5	182	167	157	149	179	166	156	149	162	154	147	159	152	146	156	150	145	142			
6	174	158	148	140	171	157	147	139	154	145	138	151	143	138	149	142	137	134			
7	166	150	139	131	164	148	138	131	146	137	130	144	136	130	142	135	129	127			
8	159	142	131	124	157	141	131	124	139	130	123	137	129	123	135	128	122	120			
9	152	135	124	117	150	134	124	117	132	123	117	131	122	116	129	121	116	113			
10	146	128	118	111	144	127	118	111	126	117	111	125	116	110	123	116	110	108			

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

	0°
0°	178814
5°	175990
10°	156341
15°	129002
20°	108622
25°	91620
30°	68625
35°	38811
40°	15329
45°	4099
50°	825
55°	0
60°	117
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251358

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBN0B

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	520.2	14.3	27.6	0°	5799	
10°-20°	1133.9	31.2	60.1	5°	5686	520
20°-30°	1214.7	33.4	64.4	15°	4041	1134
30°-40°	658.3	18.1	34.9	25°	2693	1215
40°-50°	102.2	2.8	5.4	35°	1031	658
50°-60°	2.9	0.1	0.2	45°	94	102
60°-70°	0.7	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°	2868.9	79.0	152.0	165°	0	0
0°-40°	3527.2	97.1	186.9	175°	0	0
0°-60°	3632.3	100.0	192.5	180°	0	0
0°-90°	3633.0	100.0	192.5			
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°	3633.0	100.0	192.5			



TEST NUMBER: P251358

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5798.8
2.5°	5795.1
5°	5685.5
7.5°	5414.3
10°	4993.0
12.5°	4502.5
15°	4040.9
17.5°	3650.5
20°	3310.1
22.5°	3004.3
25°	2692.8
27.5°	2340.8
30°	1927.3
32.5°	1469.5
35°	1031.0
37.5°	659.9
40°	380.8
42.5°	203.8
45°	94.0
47.5°	50.0
50°	17.2
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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



TEST NUMBER: P251358

CATALOG NUMBER: LD8B60D010 ER8B60850 8LBN0B

**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)