

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: P251370

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251370  
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: LSR8B60D010 EC8B60927 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2809.2 lumens  
Efficiency: 148.9%  
Efficacy: 47.2 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

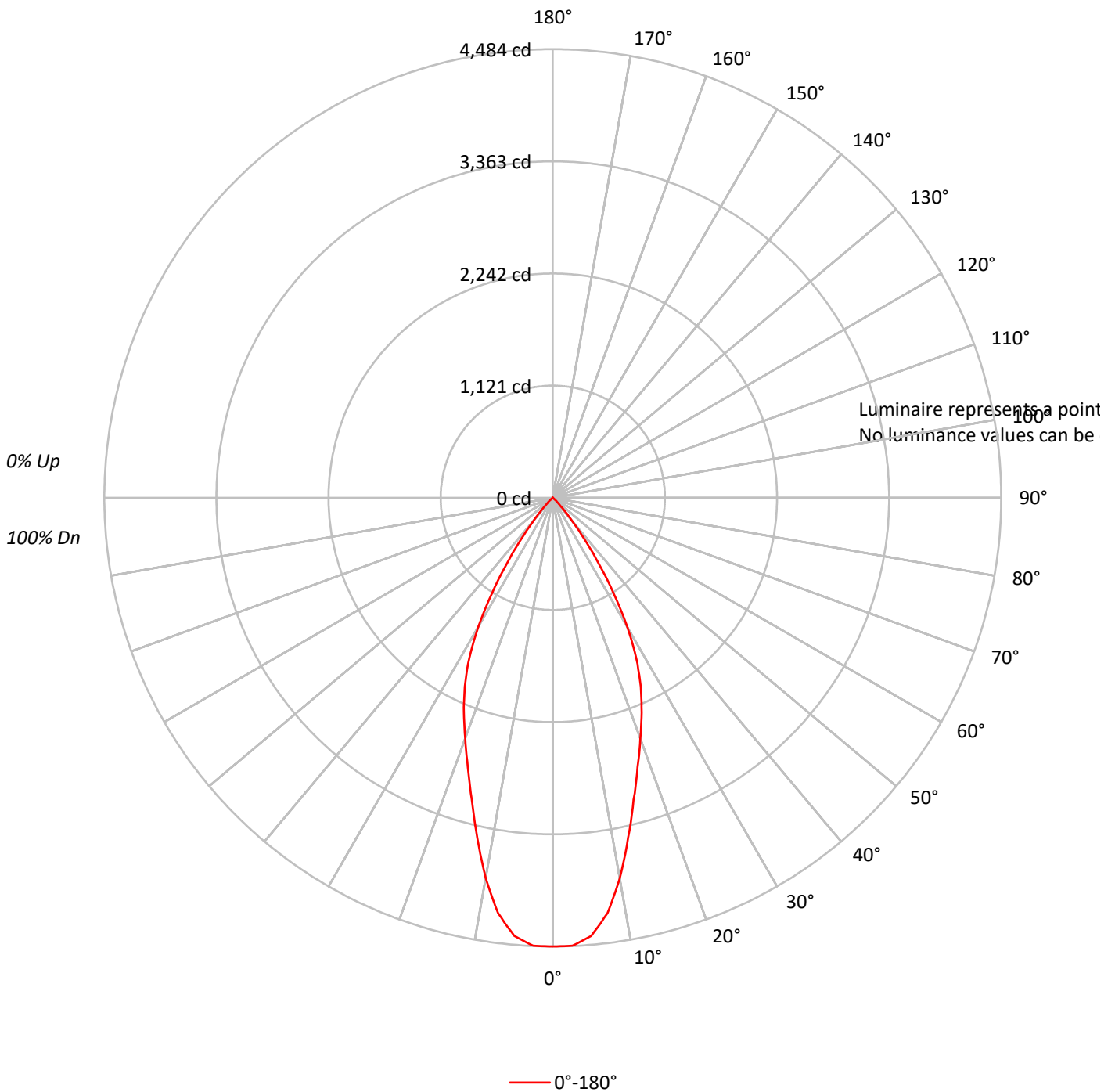
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251370

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBN0B

### Luminous Intensity Polar Plot





TEST NUMBER: P251370

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBN0B

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

RF	20				20				20				20				20							
RC	80				70				50				30				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	177	177	177	177	173	173	173	173	165	165	165	158	158	158	152	152	152	149						
1	170	166	162	159	166	163	159	157	157	154	152	151	149	147	146	145	143	141						
2	162	155	150	145	159	153	148	143	148	144	140	144	140	137	140	137	134	132						
3	155	146	139	134	152	144	138	132	140	135	130	136	132	128	133	130	126	124						
4	148	137	130	124	145	136	129	123	132	126	122	130	124	120	127	123	119	117						
5	141	129	121	115	139	128	121	115	125	119	114	123	117	113	121	116	112	110						
6	135	122	114	108	132	121	113	108	119	112	107	117	111	106	115	110	106	104						
7	129	116	107	102	127	115	107	101	113	106	101	111	105	100	110	104	100	98						
8	123	110	102	96	121	109	101	96	107	100	95	106	100	95	104	99	94	93						
9	118	104	96	91	116	104	96	90	102	95	90	101	94	90	100	94	90	88						
10	113	99	91	86	111	99	91	86	97	90	85	96	90	85	95	89	85	83						

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





TEST NUMBER: P251370

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBN0B

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	402.3	14.3	21.3	0°	4484	
10°-20°	876.8	31.2	46.5	5°	4396	402
20°-30°	939.3	33.4	49.8	15°	3125	877
30°-40°	509.0	18.1	27.0	25°	2082	939
40°-50°	79.0	2.8	4.2	35°	797	509
50°-60°	2.3	0.1	0.1	45°	73	79
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°	2218.3	79.0	117.6	165°	0	0
0°-40°	2727.3	97.1	144.5	175°	0	0
0°-60°	2808.6	100.0	148.8	180°	0	0
0°-90°	2809.2	100.0	148.9			
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°	2809.2	100.0	148.9			



TEST NUMBER: P251370

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBN0B

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4483.8
2.5°	4480.9
5°	4396.2
7.5°	4186.5
10°	3860.8
12.5°	3481.4
15°	3124.6
17.5°	2822.7
20°	2559.5
22.5°	2323.0
25°	2082.2
27.5°	1809.9
30°	1490.2
32.5°	1136.2
35°	797.2
37.5°	510.3
40°	294.4
42.5°	157.6
45°	72.7
47.5°	38.6
50°	13.3
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



TEST NUMBER: P251370

CATALOG NUMBER: LSR8B60D010 EC8B60927 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)