

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: P251240

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201794)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B60D010 EC8B60827 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4734.0 lumens  
Efficiency: 216.9%  
Efficacy: 79.6 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

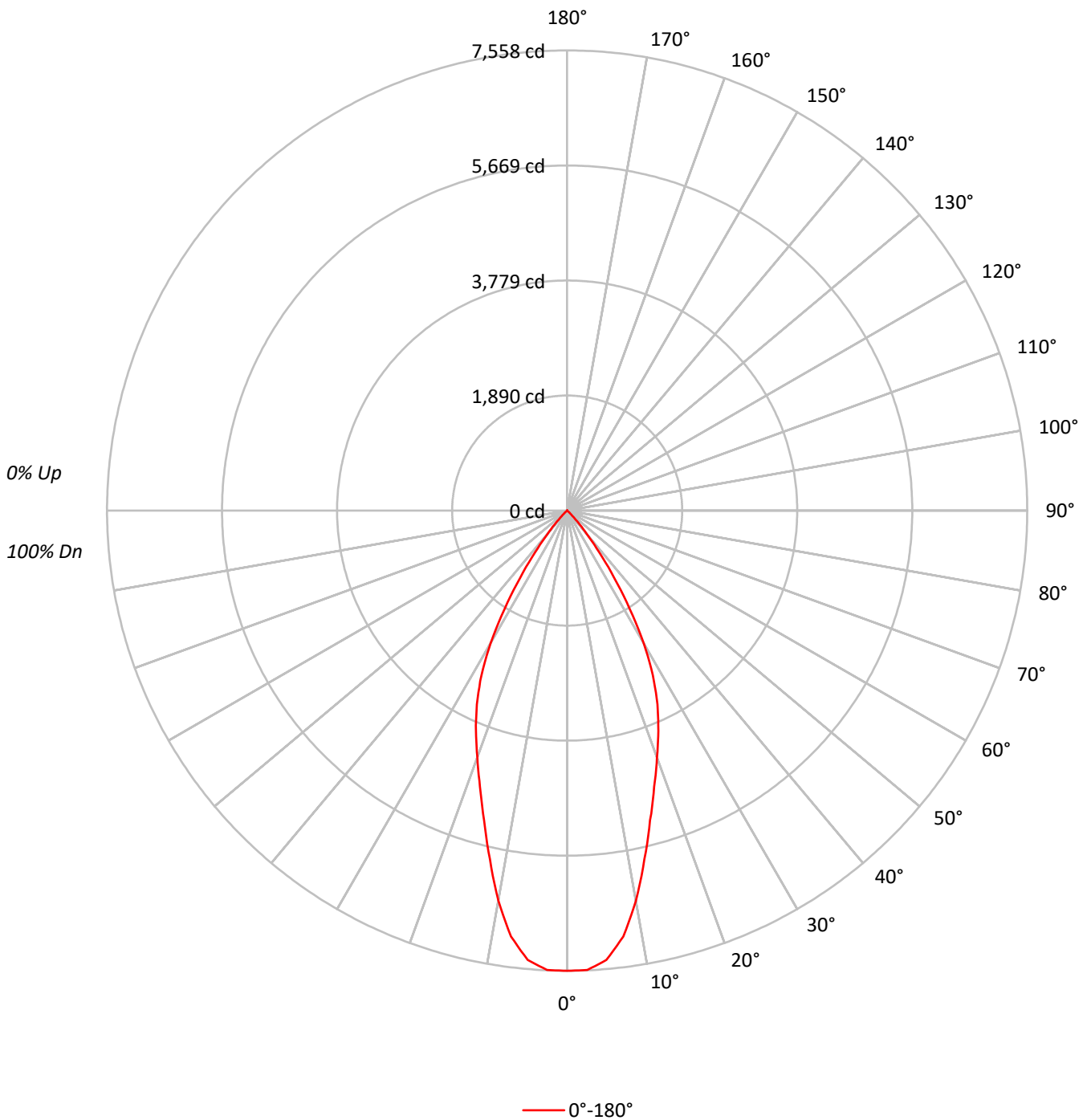
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251240

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBN0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P251240

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBN0GPH

**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	258	258	258	258	252	252	252	252	241	241	241	231	231	231	221	221	221	217	217	217
1	247	241	236	232	242	237	232	228	228	225	221	220	217	215	213	211	208	205	205	205
2	236	226	218	211	231	223	215	209	216	210	204	209	204	200	203	199	196	192	192	192
3	225	212	202	195	221	209	200	193	204	196	190	199	192	187	194	189	184	181	181	181
4	215	200	189	180	211	198	187	179	193	184	177	189	181	175	185	178	173	170	170	170
5	205	189	177	168	202	187	176	167	183	173	166	179	171	165	176	169	163	160	160	160
6	196	178	166	158	193	176	165	157	173	163	156	170	162	155	168	160	154	151	151	151
7	187	169	157	148	184	167	156	148	165	154	147	162	153	146	160	152	145	143	143	143
8	179	160	148	140	176	159	147	139	156	146	139	154	145	138	152	144	138	135	135	135
9	171	152	140	132	169	151	139	132	149	139	131	147	138	131	145	137	130	128	128	128
10	164	144	133	125	162	144	132	125	142	132	125	140	131	124	139	130	124	121	121	121

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

	0°
0°	233067
5°	229333
10°	203769
15°	168125
20°	141536
25°	119411
30°	89398
35°	50560
40°	19962
45°	5381
50°	1031
55°	0
60°	130
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251240

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBN0GPH

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	678.0	14.3	31.1	0°	7558	
10°-20°	1477.7	31.2	67.7	5°	7409	678
20°-30°	1582.9	33.4	72.5	15°	5266	1478
30°-40°	857.7	18.1	39.3	25°	3510	1583
40°-50°	133.5	2.8	6.1	35°	1343	858
50°-60°	3.5	0.1	0.2	45°	123	134
60°-70°	0.8	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°	3738.5	79.0	171.3	165°	0	0
0°-40°	4596.2	97.1	210.5	175°	0	0
0°-60°	4733.2	100.0	216.8	180°	0	0
0°-90°	4734.0	100.0	216.9			
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°	4734.0	100.0	216.9			



TEST NUMBER: P251240

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBN0GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7558.2
2.5°	7552.1
5°	7408.8
7.5°	7055.7
10°	6507.7
12.5°	5866.4
15°	5266.4
17.5°	4757.3
20°	4313.1
22.5°	3914.6
25°	3509.6
27.5°	3050.1
30°	2510.7
32.5°	1915.0
35°	1343.1
37.5°	860.2
40°	495.9
42.5°	264.3
45°	123.4
47.5°	67.4
50°	21.5
52.5°	2.1
55°	0.0
57.5°	2.1
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
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: P251240

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBN0GPH

**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)