

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: P251253

Luminaire Tested: **LSR8B70D010 EC8B709730 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251253  
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: LSR8B70D010 EC8B709730 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 5033.0 lumens  
Efficiency: 230.6%  
Efficacy: 66.3 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

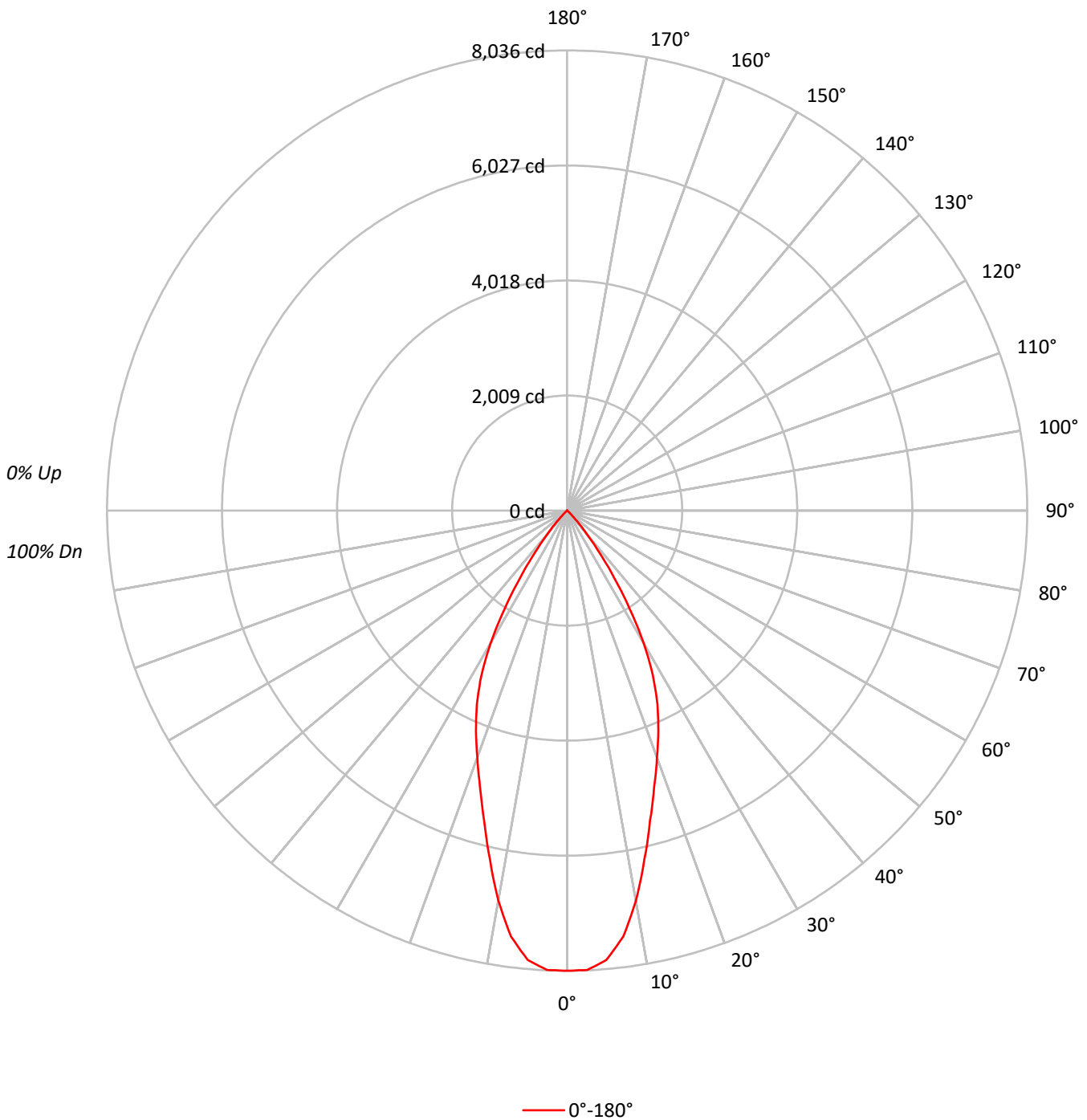
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P251253

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBN0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P251253

CATALOG NUMBER: LSR8B70D010 EC8B709730 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	274	274	274	274	268	268	268	268	256	256	256	245	245	245	235	235	235	231		
1	263	257	251	247	257	252	247	243	242	239	235	234	231	228	226	224	222	218		
2	251	241	232	225	246	237	229	222	229	223	217	222	217	213	216	212	208	205		
3	240	226	215	207	235	223	213	205	217	209	202	211	204	199	206	201	196	192		
4	229	213	201	192	225	210	199	191	205	196	188	201	193	186	196	190	184	181		
5	218	200	188	179	215	198	187	178	194	184	177	191	182	175	187	180	173	170		
6	208	189	177	168	205	188	176	167	184	174	166	181	172	165	178	170	164	161		
7	199	179	166	157	196	178	166	157	175	164	156	172	163	155	170	161	155	152		
8	190	170	157	148	188	169	157	148	166	155	148	164	154	147	162	153	146	143		
9	182	161	149	140	180	160	148	140	158	147	140	156	146	139	154	145	139	136		
10	174	154	141	133	172	153	141	133	151	140	132	149	139	132	148	138	132	129		

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

	0°
0°	247788
5°	243819
10°	216638
15°	178746
20°	150475
25°	126954
30°	95041
35°	53756
40°	21226
45°	5722
50°	1099
55°	0
60°	142
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251253

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBN0GPH

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	720.8	14.3	33.0	0°	8036	
10°-20°	1571.0	31.2	72.0	5°	7877	721
20°-30°	1682.8	33.4	77.1	15°	5599	1571
30°-40°	911.9	18.1	41.8	25°	3731	1683
40°-50°	141.9	2.8	6.5	35°	1428	912
50°-60°	3.7	0.1	0.2	45°	131	142
60°-70°	0.9	0.0	0.0	55°	0	4
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°	3974.6	79.0	182.1	165°	0	0
0°-40°	4886.5	97.1	223.8	175°	0	0
0°-60°	5032.2	100.0	230.5	180°	0	0
0°-90°	5033.0	100.0	230.6			
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°	5033.0	100.0	230.6			



TEST NUMBER: P251253

CATALOG NUMBER: LSR8B70D010 EC8B709730 8LBN0GPH

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8035.6
2.5°	8029.1
5°	7876.8
7.5°	7501.3
10°	6918.7
12.5°	6236.9
15°	5599.1
17.5°	5057.7
20°	4585.5
22.5°	4161.8
25°	3731.3
27.5°	3242.7
30°	2669.2
32.5°	2035.9
35°	1428.0
37.5°	914.5
40°	527.3
42.5°	281.0
45°	131.2
47.5°	71.6
50°	22.9
52.5°	2.3
55°	0.0
57.5°	2.3
60°	2.3
62.5°	0.0
65°	0.0
67.5°	2.3
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: P251253

CATALOG NUMBER: LSR8B70D010 EC8B709730 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)