

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: P251241

Luminaire Tested: **LSR8B70D010 EC8B70827 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251241
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 EC8B70827 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: 5714.0 lumens
Efficiency: 261.8%
Efficacy: 75.3 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

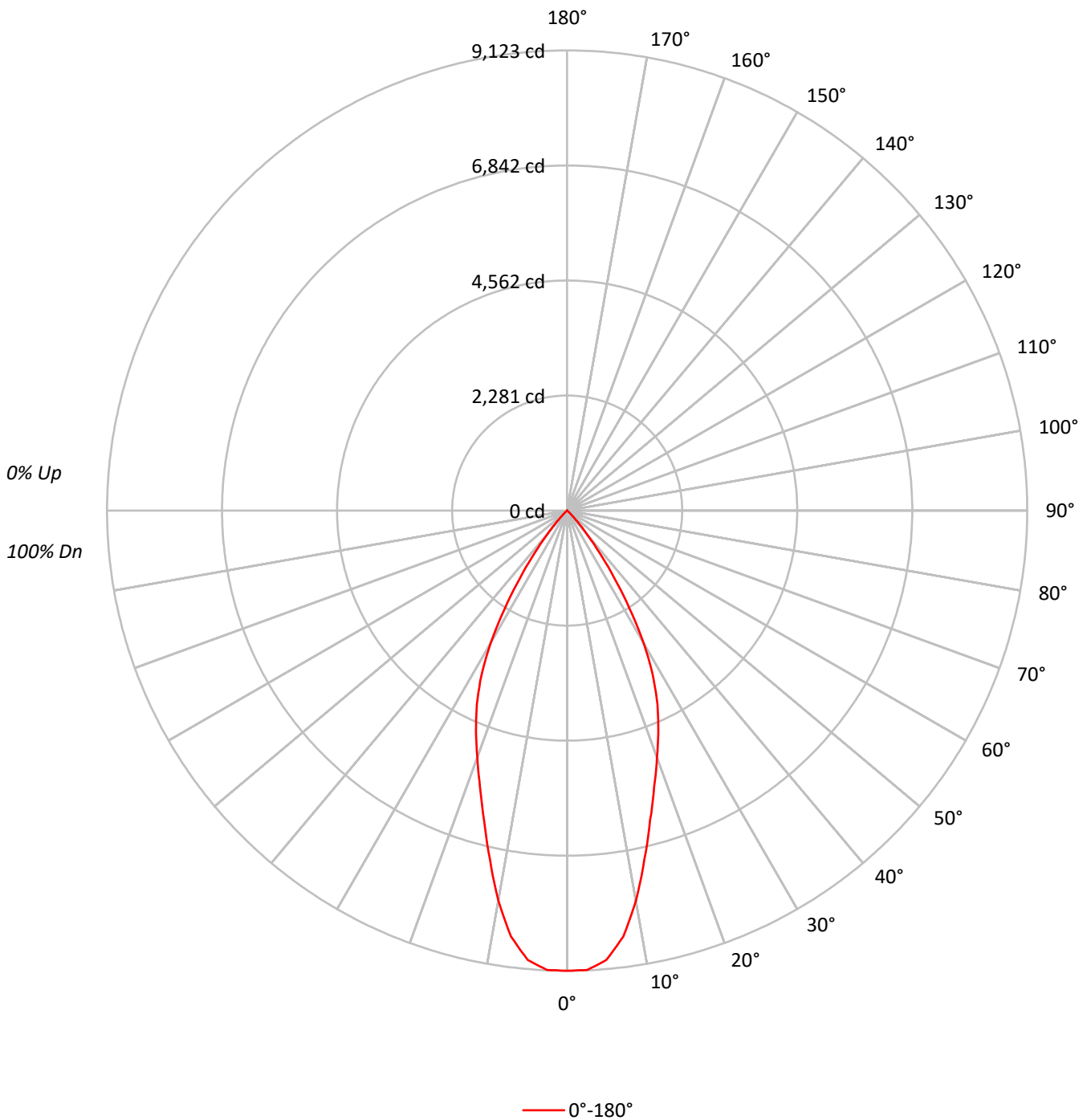
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251241

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBN0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P251241

CATALOG NUMBER: LSR8B70D010 EC8B70827 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			
RCR																				
0	312	312	312	312	304	304	304	304	291	291	291	278	278	278	267	267	267	262		
1	298	291	285	280	292	286	280	276	275	271	267	266	262	259	257	254	252	247		
2	285	273	263	255	279	269	260	252	260	253	247	253	247	241	245	241	236	232		
3	272	256	244	235	267	253	242	233	246	237	229	240	232	226	234	228	222	218		
4	260	241	228	218	255	238	226	216	233	222	214	228	219	211	223	215	209	205		
5	248	228	213	203	244	225	212	202	221	209	200	216	206	199	212	204	197	193		
6	237	215	201	190	233	213	199	190	209	197	188	206	195	187	202	193	186	182		
7	226	204	189	179	223	202	188	178	199	186	177	196	185	176	193	183	176	172		
8	216	193	178	169	213	192	178	168	189	176	167	186	175	167	184	174	166	163		
9	207	183	169	159	204	182	168	159	180	167	158	177	166	158	175	165	157	154		
10	198	174	160	151	195	173	160	151	171	159	150	169	158	150	167	157	150	146		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	281317
5°	276807
10°	245953
15°	202932
20°	170837
25°	144133
30°	107903
35°	61029
40°	24096
45°	6493
50°	1247
55°	0
60°	160
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251241

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBN0GPH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	818.3	14.3	37.5	0°	9123	
10°-20°	1783.6	31.2	81.7	5°	8942	818
20°-30°	1910.5	33.4	87.5	15°	6357	1784
30°-40°	1035.3	18.1	47.4	25°	4236	1911
40°-50°	161.1	2.8	7.4	35°	1621	1035
50°-60°	4.3	0.1	0.2	45°	149	161
60°-70°	1.0	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°	4512.4	79.0	206.7	165°	0	0
0°-40°	5547.7	97.1	254.1	175°	0	0
0°-60°	5713.1	100.0	261.7	180°	0	0
0°-90°	5714.0	100.0	261.8			
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°	5714.0	100.0	261.8			



TEST NUMBER: P251241

CATALOG NUMBER: LSR8B70D010 EC8B70827 8LBN0GPH

CANDELA DISTRIBUTION (FULL):

0°	
0°	9122.9
2.5°	9115.4
5°	8942.5
7.5°	8516.3
10°	7854.9
12.5°	7080.8
15°	6356.7
17.5°	5742.1
20°	5206.0
22.5°	4724.9
25°	4236.2
27.5°	3681.5
30°	3030.4
32.5°	2311.4
35°	1621.2
37.5°	1038.3
40°	598.6
42.5°	319.0
45°	148.9
47.5°	81.3
50°	26.0
52.5°	2.6
55°	0.0
57.5°	2.6
60°	2.6
62.5°	0.0
65°	0.0
67.5°	2.6
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: P251241

CATALOG NUMBER: LSR8B70D010 EC8B70827 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)