

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: **LD8B70D010 ER8B70930 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: LD8B70D010 ER8B70930 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 5642.1 lumens  
Efficiency: 258.5%  
Efficacy: 74.3 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

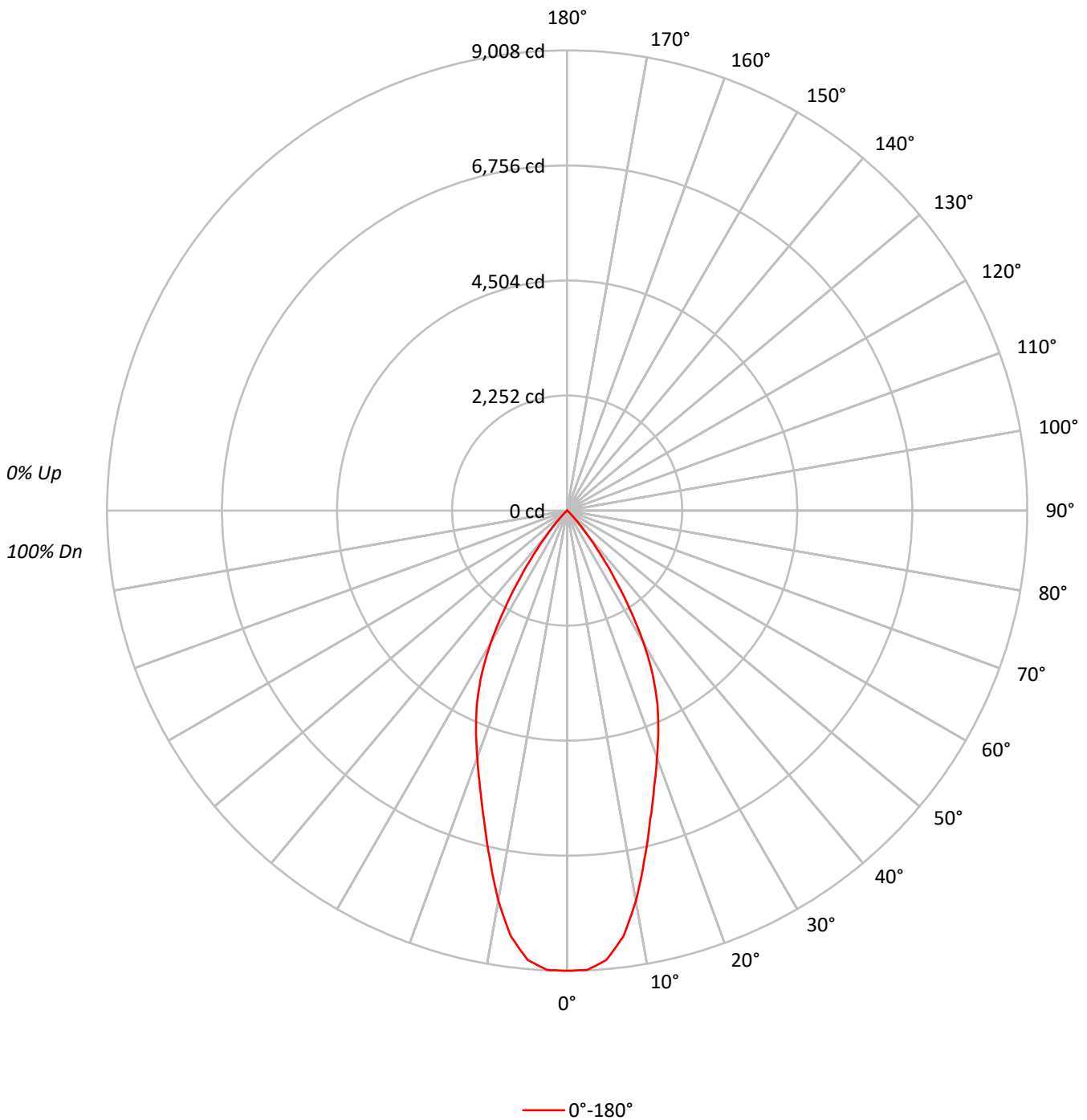
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	308	308	308	308	301	301	301	301	287	287	287	275	275	275	264	264	264	258			
1	294	288	282	276	288	282	277	272	272	268	264	262	259	256	253	251	248	244			
2	281	270	260	252	276	265	256	249	257	250	244	249	244	238	242	238	233	229			
3	269	253	241	232	264	250	239	230	243	234	226	237	229	223	231	225	219	216			
4	256	238	225	215	252	235	223	214	230	220	211	225	216	209	220	213	206	203			
5	245	225	211	201	241	222	209	200	218	207	198	214	204	196	210	201	194	191			
6	234	212	198	188	230	210	197	187	207	195	186	203	193	185	200	191	183	180			
7	223	201	187	177	220	199	186	176	196	184	175	193	182	174	190	181	173	170			
8	213	191	176	166	210	189	176	166	186	174	165	184	173	165	181	171	164	161			
9	204	181	167	157	201	180	166	157	177	165	156	175	164	156	173	163	155	152			
10	195	172	158	149	193	171	158	149	169	157	148	167	156	148	165	155	148	145			

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

	0°
0°	277770
5°	273322
10°	242853
15°	200375
20°	168681
25°	142316
30°	106542
35°	60261
40°	23794
45°	6415
50°	1233
55°	0
60°	160
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	808.0	14.3	37.0	0°	9008	
10°-20°	1761.1	31.2	80.7	5°	8830	808
20°-30°	1886.4	33.4	86.4	15°	6277	1761
30°-40°	1022.2	18.1	46.8	25°	4183	1886
40°-50°	159.1	2.8	7.3	35°	1601	1022
50°-60°	4.2	0.1	0.2	45°	147	159
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°	4455.5	79.0	204.1	165°	0	0
0°-40°	5477.8	97.1	250.9	175°	0	0
0°-60°	5641.1	100.0	258.4	180°	0	0
0°-90°	5642.1	100.0	258.5			
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°	5642.1	100.0	258.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9007.9
2.5°	9000.6
5°	8829.9
7.5°	8409.0
10°	7755.9
12.5°	6991.6
15°	6276.6
17.5°	5669.7
20°	5140.3
22.5°	4665.4
25°	4182.8
27.5°	3635.1
30°	2992.2
32.5°	2282.2
35°	1600.8
37.5°	1025.2
40°	591.1
42.5°	315.0
45°	147.1
47.5°	80.3
50°	25.7
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



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**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)