

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: P251259

Luminaire Tested: **LD8B70D010 ER8B70950 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251259  
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 ER8B70950 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 5617.0 lumens  
Efficiency: 257.3%  
Efficacy: 74.0 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

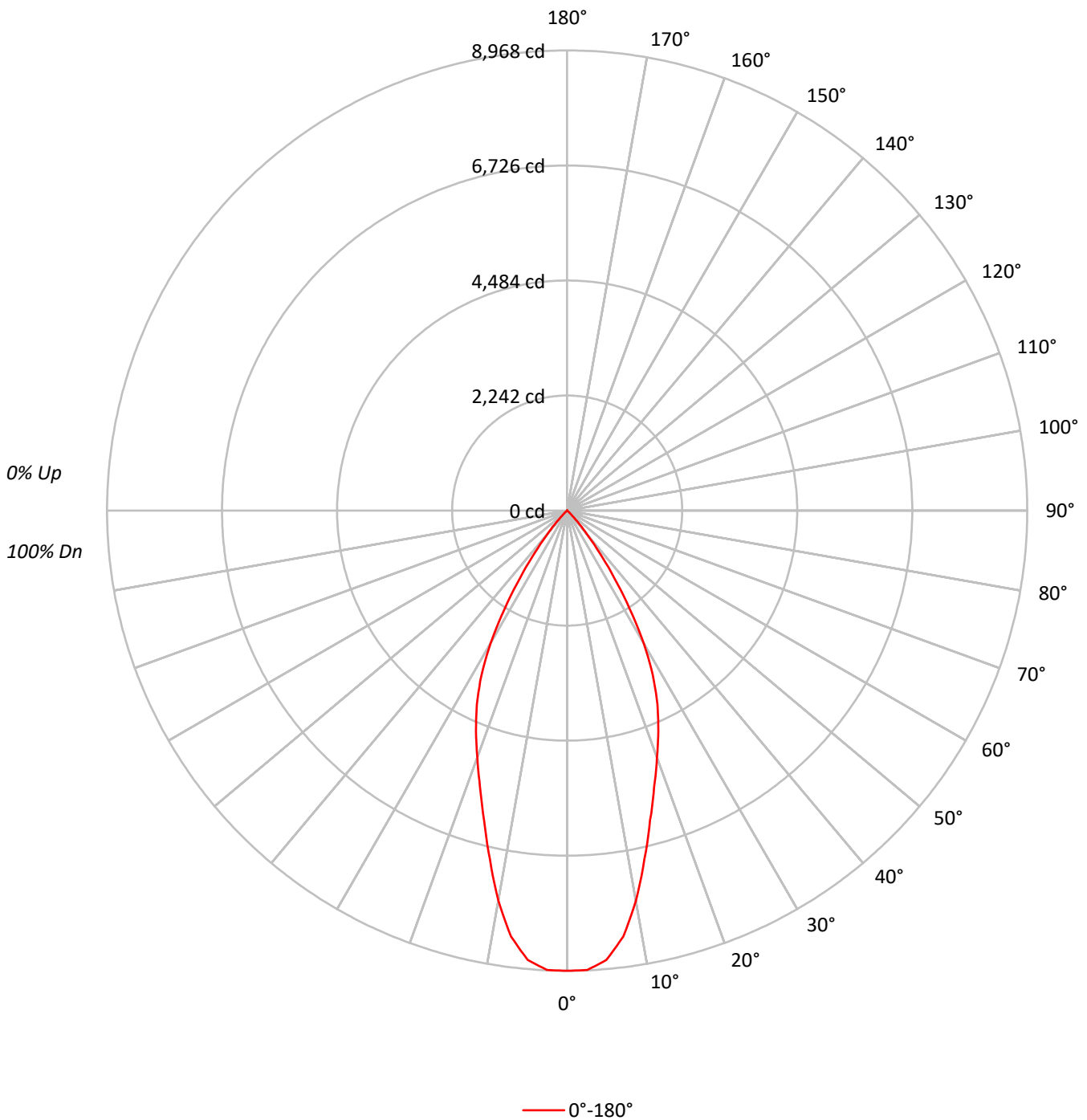
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	306	306	306	306	299	299	299	299	286	286	286	274	274	274	263	263	263	257
1	293	287	281	275	287	281	276	271	271	266	263	261	258	255	252	250	247	243
2	280	268	259	251	274	264	255	248	256	249	243	248	242	237	241	237	232	228
3	267	252	240	231	262	249	238	229	242	233	225	236	228	222	230	224	218	215
4	255	237	224	214	251	234	222	213	229	219	210	224	215	208	219	212	206	202
5	244	224	210	200	240	221	208	199	217	206	197	213	203	195	209	200	194	190
6	233	211	197	187	229	209	196	186	206	194	185	202	192	184	199	190	183	179
7	222	200	186	176	219	198	185	175	195	183	174	192	181	173	189	180	173	169
8	212	190	175	166	209	188	175	165	186	173	165	183	172	164	181	171	163	160
9	203	180	166	157	200	179	166	156	177	164	156	174	163	155	172	162	155	152
10	195	171	158	148	192	170	157	148	168	156	148	166	155	147	165	154	147	144

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

	0°
0°	276540
5°	272108
10°	241776
15°	199487
20°	167936
25°	141687
30°	106072
35°	59994
40°	23685
45°	6384
50°	1223
55°	0
60°	154
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°	804.4	14.3	36.8	0°	8968	
10°-20°	1753.3	31.2	80.3	5°	8791	804
20°-30°	1878.1	33.4	86.0	15°	6249	1753
30°-40°	1017.7	18.1	46.6	25°	4164	1878
40°-50°	158.4	2.8	7.3	35°	1594	1018
50°-60°	4.1	0.1	0.2	45°	146	158
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°	4435.8	79.0	203.2	165°	0	0
0°-40°	5453.5	97.1	249.8	175°	0	0
0°-60°	5616.0	100.0	257.3	180°	0	0
0°-90°	5617.0	100.0	257.3			
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°	5617.0	100.0	257.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8968.0
2.5°	8960.7
5°	8790.7
7.5°	8371.7
10°	7721.5
12.5°	6960.6
15°	6248.8
17.5°	5644.6
20°	5117.6
22.5°	4644.7
25°	4164.3
27.5°	3619.0
30°	2979.0
32.5°	2272.1
35°	1593.7
37.5°	1020.7
40°	588.4
42.5°	313.6
45°	146.4
47.5°	79.9
50°	25.5
52.5°	2.5
55°	0.0
57.5°	2.5
60°	2.5
62.5°	0.0
65°	0.0
67.5°	2.5
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



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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)