

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: P251249

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251249  
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 EC8B70850 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 6170.0 lumens  
Efficiency: 282.6%  
Efficacy: 81.3 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

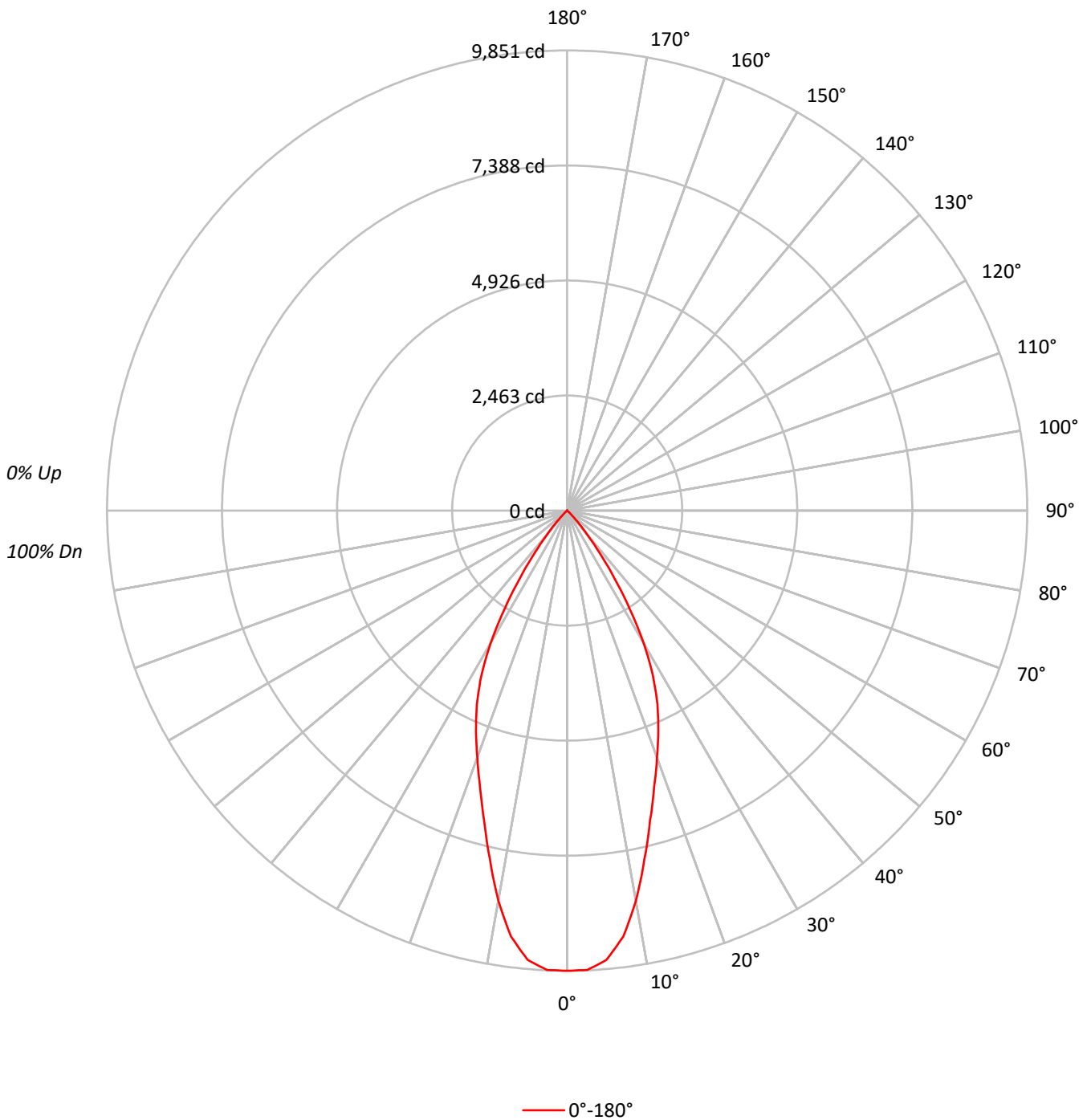
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	336	336	336	336	329	329	329	329	314	314	314	301	301	301	288	288	288	283			
1	322	315	308	302	315	309	303	297	297	293	288	287	283	280	277	274	272	267			
2	308	295	284	275	302	290	280	272	281	273	266	273	266	261	265	260	255	251			
3	294	277	264	254	288	273	261	252	266	256	248	259	251	244	253	246	240	236			
4	280	261	246	235	275	257	244	234	251	240	231	246	236	228	241	233	226	222			
5	267	246	230	219	263	243	229	218	238	226	216	234	223	215	229	220	213	209			
6	255	232	217	205	251	230	215	205	226	213	203	222	211	202	218	208	201	197			
7	244	220	204	193	240	218	203	193	214	201	192	211	199	191	208	198	190	186			
8	233	208	193	182	230	207	192	182	204	190	181	201	189	180	198	188	179	176			
9	223	198	182	172	220	197	182	172	194	181	171	192	179	171	189	178	170	167			
10	214	188	173	163	211	187	173	163	185	172	162	183	171	162	181	170	161	158			

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

	0°
0°	303765
5°	298899
10°	265579
15°	219127
20°	184468
25°	155633
30°	116512
35°	65900
40°	26020
45°	7012
50°	1343
55°	0
60°	173
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°	883.6	14.3	40.5	0°	9851	
10°-20°	1925.9	31.2	88.2	5°	9656	884
20°-30°	2063.0	33.4	94.5	15°	6864	1926
30°-40°	1117.9	18.1	51.2	25°	4574	2063
40°-50°	174.0	2.8	8.0	35°	1751	1118
50°-60°	4.6	0.1	0.2	45°	161	174
60°-70°	1.0	0.0	0.0	55°	0	5
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°	4872.5	79.0	223.2	165°	0	0
0°-40°	5990.4	97.1	274.4	175°	0	0
0°-60°	6168.9	100.0	282.6	180°	0	0
0°-90°	6170.0	100.0	282.6			
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°	6170.0	100.0	282.6			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9850.9
2.5°	9842.9
5°	9656.2
7.5°	9195.9
10°	8481.7
12.5°	7645.9
15°	6864.0
17.5°	6200.3
20°	5621.4
22.5°	5102.0
25°	4574.2
27.5°	3975.3
30°	3272.2
32.5°	2495.8
35°	1750.6
37.5°	1121.1
40°	646.4
42.5°	344.4
45°	160.8
47.5°	87.8
50°	28.0
52.5°	2.8
55°	0.0
57.5°	2.8
60°	2.8
62.5°	0.0
65°	0.0
67.5°	2.8
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)