

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: P251359

Luminaire Tested: **LSR8B70D010 EC8B70850 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B70D010 EC8B70850 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 4386.0 lumens  
Efficiency: 232.4%  
Efficacy: 57.8 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

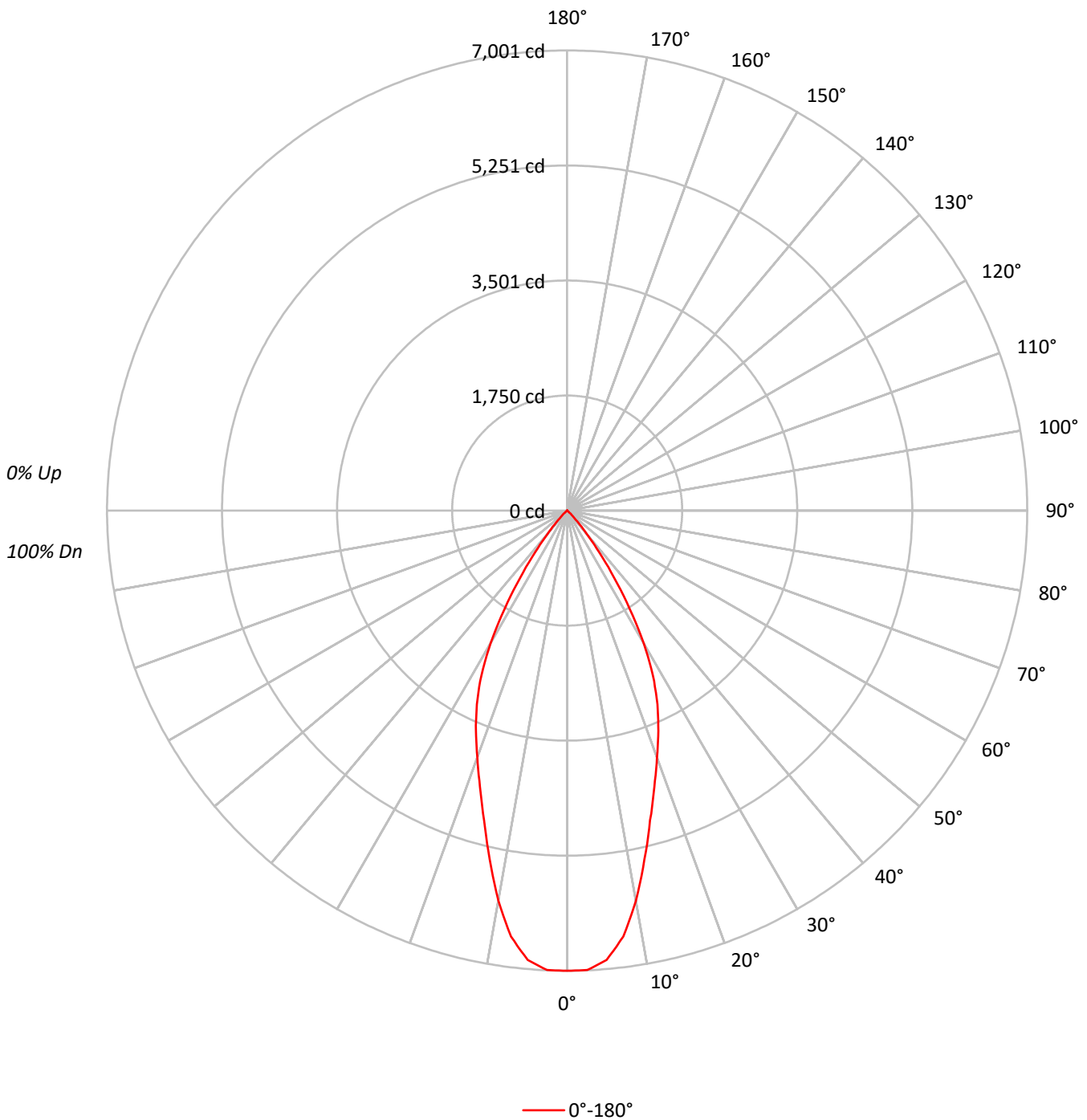
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	277	277	277	277	270	270	270	270	258	258	258	247	247	247	237	237	237	232			
1	265	259	253	249	259	254	249	245	244	241	237	236	233	230	228	226	223	219			
2	253	242	234	226	248	239	231	224	231	225	219	224	219	214	218	214	210	206			
3	241	228	217	209	237	225	215	207	219	210	204	213	206	200	208	202	197	194			
4	230	214	202	193	226	212	201	192	207	197	190	202	194	188	198	191	186	182			
5	220	202	190	180	216	200	188	180	196	186	178	192	183	176	189	181	175	172			
6	210	191	178	169	207	189	177	168	186	175	167	183	173	166	180	171	165	162			
7	201	181	168	159	198	179	167	158	176	165	157	174	164	157	171	162	156	153			
8	192	171	158	150	189	170	158	149	168	157	149	165	155	148	163	154	147	145			
9	184	163	150	141	181	162	150	141	160	148	141	158	147	140	156	147	140	137			
10	176	155	142	134	174	154	142	134	152	141	133	150	140	133	149	139	133	130			

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

	0°
0°	215876
5°	212466
10°	188746
15°	155742
20°	131133
25°	110609
30°	82846
35°	46856
40°	18505
45°	4950
50°	998
55°	0
60°	142
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°	628.0	14.3	33.3	0°	7001	
10°-20°	1369.0	31.2	72.5	5°	6864	628
20°-30°	1466.5	33.4	77.7	15°	4878	1369
30°-40°	794.7	18.1	42.1	25°	3251	1466
40°-50°	123.4	2.8	6.5	35°	1245	795
50°-60°	3.5	0.1	0.2	45°	114	123
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°	3463.5	79.0	183.5	165°	0	0
0°-40°	4258.2	97.1	225.7	175°	0	0
0°-60°	4385.2	100.0	232.4	180°	0	0
0°-90°	4386.0	100.0	232.4			
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°	4386.0	100.0	232.4			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7000.7
2.5°	6996.2
5°	6863.9
7.5°	6536.5
10°	6027.9
12.5°	5435.7
15°	4878.5
17.5°	4407.2
20°	3996.1
22.5°	3626.9
25°	3250.9
27.5°	2825.9
30°	2326.7
32.5°	1774.1
35°	1244.7
37.5°	796.7
40°	459.7
42.5°	246.1
45°	113.5
47.5°	60.3
50°	20.8
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



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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)