

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: P251365

Luminaire Tested: **LSR8B70D010 EC8B70935 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251365  
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 EC8B70935 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 3692.0 lumens  
Efficiency: 195.7%  
Efficacy: 48.6 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

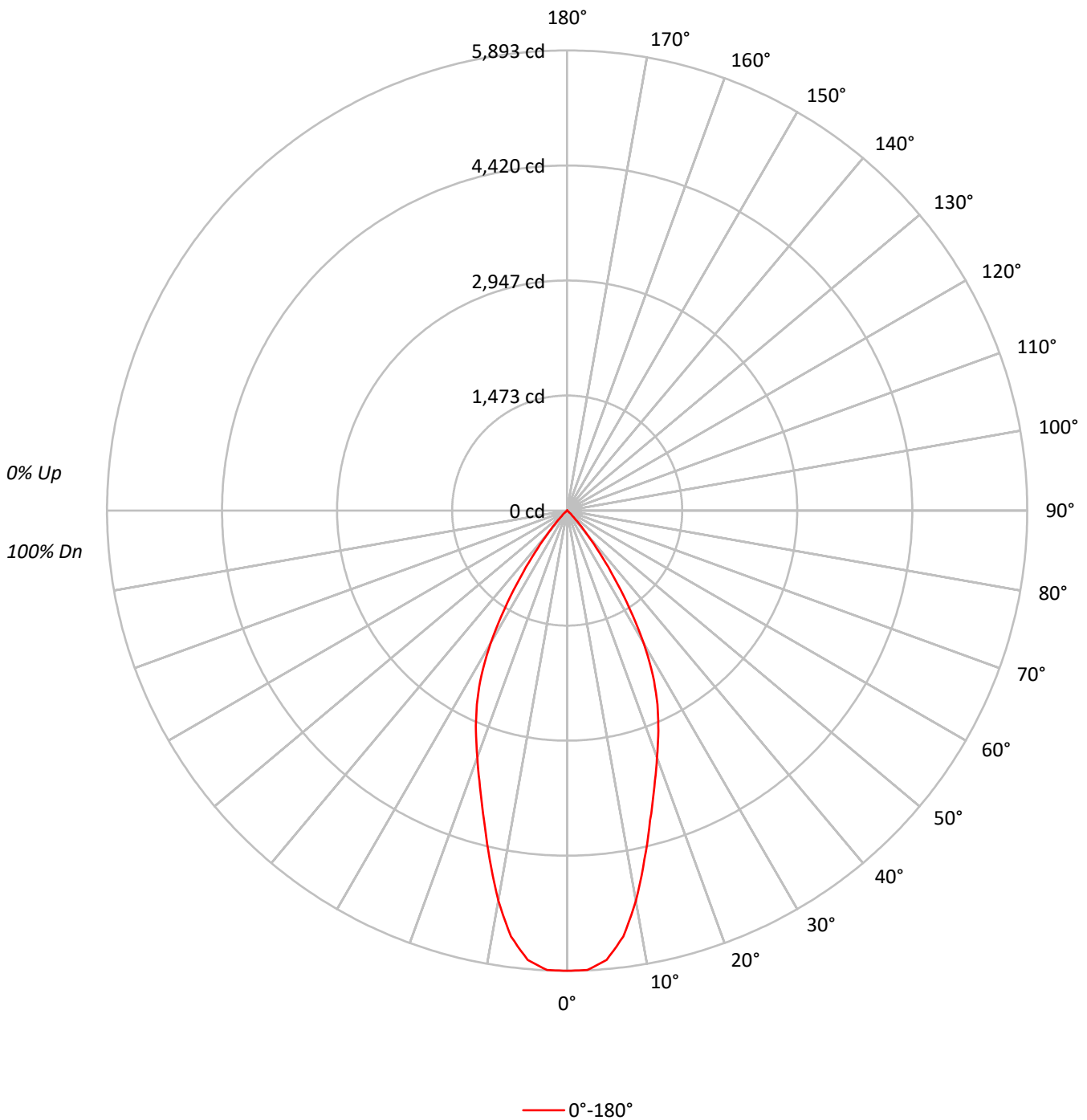
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	233	233	233	233	228	228	228	228	217	217	217	208	208	208	200	200	200	196	196	196
1	223	218	213	209	218	214	210	206	206	203	200	199	196	194	192	190	188	185	185	185
2	213	204	197	191	209	201	194	189	195	189	184	189	184	180	183	180	177	174	174	174
3	203	192	183	176	199	189	181	174	184	177	171	179	174	169	175	170	166	163	163	163
4	194	180	170	163	191	178	169	162	174	166	160	170	164	158	167	161	156	153	153	153
5	185	170	160	152	182	168	158	151	165	156	150	162	154	148	159	152	147	145	145	145
6	177	161	150	142	174	159	149	142	156	147	141	154	146	140	151	144	139	136	136	136
7	169	152	141	134	166	151	141	133	148	139	133	146	138	132	144	137	131	129	129	129
8	161	144	133	126	159	143	133	126	141	132	125	139	131	125	137	130	124	122	122	122
9	155	137	126	119	152	136	126	119	134	125	118	133	124	118	131	123	118	115	115	115
10	148	130	120	113	146	130	119	113	128	119	112	127	118	112	125	117	112	109	109	109

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

	0°
0°	181718
5°	178847
10°	158880
15°	131100
20°	110384
25°	93107
30°	69739
35°	39444
40°	15574
45°	4169
50°	840
55°	0
60°	117
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°	528.7	14.3	28.0	0°	5893	
10°-20°	1152.3	31.2	61.1	5°	5778	529
20°-30°	1234.4	33.4	65.4	15°	4107	1152
30°-40°	669.0	18.1	35.5	25°	2736	1234
40°-50°	103.9	2.8	5.5	35°	1048	669
50°-60°	2.9	0.1	0.2	45°	96	104
60°-70°	0.7	0.0	0.0	55°	0	3
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°	2915.5	79.0	154.5	165°	0	0
0°-40°	3584.4	97.1	190.0	175°	0	0
0°-60°	3691.3	100.0	195.6	180°	0	0
0°-90°	3692.0	100.0	195.7			
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°	3692.0	100.0	195.7			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5893.0
2.5°	5889.2
5°	5777.8
7.5°	5502.2
10°	5074.1
12.5°	4575.6
15°	4106.6
17.5°	3709.8
20°	3363.8
22.5°	3053.0
25°	2736.5
27.5°	2378.8
30°	1958.6
32.5°	1493.4
35°	1047.8
37.5°	670.6
40°	386.9
42.5°	207.1
45°	95.6
47.5°	50.8
50°	17.5
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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)