

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: P251363

Luminaire Tested: **LD8B70D010 ER8B70930 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251363  
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: LD8B70D010 ER8B70930 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 4009.8 lumens  
Efficiency: 212.5%  
Efficacy: 52.8 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

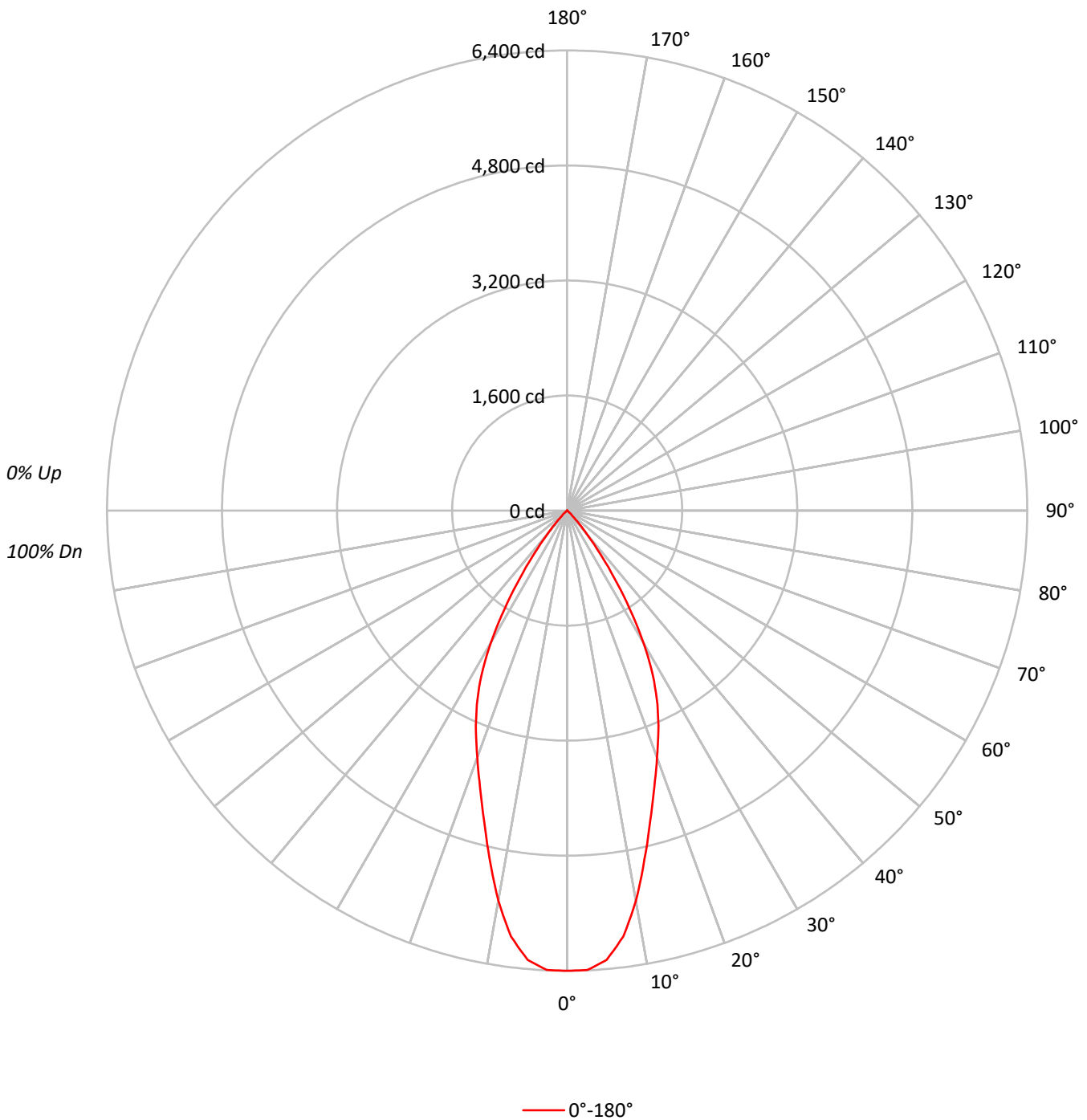
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	253	253	253	253	247	247	247	247	236	236	236	226	226	226	217	217	217	212			
1	242	237	232	227	237	232	228	224	223	220	217	216	213	210	208	206	204	201			
2	231	222	214	207	227	218	211	205	211	205	200	205	200	196	199	195	192	189			
3	221	208	198	191	217	205	196	189	200	192	186	195	188	183	190	185	180	177			
4	211	196	185	177	207	194	183	176	189	180	174	185	178	172	181	175	170	167			
5	201	185	173	165	198	183	172	164	179	170	163	176	168	161	172	165	160	157			
6	192	175	163	154	189	173	162	154	170	160	153	167	158	152	164	157	151	148			
7	183	165	153	145	181	164	153	145	161	151	144	159	150	143	156	149	142	140			
8	175	157	145	137	173	155	144	137	153	143	136	151	142	135	149	141	135	132			
9	168	149	137	129	166	148	137	129	146	136	129	144	135	128	142	134	128	125			
10	161	142	130	123	159	141	130	122	139	129	122	137	128	122	136	127	121	119			

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

	0°
0°	197359
5°	194240
10°	172557
15°	142385
20°	119891
25°	101123
30°	75743
35°	42835
40°	16919
45°	4527
50°	907
55°	0
60°	130
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°	574.2	14.3	30.4	0°	6400	
10°-20°	1251.6	31.2	66.3	5°	6275	574
20°-30°	1340.7	33.4	71.1	15°	4460	1252
30°-40°	726.5	18.1	38.5	25°	2972	1341
40°-50°	112.9	2.8	6.0	35°	1138	727
50°-60°	3.2	0.1	0.2	45°	104	113
60°-70°	0.8	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°	3166.5	79.0	167.8	165°	0	0
0°-40°	3893.0	97.1	206.3	175°	0	0
0°-60°	4009.1	100.0	212.5	180°	0	0
0°-90°	4009.8	100.0	212.5			
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°	4009.8	100.0	212.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6400.2
2.5°	6396.1
5°	6275.1
7.5°	5975.8
10°	5510.9
12.5°	4969.5
15°	4460.1
17.5°	4029.2
20°	3653.5
22.5°	3315.9
25°	2972.1
27.5°	2583.6
30°	2127.2
32.5°	1621.9
35°	1137.9
37.5°	728.3
40°	420.3
42.5°	225.0
45°	103.8
47.5°	55.2
50°	18.9
52.5°	2.1
55°	0.0
57.5°	2.1
60°	2.1
62.5°	0.0
65°	0.0
67.5°	2.1
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)