

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: P251369

Luminaire Tested: **LD8B70D010 ER8B70950 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251369
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 ER8B70950 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 3993.0 lumens
Efficiency: 211.6%
Efficacy: 52.6 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

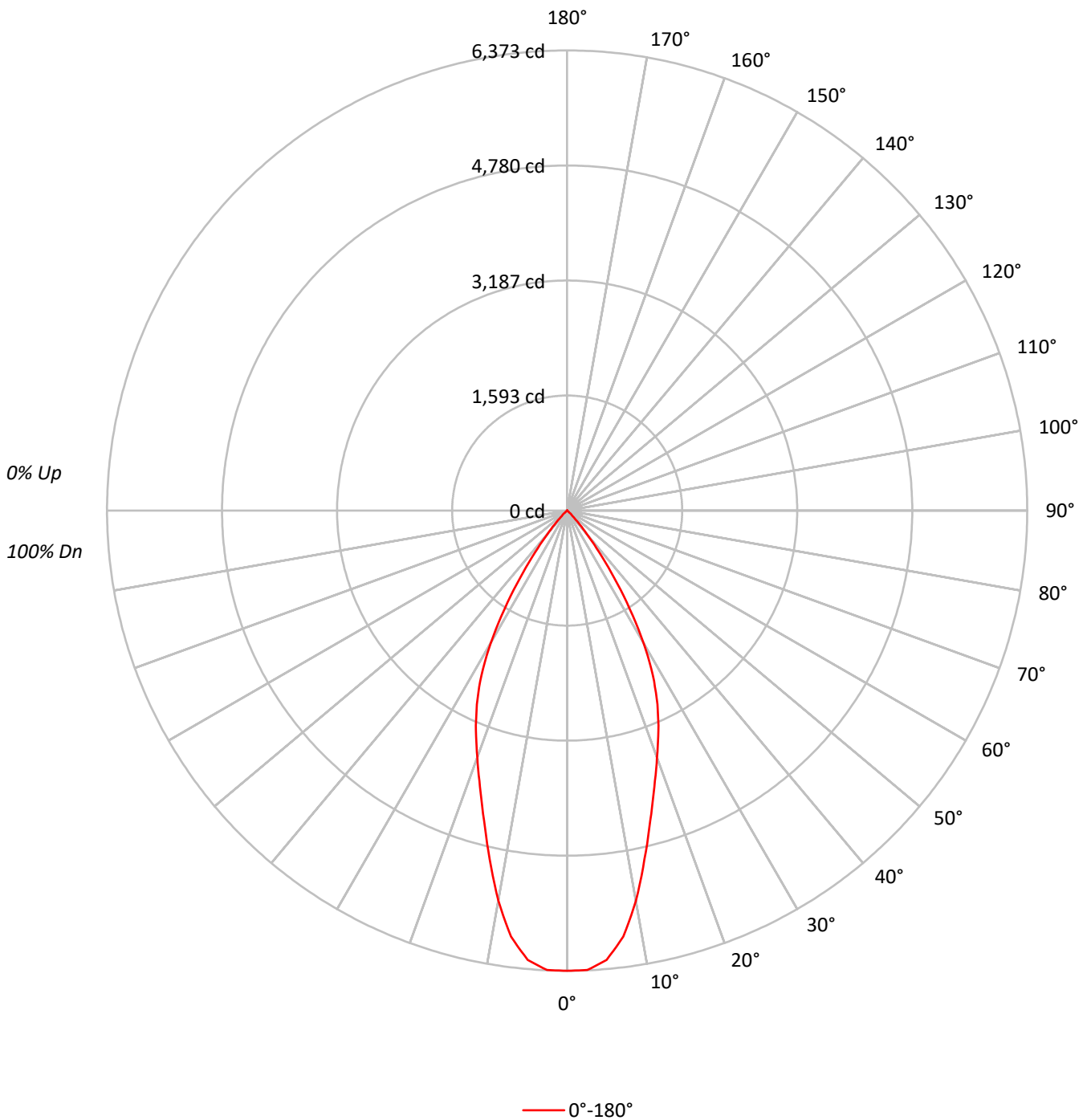
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P251369

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBN0B

Luminous Intensity Polar Plot





TEST NUMBER: P251369

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBN0B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
RC	80	70	50	30	10	0	0	0	0	0	0	0	0	0				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10				
RCR																		
0	252	252	252	252	246	246	246	246	235	235	235	225	225	225	216	216	216	212
1	241	236	231	226	236	231	227	223	223	219	216	215	212	209	208	205	203	200
2	230	221	213	206	226	217	210	204	210	205	199	204	199	195	198	195	191	188
3	220	207	198	190	216	204	195	188	199	191	185	194	188	182	189	184	180	177
4	210	195	184	176	206	193	183	175	188	180	173	184	177	171	180	174	169	166
5	200	184	173	164	197	182	171	163	178	169	162	175	167	161	172	165	159	156
6	191	174	162	154	188	172	161	153	169	159	152	166	158	151	164	156	150	147
7	183	165	153	145	180	163	152	144	161	151	143	158	149	143	156	148	142	139
8	175	156	144	136	172	155	144	136	153	143	135	151	141	135	149	140	134	132
9	167	148	137	129	165	147	136	129	145	135	128	143	134	128	142	133	127	125
10	160	141	130	122	158	140	129	122	138	128	122	137	128	121	135	127	121	118

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	196532
5°	193429
10°	171834
15°	141788
20°	119385
25°	100698
30°	75426
35°	42658
40°	16846
45°	4509
50°	907
55°	0
60°	130
65°	0
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P251369

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBN0B

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	571.8	14.3	30.3	0°	6373	
10°-20°	1246.3	31.2	66.0	5°	6249	572
20°-30°	1335.1	33.4	70.8	15°	4441	1246
30°-40°	723.5	18.1	38.3	25°	2960	1335
40°-50°	112.4	2.8	6.0	35°	1133	724
50°-60°	3.2	0.1	0.2	45°	103	112
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°	3153.2	79.0	167.1	165°	0	0
0°-40°	3876.7	97.1	205.4	175°	0	0
0°-60°	3992.3	100.0	211.6	180°	0	0
0°-90°	3993.0	100.0	211.6			
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°	3993.0	100.0	211.6			



TEST NUMBER: P251369

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBN0B

CANDELA DISTRIBUTION (FULL):

0°	
0°	6373.4
2.5°	6369.3
5°	6248.9
7.5°	5950.8
10°	5487.8
12.5°	4948.7
15°	4441.4
17.5°	4012.3
20°	3638.1
22.5°	3302.0
25°	2959.6
27.5°	2572.7
30°	2118.3
32.5°	1615.1
35°	1133.2
37.5°	725.3
40°	418.5
42.5°	224.0
45°	103.4
47.5°	54.9
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



TEST NUMBER: P251369

CATALOG NUMBER: LD8B70D010 ER8B70950 8LBN0B

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)