

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: P251252

Luminaire Tested: **LD8B60D010 ER8B60930 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251252  
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: LD8B60D010 ER8B60930 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4673.4 lumens  
Efficiency: 214.1%  
Efficacy: 78.5 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

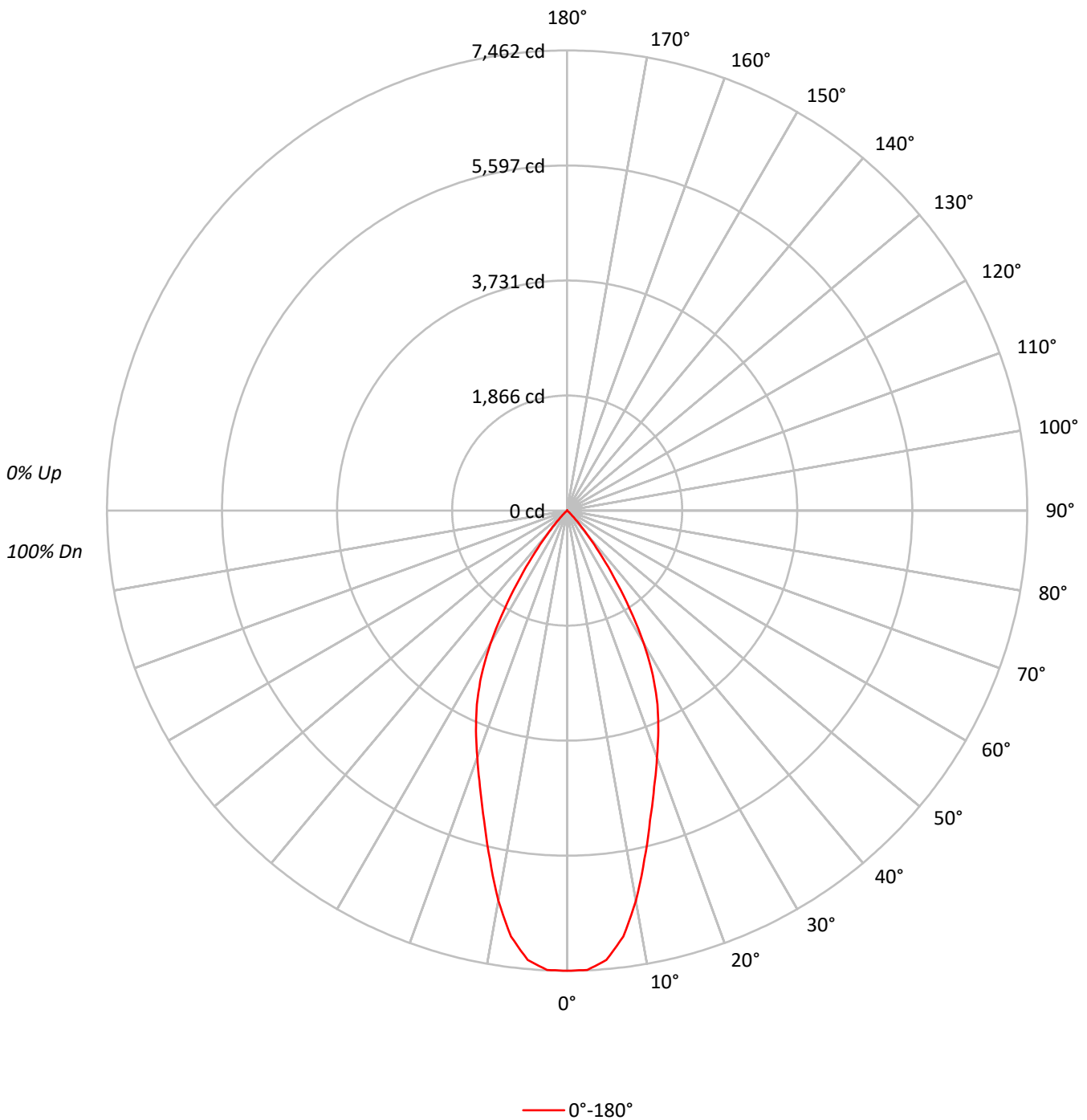
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	255	255	255	255	249	249	249	249	238	238	238	228	228	228	218	218	218	214	214	214
1	244	238	233	229	239	234	229	225	225	222	218	217	214	212	210	208	206	202	202	202
2	233	223	215	209	228	220	212	206	213	207	202	207	202	197	201	197	193	190	190	190
3	222	210	200	192	218	207	198	191	201	194	187	196	190	185	191	186	182	179	179	179
4	212	197	186	178	209	195	185	177	190	182	175	186	179	173	182	176	171	168	168	168
5	203	186	175	166	199	184	173	165	180	171	164	177	169	162	174	167	161	158	158	158
6	193	176	164	156	190	174	163	155	171	161	154	168	160	153	165	158	152	149	149	149
7	185	166	155	146	182	165	154	146	162	152	145	160	151	144	158	150	144	141	141	141
8	177	158	146	138	174	157	145	138	154	144	137	152	143	136	150	142	136	133	133	133
9	169	150	138	130	167	149	138	130	147	137	130	145	136	129	143	135	129	126	126	126
10	162	143	131	123	160	142	131	123	140	130	123	138	129	123	137	128	122	120	120	120

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

	0°
0°	230085
5°	226401
10°	201164
15°	165977
20°	139724
25°	117887
30°	88251
35°	49912
40°	19704
45°	5316
50°	1017
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°	669.3	14.3	30.7	0°	7462	
10°-20°	1458.8	31.2	66.8	5°	7314	669
20°-30°	1562.6	33.4	71.6	15°	5199	1459
30°-40°	846.7	18.1	38.8	25°	3465	1563
40°-50°	131.8	2.8	6.0	35°	1326	847
50°-60°	3.5	0.1	0.2	45°	122	132
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°	3690.7	79.0	169.1	165°	0	0
0°-40°	4537.4	97.1	207.9	175°	0	0
0°-60°	4672.6	100.0	214.0	180°	0	0
0°-90°	4673.4	100.0	214.1			
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°	4673.4	100.0	214.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7461.5
2.5°	7455.4
5°	7314.1
7.5°	6965.4
10°	6424.5
12.5°	5791.3
15°	5199.1
17.5°	4696.4
20°	4257.9
22.5°	3864.5
25°	3464.8
27.5°	3011.1
30°	2478.5
32.5°	1890.5
35°	1325.9
37.5°	849.2
40°	489.5
42.5°	260.9
45°	121.9
47.5°	66.5
50°	21.2
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)