

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: P251242

Luminaire Tested: **LSR8B60D010 EC8B60830 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251242  
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: LSR8B60D010 EC8B60830 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
80 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4852.0 lumens  
Efficiency: 222.3%  
Efficacy: 81.5 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

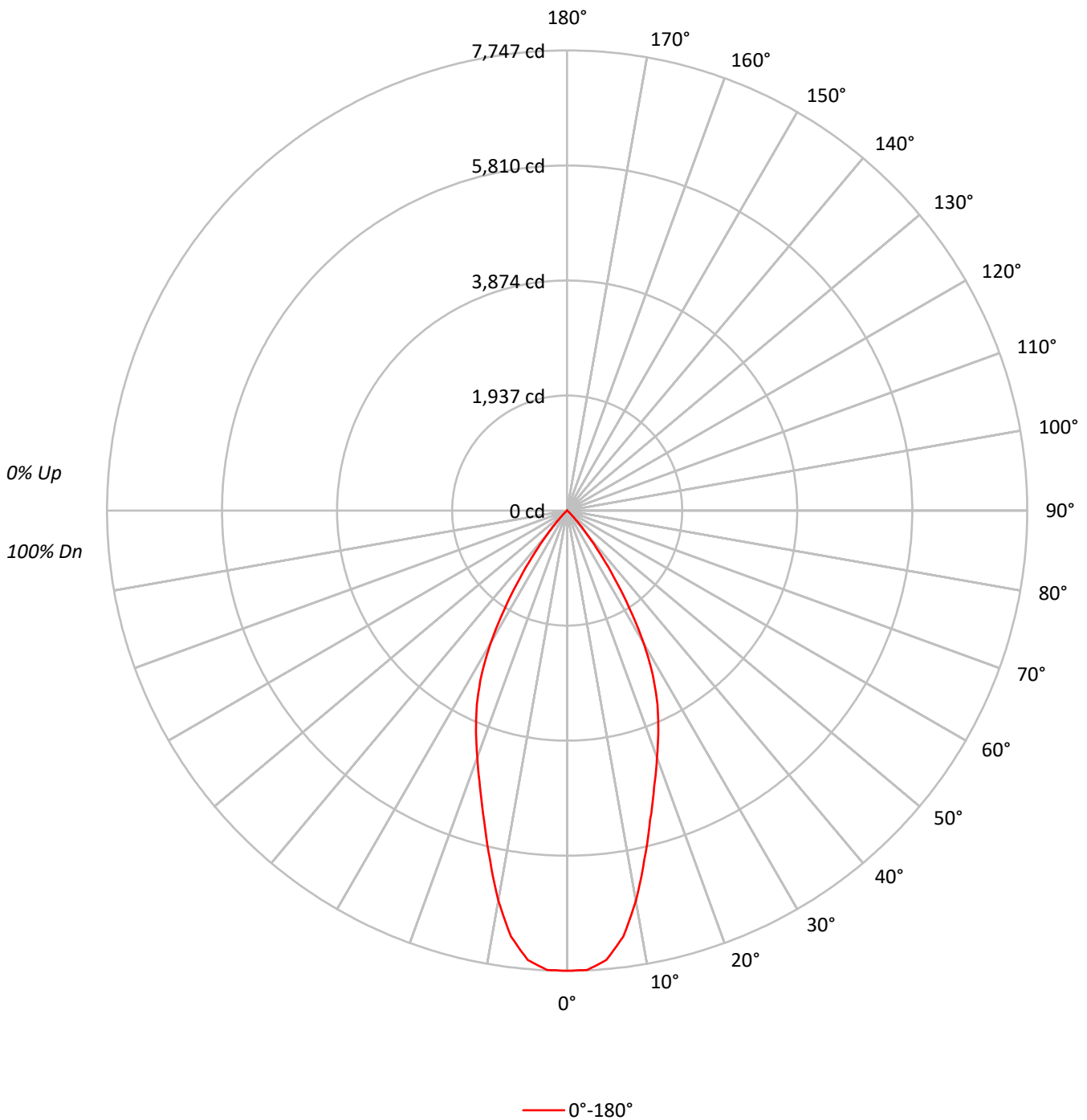
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	265	265	265	265	258	258	258	258	247	247	247	236	236	236	227	227	227	222	222	222
1	253	248	242	238	248	243	238	234	234	230	227	226	223	220	218	216	214	210	210	210
2	242	232	224	217	237	228	221	214	221	215	209	214	209	205	208	204	201	197	197	197
3	231	218	208	199	227	215	205	198	209	201	195	204	197	192	199	193	189	185	185	185
4	220	205	194	185	217	202	192	184	198	189	182	193	186	180	189	183	178	174	174	174
5	210	193	181	172	207	191	180	172	187	178	170	184	175	169	180	173	167	164	164	164
6	201	183	170	161	198	181	169	161	178	167	160	175	166	159	172	164	158	155	155	155
7	192	173	160	152	189	171	160	151	169	158	151	166	157	150	164	155	149	146	146	146
8	183	164	152	143	181	163	151	143	160	150	142	158	149	142	156	147	141	138	138	138
9	176	156	143	135	173	155	143	135	153	142	135	151	141	134	149	140	134	131	131	131
10	168	148	136	128	166	147	136	128	145	135	128	144	134	127	142	133	127	124	124	124

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

	0°
0°	238877
5°	235050
10°	208848
15°	172317
20°	145063
25°	122388
30°	91623
35°	51821
40°	20461
45°	5517
50°	1055
55°	0
60°	136
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°	694.8	14.3	31.8	0°	7747	
10°-20°	1514.5	31.2	69.4	5°	7594	695
20°-30°	1622.3	33.4	74.3	15°	5398	1515
30°-40°	879.1	18.1	40.3	25°	3597	1622
40°-50°	136.8	2.8	6.3	35°	1377	879
50°-60°	3.6	0.1	0.2	45°	126	137
60°-70°	0.8	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°	3831.7	79.0	175.5	165°	0	0
0°-40°	4710.8	97.1	215.8	175°	0	0
0°-60°	4851.2	100.0	222.2	180°	0	0
0°-90°	4852.0	100.0	222.3			
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°	4852.0	100.0	222.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7746.6
2.5°	7740.3
5°	7593.5
7.5°	7231.5
10°	6669.9
12.5°	6012.6
15°	5397.7
17.5°	4875.9
20°	4420.6
22.5°	4012.1
25°	3597.1
27.5°	3126.1
30°	2573.2
32.5°	1962.7
35°	1376.6
37.5°	881.7
40°	508.3
42.5°	270.9
45°	126.5
47.5°	69.0
50°	22.0
52.5°	2.2
55°	0.0
57.5°	2.2
60°	2.2
62.5°	0.0
65°	0.0
67.5°	2.2
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)