

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: P251368

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251368  
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: LSR8B60D010 EC8B60950 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 5000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 3308.0 lumens  
Efficiency: 175.3%  
Efficacy: 55.6 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

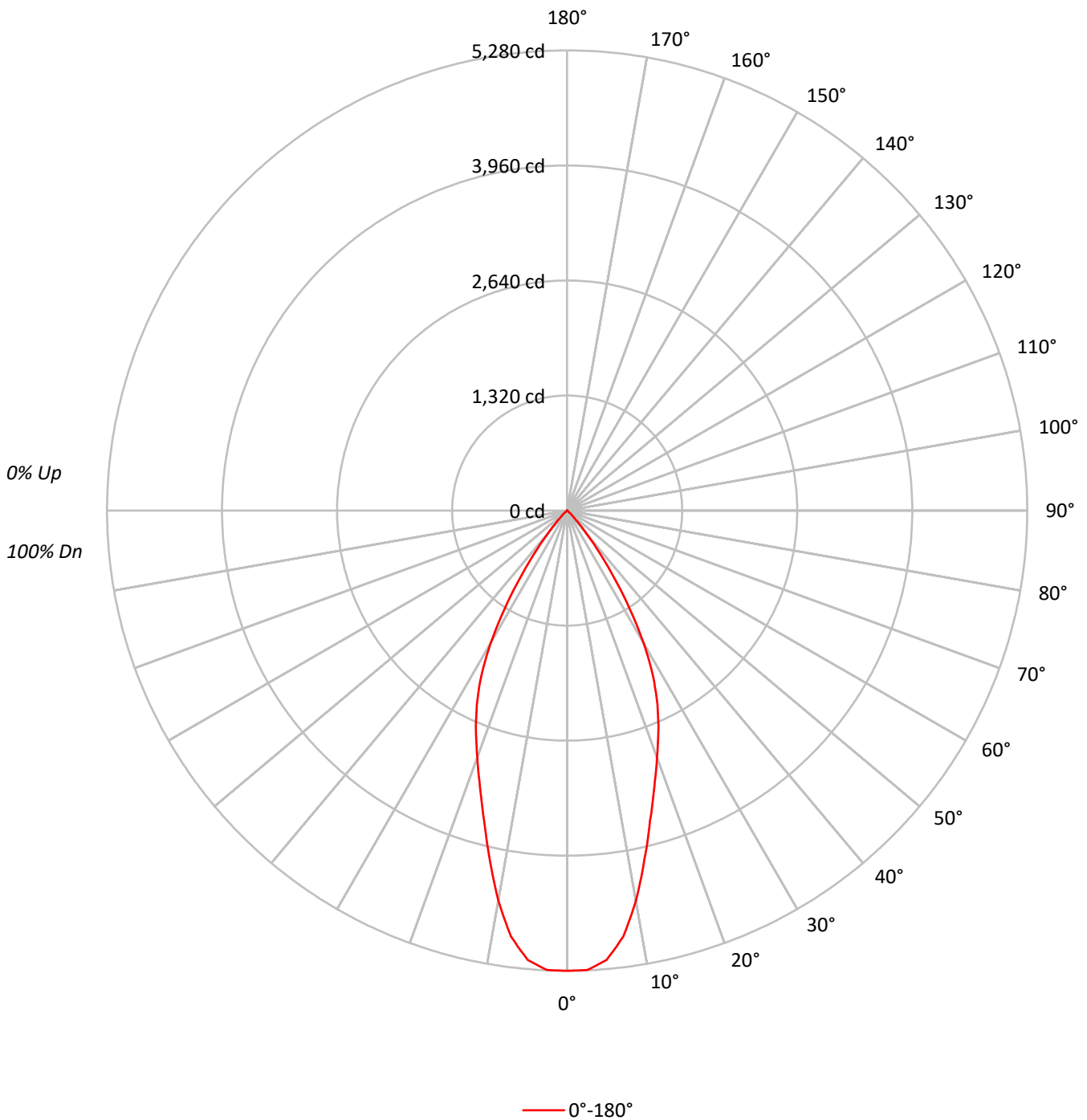
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	209	209	209	209	204	204	204	204	195	195	195	186	186	186	179	179	179	175												
1	200	195	191	187	195	191	188	185	184	181	179	178	176	174	172	170	169	165												
2	191	183	176	171	187	180	174	169	174	169	165	169	165	162	164	161	158	156												
3	182	172	164	157	179	169	162	156	165	159	154	161	155	151	157	152	149	146												
4	174	162	153	146	171	160	151	145	156	149	143	153	147	142	149	144	140	138												
5	166	152	143	136	163	151	142	135	148	140	134	145	138	133	142	137	132	129												
6	158	144	134	127	156	143	134	127	140	132	126	138	131	125	135	129	124	122												
7	151	136	127	120	149	135	126	119	133	125	119	131	124	118	129	123	118	115												
8	145	129	120	113	143	128	119	113	126	118	112	125	117	112	123	116	111	109												
9	138	123	113	107	137	122	113	106	120	112	106	119	111	106	117	111	105	103												
10	133	117	107	101	131	116	107	101	115	106	101	113	106	100	112	105	100	98												

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

	0°
0°	162819
5°	160246
10°	142357
15°	117462
20°	98905
25°	83424
30°	62486
35°	35340
40°	13956
45°	3733
50°	753
55°	0
60°	105
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°	473.7	14.3	25.1	0°	5280	
10°-20°	1032.5	31.2	54.7	5°	5177	474
20°-30°	1106.1	33.4	58.6	15°	3679	1032
30°-40°	599.4	18.1	31.8	25°	2452	1106
40°-50°	93.1	2.8	4.9	35°	939	599
50°-60°	2.6	0.1	0.1	45°	86	93
60°-70°	0.6	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°	2612.2	79.0	138.4	165°	0	0
0°-40°	3211.6	97.1	170.2	175°	0	0
0°-60°	3307.4	100.0	175.3	180°	0	0
0°-90°	3308.0	100.0	175.3			
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°	3308.0	100.0	175.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5280.1
2.5°	5276.6
5°	5176.9
7.5°	4929.9
10°	4546.4
12.5°	4099.7
15°	3679.4
17.5°	3324.0
20°	3014.0
22.5°	2735.5
25°	2451.9
27.5°	2131.4
30°	1754.9
32.5°	1338.0
35°	938.8
37.5°	600.9
40°	346.7
42.5°	185.6
45°	85.6
47.5°	45.5
50°	15.7
52.5°	1.7
55°	0.0
57.5°	1.7
60°	1.7
62.5°	0.0
65°	0.0
67.5°	1.7
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)