

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: **LSR8B60D010 EC8B609730 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: LSR8B60D010 EC8B609730 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
90 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4169.0 lumens  
Efficiency: 191.0%  
Efficacy: 70.1 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

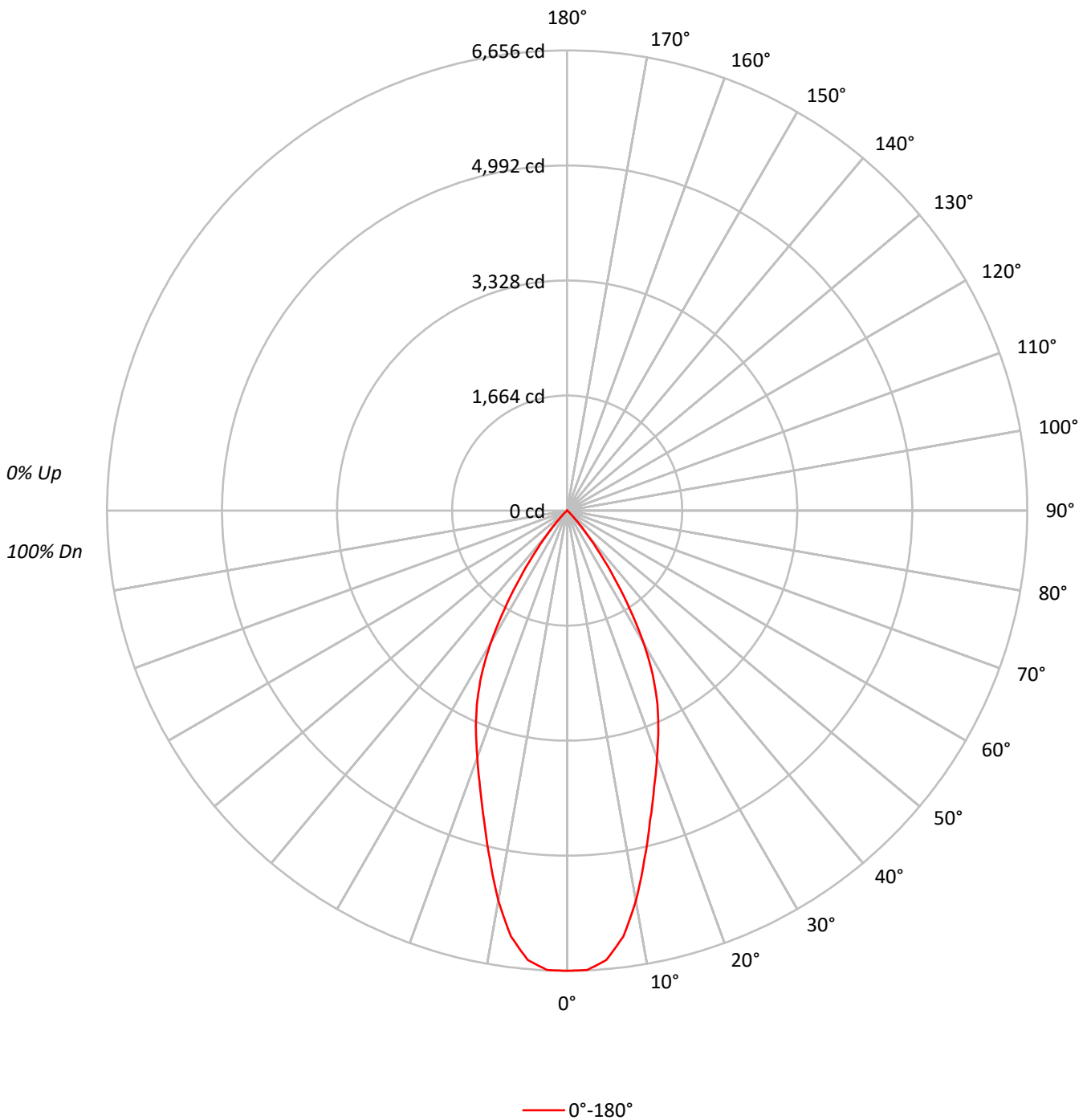
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	227	227	227	227	222	222	222	222	212	212	212	203	203	203	195	195	195	191	191	191
1	218	213	208	204	213	209	205	201	201	198	195	194	191	189	187	185	184	180	180	180
2	208	199	192	186	204	196	190	184	190	185	180	184	180	176	179	176	173	169	169	169
3	198	187	178	171	195	184	176	170	180	173	167	175	169	165	171	166	162	159	159	159
4	189	176	166	159	186	174	165	158	170	162	156	166	160	154	163	157	153	150	150	150
5	181	166	156	148	178	164	155	147	161	153	146	158	151	145	155	149	144	141	141	141
6	173	157	146	139	170	155	145	138	153	144	137	150	142	136	148	141	136	133	133	133
7	165	148	138	130	162	147	137	130	145	136	129	143	135	129	141	133	128	126	126	126
8	158	141	130	123	155	140	130	123	138	129	122	136	128	122	134	127	121	119	119	119
9	151	134	123	116	149	133	123	116	131	122	116	129	121	115	128	120	115	113	113	113
10	144	127	117	110	143	126	117	110	125	116	110	124	115	109	122	115	109	107	107	107

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

	0°
0°	205250
5°	201963
10°	179449
15°	148061
20°	124642
25°	105162
30°	78726
35°	44526
40°	17579
45°	4740
50°	907
55°	0
60°	117
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°	597.0	14.3	27.3	0°	6656	
10°-20°	1301.3	31.2	59.6	5°	6525	597
20°-30°	1394.0	33.4	63.9	15°	4638	1301
30°-40°	755.3	18.1	34.6	25°	3091	1394
40°-50°	117.5	2.8	5.4	35°	1183	755
50°-60°	3.1	0.1	0.1	45°	109	118
60°-70°	0.7	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°	3292.3	79.0	150.8	165°	0	0
0°-40°	4047.6	97.1	185.4	175°	0	0
0°-60°	4168.3	100.0	190.9	180°	0	0
0°-90°	4169.0	100.0	191.0			
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°	4169.0	100.0	191.0			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6656.1
2.5°	6650.7
5°	6524.6
7.5°	6213.6
10°	5731.0
12.5°	5166.2
15°	4637.9
17.5°	4189.5
20°	3798.3
22.5°	3447.4
25°	3090.8
27.5°	2686.1
30°	2211.0
32.5°	1686.4
35°	1182.8
37.5°	757.5
40°	436.7
42.5°	232.7
45°	108.7
47.5°	59.3
50°	18.9
52.5°	1.9
55°	0.0
57.5°	1.9
60°	1.9
62.5°	0.0
65°	0.0
67.5°	1.9
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)