

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: P251261

Luminaire Tested: **LSR8B70D010 EC8B709727 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251261  
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: LSR8B70D010 EC8B709727 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 4241.0 lumens  
Efficiency: 194.3%  
Efficacy: 55.9 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

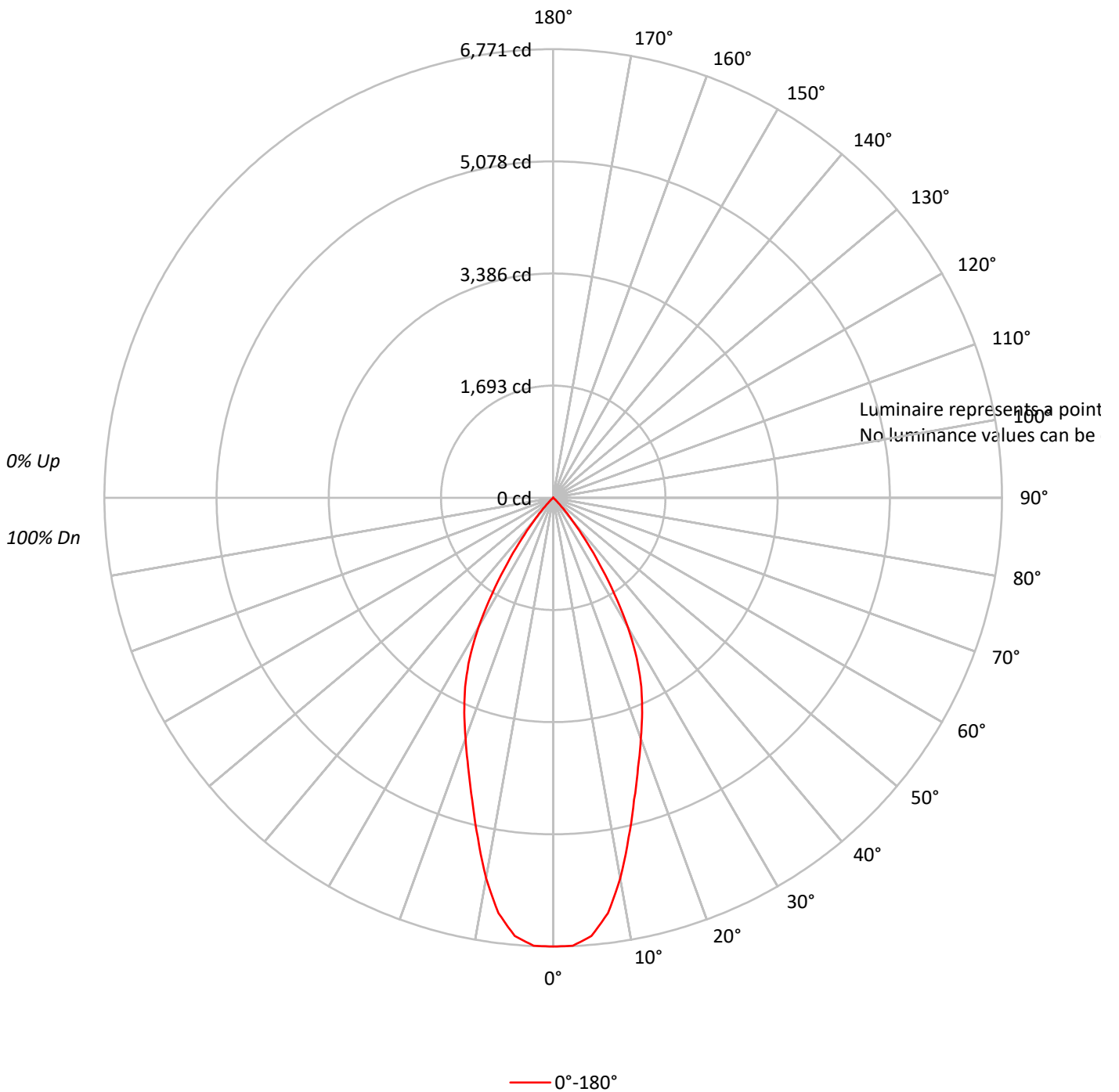
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	231	231	231	231	226	226	226	226	216	216	216	207	207	207	198	198	198	194		
1	221	216	212	208	217	212	208	204	204	201	198	197	195	192	191	189	187	183		
2	211	203	195	189	207	199	193	187	193	188	183	187	183	179	182	179	176	172		
3	202	190	181	174	198	188	179	173	183	176	170	178	172	168	174	169	165	162		
4	193	179	169	162	189	177	168	161	173	165	159	169	162	157	166	160	155	152		
5	184	169	158	151	181	167	157	150	164	155	149	161	153	147	158	151	146	143		
6	176	160	149	141	173	158	148	141	155	146	140	153	145	139	150	143	138	135		
7	168	151	140	133	165	150	140	132	147	138	132	145	137	131	143	136	130	128		
8	160	143	132	125	158	142	132	125	140	131	124	138	130	124	136	129	123	121		
9	153	136	125	118	151	135	125	118	133	124	118	132	123	117	130	122	117	114		
10	147	129	119	112	145	129	119	112	127	118	112	126	117	111	124	117	111	109		

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	607.4	14.3	27.8	0°	6771	
10°-20°	1323.8	31.2	60.6	5°	6637	607
20°-30°	1418.0	33.4	65.0	15°	4718	1324
30°-40°	768.4	18.1	35.2	25°	3144	1418
40°-50°	119.6	2.8	5.5	35°	1203	768
50°-60°	3.1	0.1	0.1	45°	110	120
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°	3349.2	79.0	153.4	165°	0	0
0°-40°	4117.6	97.1	188.6	175°	0	0
0°-60°	4240.3	100.0	194.2	180°	0	0
0°-90°	4241.0	100.0	194.3			
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°	4241.0	100.0	194.3			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6771.1
2.5°	6765.6
5°	6637.3
7.5°	6320.9
10°	5830.0
12.5°	5255.5
15°	4718.0
17.5°	4261.8
20°	3863.9
22.5°	3506.9
25°	3144.1
27.5°	2732.5
30°	2249.2
32.5°	1715.5
35°	1203.3
37.5°	770.6
40°	444.3
42.5°	236.8
45°	110.5
47.5°	60.4
50°	19.3
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)