

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: P245669

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245669  
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: LSR8B50D010 EC8B50930 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 3678.0 lumens  
Efficiency: 168.5%  
Efficacy: 69.4 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

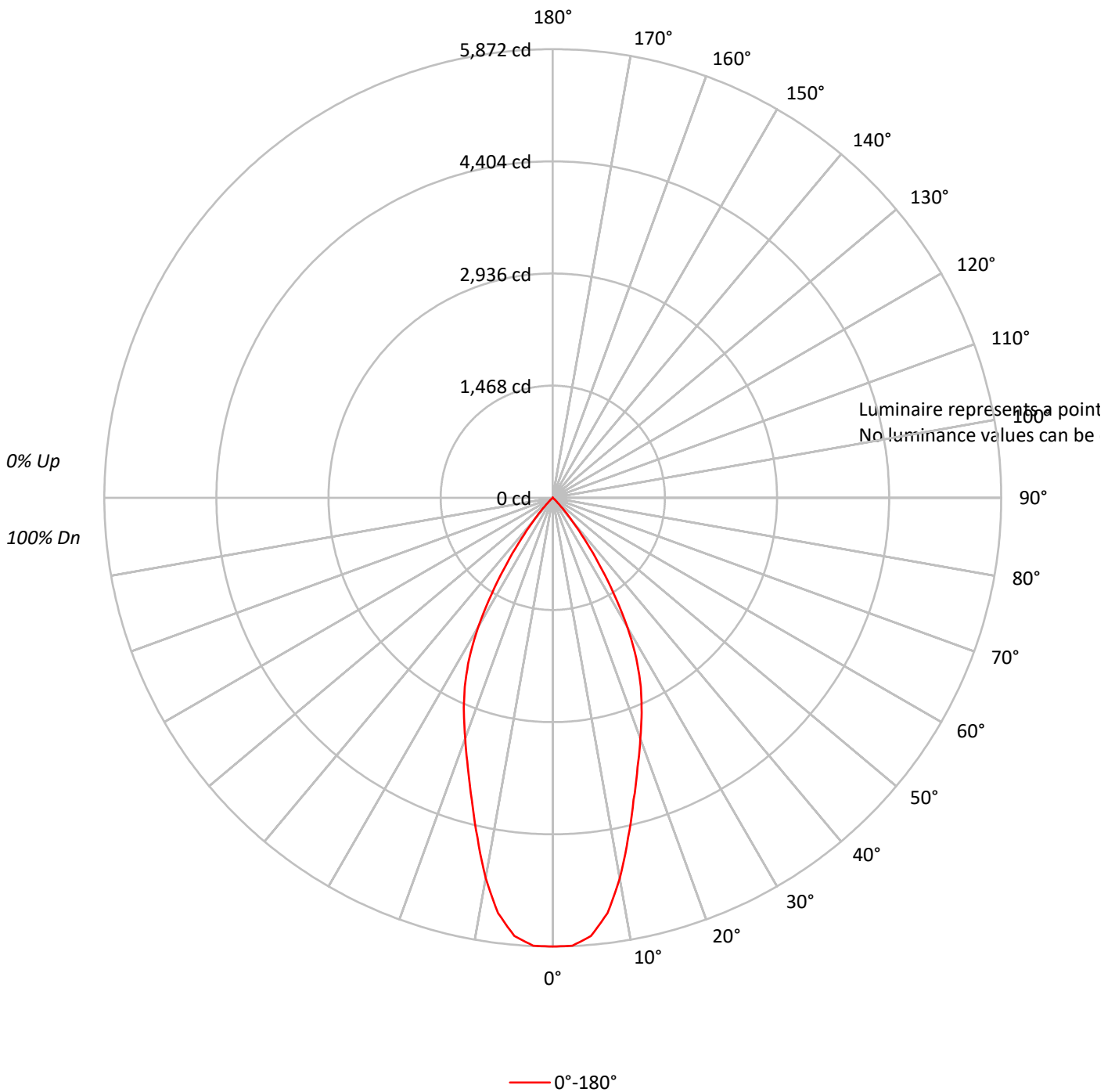
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	201	201	201	201	196	196	196	196	187	187	187	179	179	179	172	172	172	168		
1	192	188	184	180	188	184	181	177	177	174	172	171	169	167	165	164	162	159		
2	183	176	169	164	180	173	167	162	168	163	159	163	159	155	158	155	152	150		
3	175	165	157	151	172	163	156	150	158	152	148	154	149	145	151	147	143	141		
4	167	155	147	140	164	153	145	139	150	143	138	147	141	136	144	139	135	132		
5	159	146	137	131	157	145	136	130	142	135	129	139	133	128	137	131	127	124		
6	152	138	129	122	150	137	128	122	135	127	121	132	126	120	130	124	120	117		
7	145	131	122	115	143	130	121	115	128	120	114	126	119	114	124	118	113	111		
8	139	124	115	108	137	123	114	108	122	114	108	120	113	107	118	112	107	105		
9	133	118	109	103	131	117	108	102	116	108	102	114	107	102	113	106	101	99		
10	127	112	103	97	126	112	103	97	110	102	97	109	102	96	108	101	96	94		

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	526.7	14.3	24.1	0°	5872	
10°-20°	1148.0	31.2	52.6	5°	5756	527
20°-30°	1229.8	33.4	56.3	15°	4092	1148
30°-40°	666.4	18.1	30.5	25°	2727	1230
40°-50°	103.7	2.8	4.8	35°	1044	666
50°-60°	2.7	0.1	0.1	45°	96	104
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°	2904.5	79.0	133.1	165°	0	0
0°-40°	3570.9	97.1	163.6	175°	0	0
0°-60°	3677.4	100.0	168.5	180°	0	0
0°-90°	3678.0	100.0	168.5			
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°	3678.0	100.0	168.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5872.2
2.5°	5867.4
5°	5756.1
7.5°	5481.8
10°	5056.0
12.5°	4557.8
15°	4091.6
17.5°	3696.0
20°	3351.0
22.5°	3041.4
25°	2726.7
27.5°	2369.7
30°	1950.7
32.5°	1487.8
35°	1043.5
37.5°	668.3
40°	385.3
42.5°	205.4
45°	95.8
47.5°	52.4
50°	16.7
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)