

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: P245663

Luminaire Tested: **LSR8B50D010 EC8B50927 8LBN0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245663  
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 EC8B50927 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: 3488.7 lumens  
Efficiency: 159.8%  
Efficacy: 65.8 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

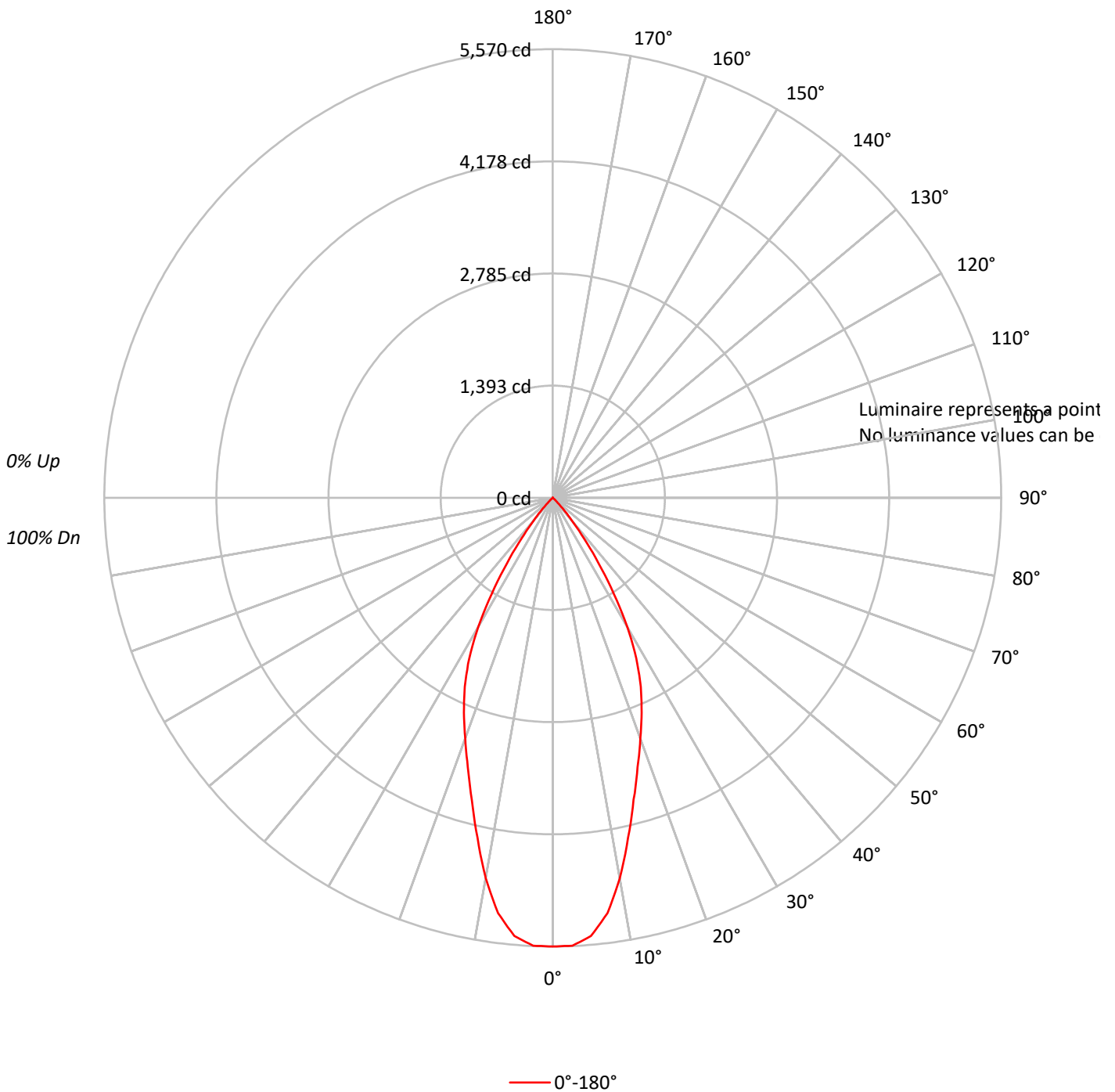
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	190	190	190	190	186	186	186	186	178	178	178	170	170	170	163	163	163	160	160	160	160	160
1	182	178	174	171	178	175	171	168	168	165	163	162	160	158	157	155	154	151	151	151	151	151
2	174	167	161	156	170	164	159	154	159	154	151	154	151	147	150	147	144	142	142	142	142	142
3	166	157	149	143	163	154	148	142	150	145	140	146	142	138	143	139	136	133	133	133	133	133
4	158	147	139	133	156	146	138	132	142	136	131	139	134	129	136	132	128	125	125	125	125	125
5	151	139	130	124	149	137	129	123	135	128	122	132	126	121	130	124	120	118	118	118	118	118
6	144	131	122	116	142	130	122	116	128	120	115	126	119	114	123	118	113	111	111	111	111	111
7	138	124	115	109	136	123	115	109	121	114	108	119	113	108	118	112	107	105	105	105	105	105
8	132	118	109	103	130	117	109	103	115	108	102	114	107	102	112	106	101	99	99	99	99	99
9	126	112	103	97	125	111	103	97	110	102	97	108	101	96	107	101	96	94	94	94	94	94
10	121	106	98	92	119	106	98	92	105	97	92	103	96	92	102	96	91	89	89	89	89	89

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	499.6	14.3	22.9	0°	5570	
10°-20°	1088.9	31.2	49.9	5°	5460	500
20°-30°	1166.5	33.4	53.4	15°	3881	1089
30°-40°	632.1	18.1	29.0	25°	2586	1166
40°-50°	98.4	2.8	4.5	35°	990	632
50°-60°	2.6	0.1	0.1	45°	91	98
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°	2755.0	79.0	126.2	165°	0	0
0°-40°	3387.1	97.1	155.2	175°	0	0
0°-60°	3488.1	100.0	159.8	180°	0	0
0°-90°	3488.7	100.0	159.8			
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°	3488.7	100.0	159.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5569.9
2.5°	5565.4
5°	5459.7
7.5°	5199.5
10°	4795.8
12.5°	4323.2
15°	3881.0
17.5°	3505.7
20°	3178.5
22.5°	2884.7
25°	2586.4
27.5°	2247.8
30°	1850.2
32.5°	1411.2
35°	989.8
37.5°	633.9
40°	365.5
42.5°	194.7
45°	90.9
47.5°	49.6
50°	15.9
52.5°	1.6
55°	0.0
57.5°	1.6
60°	1.6
62.5°	0.0
65°	0.0
67.5°	1.6
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)