

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: **LD8B50D010 ER8B509727 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: LD8B50D010 ER8B509727 8LBN0GPH  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 2183 (1 lamp)  
Luminaire Lumens: 3101.0 lumens  
Efficiency: 142.1%  
Efficacy: 58.5 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

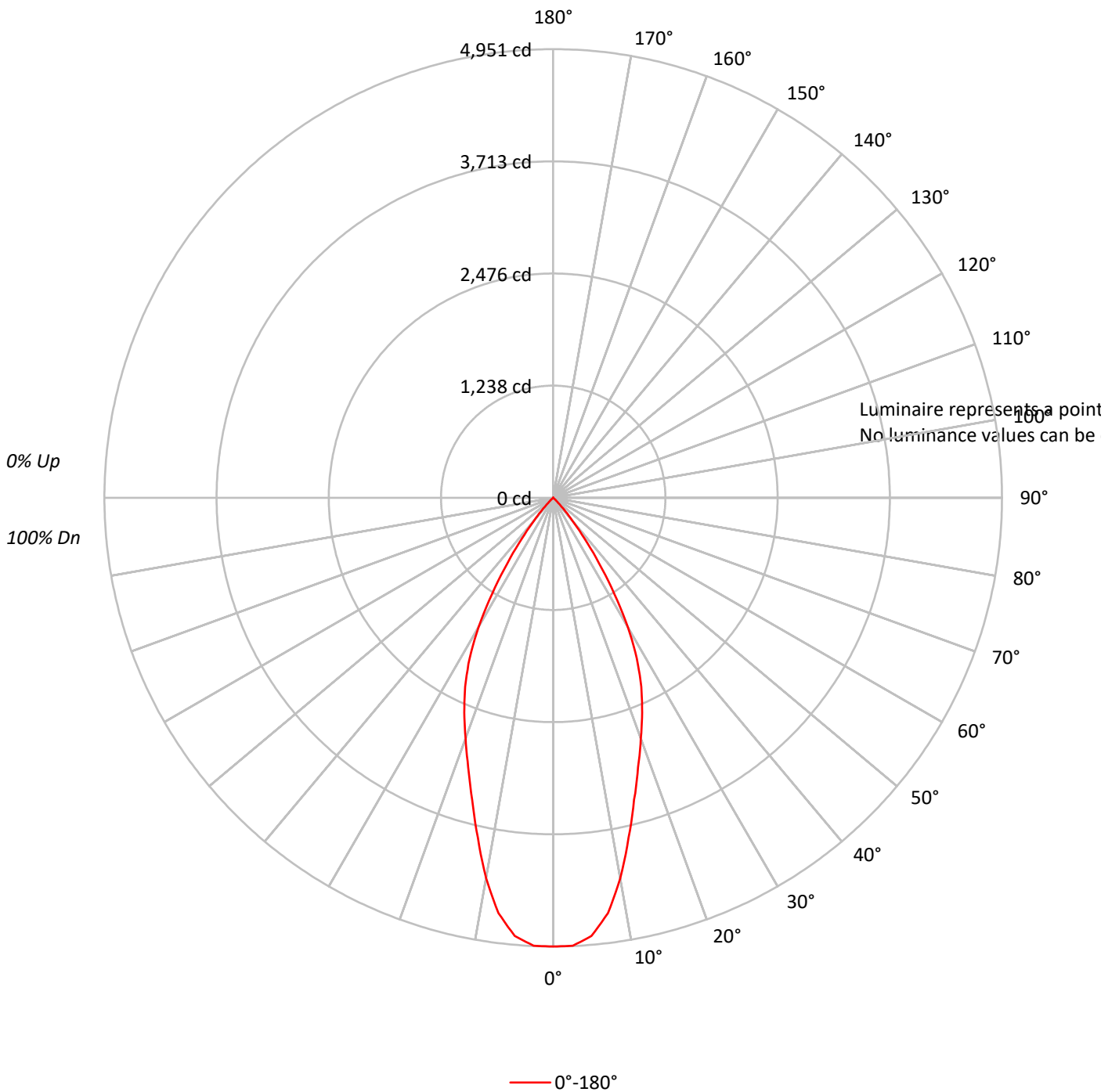
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	169	169	169	169	165	165	165	165	158	158	158	151	151	151	145	145	145	142	142	142
1	162	158	155	152	158	155	152	150	149	147	145	144	142	141	139	138	137	134	134	134
2	155	148	143	138	152	146	141	137	141	137	134	137	134	131	133	131	128	126	126	126
3	148	139	133	127	145	137	131	126	134	129	124	130	126	122	127	124	121	118	118	118
4	141	131	124	118	138	129	123	117	126	121	116	124	119	115	121	117	113	111	111	111
5	134	123	116	110	132	122	115	110	120	114	109	117	112	108	115	111	107	105	105	105
6	128	117	109	103	126	116	108	103	114	107	102	112	106	101	110	105	101	99	99	99
7	123	110	103	97	121	110	102	97	108	101	96	106	100	96	105	99	95	93	93	93
8	117	105	97	91	116	104	96	91	102	96	91	101	95	91	100	94	90	88	88	88
9	112	99	92	86	111	99	91	86	98	91	86	96	90	86	95	90	85	84	84	84
10	107	95	87	82	106	94	87	82	93	86	82	92	86	81	91	85	81	79	79	79

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	444.1	14.3	20.3	0°	4951	
10°-20°	968.0	31.2	44.3	5°	4853	444
20°-30°	1036.9	33.4	47.5	15°	3450	968
30°-40°	561.9	18.1	25.7	25°	2299	1037
40°-50°	87.4	2.8	4.0	35°	880	562
50°-60°	2.3	0.1	0.1	45°	81	87
60°-70°	0.5	0.0	0.0	55°	0	2
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°	2448.9	79.0	112.2	165°	0	0
0°-40°	3010.7	97.1	137.9	175°	0	0
0°-60°	3100.5	100.0	142.0	180°	0	0
0°-90°	3101.0	100.0	142.1			
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°	3101.0	100.0	142.1			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4951.0
2.5°	4947.0
5°	4853.1
7.5°	4621.8
10°	4262.9
12.5°	3842.8
15°	3449.8
17.5°	3116.2
20°	2825.3
22.5°	2564.2
25°	2299.0
27.5°	1998.0
30°	1644.6
32.5°	1254.4
35°	879.8
37.5°	563.5
40°	324.9
42.5°	173.1
45°	80.8
47.5°	44.1
50°	14.1
52.5°	1.4
55°	0.0
57.5°	1.4
60°	1.4
62.5°	0.0
65°	0.0
67.5°	1.4
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)