

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: P246383

Luminaire Tested: **LD8B50D010 ER8B509727 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B50D010 ER8B509727 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 2203.9 lumens  
Efficiency: 116.8%  
Efficacy: 41.6 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

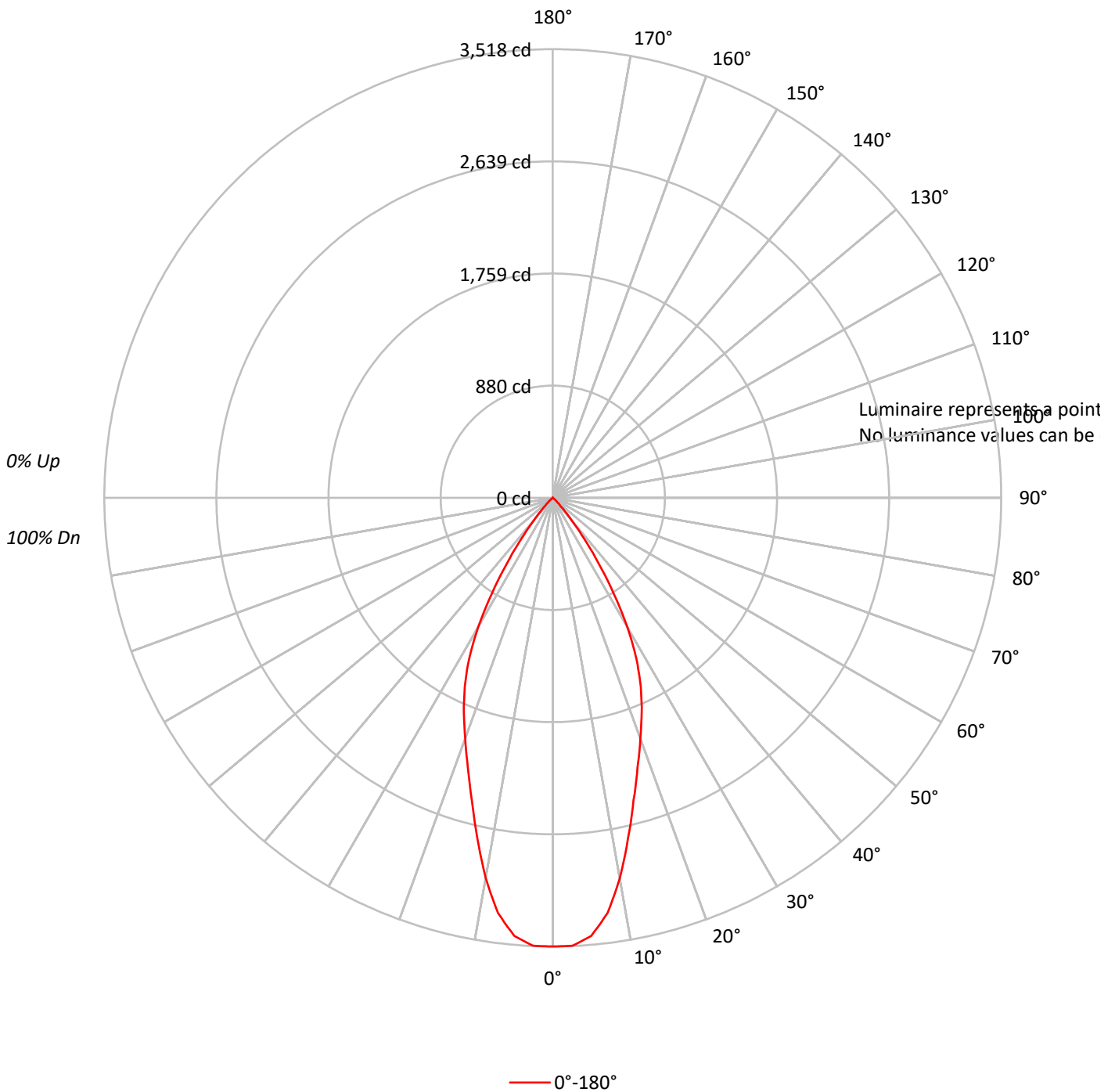
Input Watts (W): 53  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	139	139	139	139	136	136	136	136	130	130	130	124	124	124	119	119	119	117	117	117
1	133	130	127	125	130	128	125	123	123	121	119	119	117	116	115	113	112	110	108	107
2	127	122	117	114	125	120	116	113	116	113	110	113	110	108	110	107	106	104	102	101
3	121	114	109	105	119	113	108	104	110	106	102	107	104	101	104	102	99	97	95	94
4	116	108	102	97	114	106	101	97	104	99	95	102	98	94	100	96	93	92	90	89
5	111	102	95	91	109	100	95	90	98	93	89	97	92	89	95	91	88	86	84	83
6	106	96	89	85	104	95	89	85	93	88	84	92	87	83	90	86	83	81	79	78
7	101	91	84	80	99	90	84	80	89	83	79	87	82	79	86	82	78	77	75	74
8	96	86	80	75	95	85	79	75	84	79	75	83	78	74	82	77	74	73	71	70
9	92	82	75	71	91	81	75	71	80	75	71	79	74	70	78	74	70	69	67	67
10	88	78	72	67	87	77	71	67	76	71	67	76	70	67	75	70	67	65	65	65

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	315.6	14.3	16.7	0°	3518	
10°-20°	687.9	31.2	36.5	5°	3449	316
20°-30°	736.9	33.4	39.1	15°	2452	688
30°-40°	399.4	18.1	21.2	25°	1634	737
40°-50°	62.0	2.8	3.3	35°	626	399
50°-60°	1.7	0.1	0.1	45°	57	62
60°-70°	0.4	0.0	0.0	55°	0	2
70°-80°	0.0	0.0	0.0	65°	0	0
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°	1740.4	79.0	92.2	165°	0	0
0°-40°	2139.8	97.1	113.4	175°	0	0
0°-60°	2203.5	100.0	116.8	180°	0	0
0°-90°	2203.9	100.0	116.8			
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°	2203.9	100.0	116.8			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3517.9
2.5°	3515.6
5°	3449.2
7.5°	3284.6
10°	3029.1
12.5°	2731.5
15°	2451.5
17.5°	2214.6
20°	2008.1
22.5°	1822.6
25°	1633.6
27.5°	1420.1
30°	1169.2
32.5°	891.5
35°	625.5
37.5°	400.3
40°	231.0
42.5°	123.6
45°	57.0
47.5°	30.3
50°	10.4
52.5°	1.1
55°	0.0
57.5°	1.1
60°	1.1
62.5°	0.0
65°	0.0
67.5°	1.1
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)