

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: P839510

Luminaire Tested: **LD6C50D010 EU6509050 6LCSQWLI**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/29/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509050 6LCSQWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

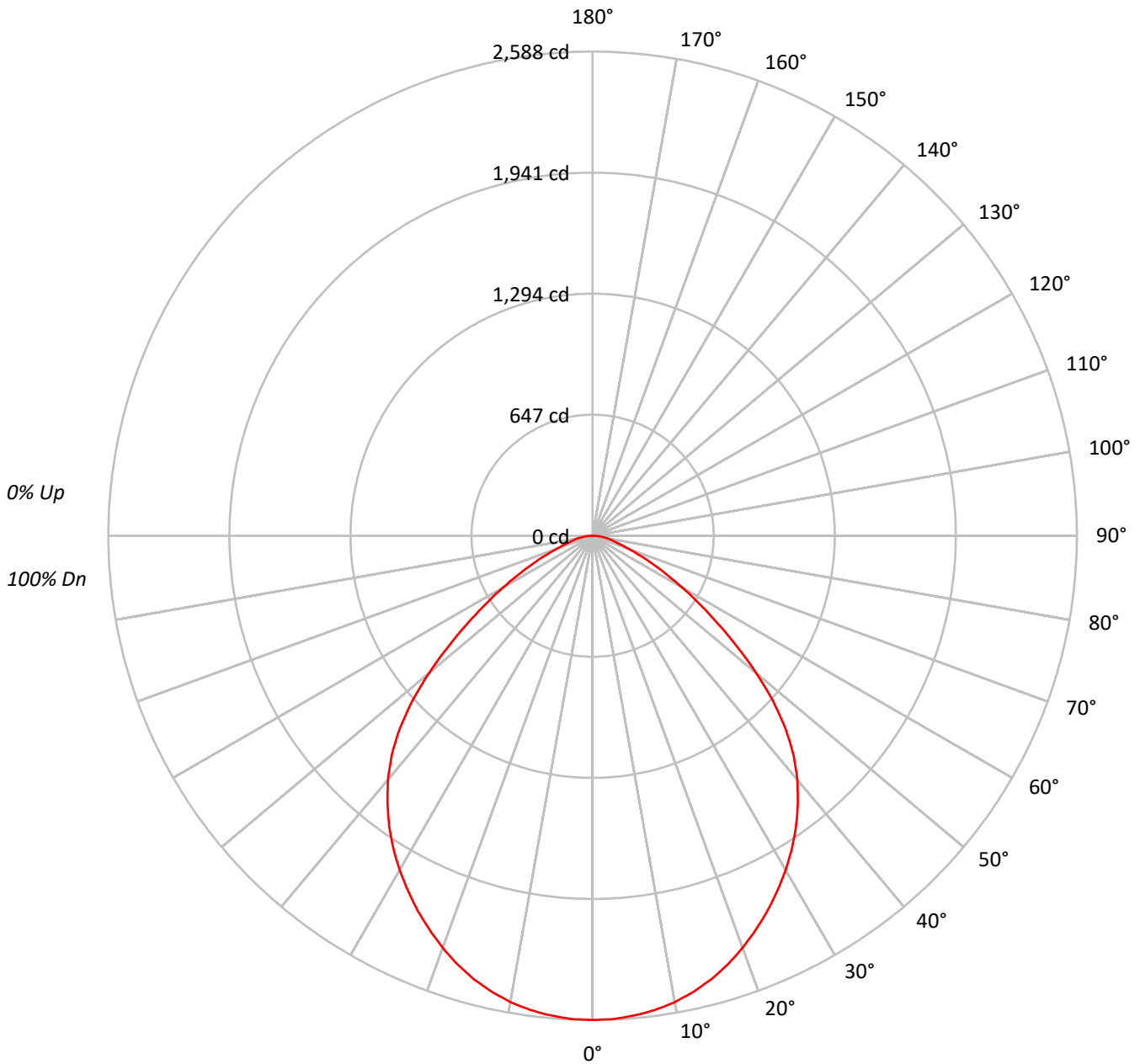
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5518.0 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V):  
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

TEST NUMBER: P839510

CATALOG NUMBER: LD6C50D010 EU6509050 6LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P839510

CATALOG NUMBER: LD6C50D010 EU6509050 6LCSQWLI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88			88
2	102	95	89	85	100	93	88	84	90	86	82	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51			51
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46			46
7	70	57	49	44	68	57	49	43	55	48	43	54	47	43	52	47	43	41			41
8	65	53	45	39	64	52	44	39	51	44	39	49	43	39	48	43	38	37			37
9	61	48	41	36	60	48	41	35	47	40	35	46	40	35	45	39	35	33			33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32	30			30

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

	0°
0°	111424
5°	111240
10°	110637
15°	109355
20°	107372
25°	105047
30°	102545
35°	99619
40°	95611
45°	88692
50°	76407
55°	60945
60°	47447
65°	35515
70°	25769
75°	20428
80°	19142
85°	19069



TEST NUMBER: P839510

CATALOG NUMBER: LD6C50D010 EU6509050 6LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	4.4
10°-20°	690.9	12.5
20°-30°	1018.2	18.5
30°-40°	1182.8	21.4
40°-50°	1111.8	20.1
50°-60°	735.9	13.3
60°-70°	354.6	6.4
70°-80°	136.7	2.5
80°-90°	42.6	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1953.4	35.4
0°-40°	3136.2	56.8
0°-60°	4984.0	90.3
0°-90°	5518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2588	
5°	2574	244
15°	2453	691
25°	2211	1018
35°	1895	1183
45°	1457	1112
55°	812	736
65°	349	355
75°	123	137
85°	39	43
90°	0	



TEST NUMBER: P839510

CATALOG NUMBER: LD6C50D010 EU6509050 6LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2587.9
2.5°	2585.5
5°	2573.8
7.5°	2556.3
10°	2530.6
12.5°	2495.5
15°	2453.3
17.5°	2401.9
20°	2343.4
22.5°	2279.0
25°	2211.2
27.5°	2138.6
30°	2062.6
32.5°	1981.9
35°	1895.3
37.5°	1800.5
40°	1701.1
42.5°	1588.8
45°	1456.6
47.5°	1306.8
50°	1140.7
52.5°	972.2
55°	811.9
57.5°	673.9
60°	551.0
62.5°	441.1
65°	348.6
67.5°	270.3
70°	204.7
72.5°	155.6
75°	122.8
77.5°	99.4
80°	77.2
82.5°	57.3
85°	38.6
87.5°	22.2
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)