

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: P839500

Luminaire Tested: **LD6C40D010 EU6409050 6LCSQWLI**

Issue Date: 6/29/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P839500  
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: LD6C40D010 EU6409050 6LCSQWLI  
Description: 6 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 6LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

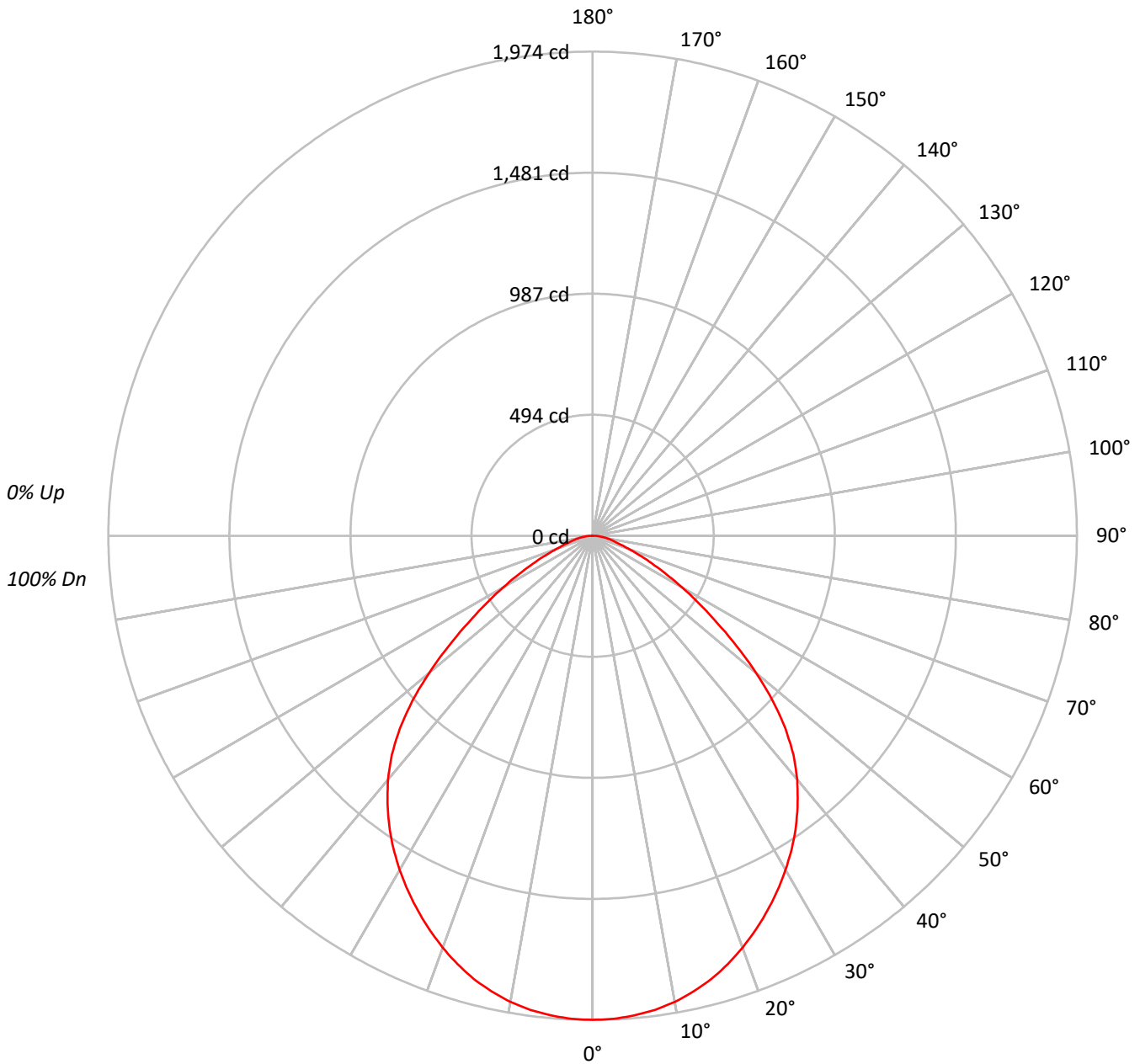
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4208.0 lumens  
Efficiency: N/A  
Efficacy: 89.5 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): 47  
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

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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			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°	84970
5°	84832
10°	84371
15°	83394
20°	81878
25°	80106
30°	78199
35°	75967
40°	72909
45°	67636
50°	58268
55°	46480
60°	36184
65°	27089
70°	19651
75°	15587
80°	14604
85°	14524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	4.4
10°-20°	526.9	12.5
20°-30°	776.5	18.5
30°-40°	902.0	21.4
40°-50°	847.9	20.1
50°-60°	561.2	13.3
60°-70°	270.4	6.4
70°-80°	104.3	2.5
80°-90°	32.5	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°	1489.7	35.4
0°-40°	2391.7	56.8
0°-60°	3800.8	90.3
0°-90°	4208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1974	
5°	1963	186
15°	1871	527
25°	1686	776
35°	1445	902
45°	1111	848
55°	619	561
65°	266	270
75°	94	104
85°	29	33
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1973.5
2.5°	1971.7
5°	1962.8
7.5°	1949.4
10°	1929.8
12.5°	1903.0
15°	1870.9
17.5°	1831.6
20°	1787.0
22.5°	1738.0
25°	1686.2
27.5°	1630.9
30°	1572.9
32.5°	1511.4
35°	1445.3
37.5°	1373.1
40°	1297.2
42.5°	1211.6
45°	1110.8
47.5°	996.6
50°	869.9
52.5°	741.4
55°	619.2
57.5°	513.9
60°	420.2
62.5°	336.4
65°	265.9
67.5°	206.1
70°	156.1
72.5°	118.7
75°	93.7
77.5°	75.8
80°	58.9
82.5°	43.7
85°	29.4
87.5°	17.0
90°	0.0



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— 0°-180°







(END OF REPORT)