

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: P839509

Luminaire Tested: **LD6C50D010 EU6509040 6LCSQWLI**

Issue Date: 6/29/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P839509  
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 EU6509040 6LCSQWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

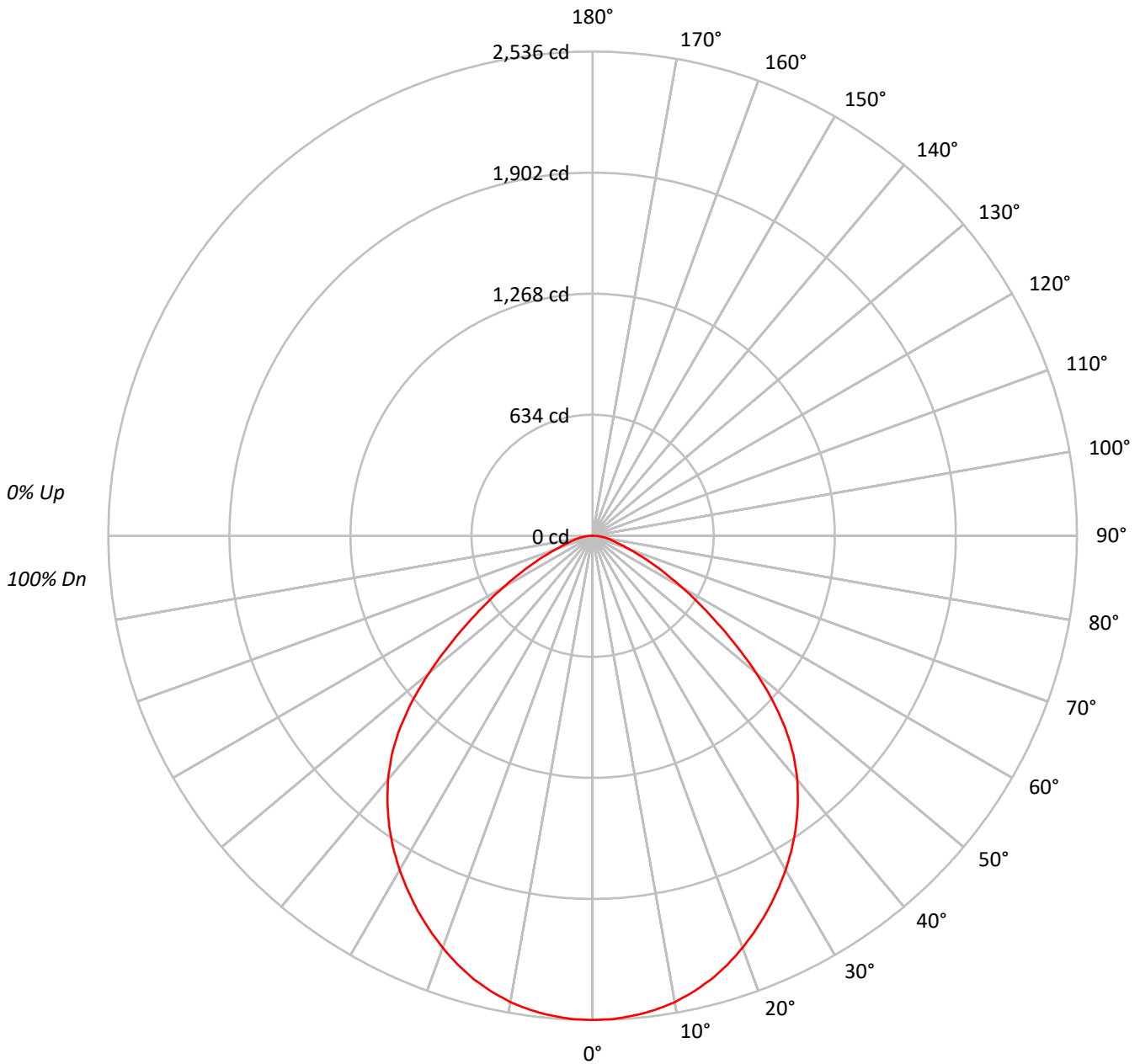
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5407.0 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

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

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

	0°
0°	109181
5°	109005
10°	108412
15°	107157
20°	105209
25°	102933
30°	100482
35°	97617
40°	93688
45°	86908
50°	74867
55°	59722
60°	46500
65°	34802
70°	25253
75°	20029
80°	18770
85°	18674



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.4	4.4
10°-20°	677.0	12.5
20°-30°	997.7	18.5
30°-40°	1159.0	21.4
40°-50°	1089.4	20.1
50°-60°	721.1	13.3
60°-70°	347.5	6.4
70°-80°	134.0	2.5
80°-90°	41.8	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°	1914.1	35.4
0°-40°	3073.2	56.8
0°-60°	4883.7	90.3
0°-90°	5407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2536	
5°	2522	239
15°	2404	677
25°	2167	998
35°	1857	1159
45°	1427	1089
55°	796	721
65°	342	347
75°	120	134
85°	38	42
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2535.8
2.5°	2533.5
5°	2522.1
7.5°	2504.9
10°	2479.7
12.5°	2445.3
15°	2404.0
17.5°	2353.5
20°	2296.2
22.5°	2233.2
25°	2166.7
27.5°	2095.6
30°	2021.1
32.5°	1942.0
35°	1857.2
37.5°	1764.3
40°	1666.9
42.5°	1556.8
45°	1427.3
47.5°	1280.5
50°	1117.7
52.5°	952.7
55°	795.6
57.5°	660.3
60°	540.0
62.5°	432.2
65°	341.6
67.5°	264.8
70°	200.6
72.5°	152.5
75°	120.4
77.5°	97.4
80°	75.7
82.5°	56.2
85°	37.8
87.5°	21.8
90°	0.0



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— 0°-180°







(END OF REPORT)