

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: P839506

Luminaire Tested: **LD6C50D010 EU6509027 6LCSQWLI**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839506
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 EU6509027 6LCSQWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

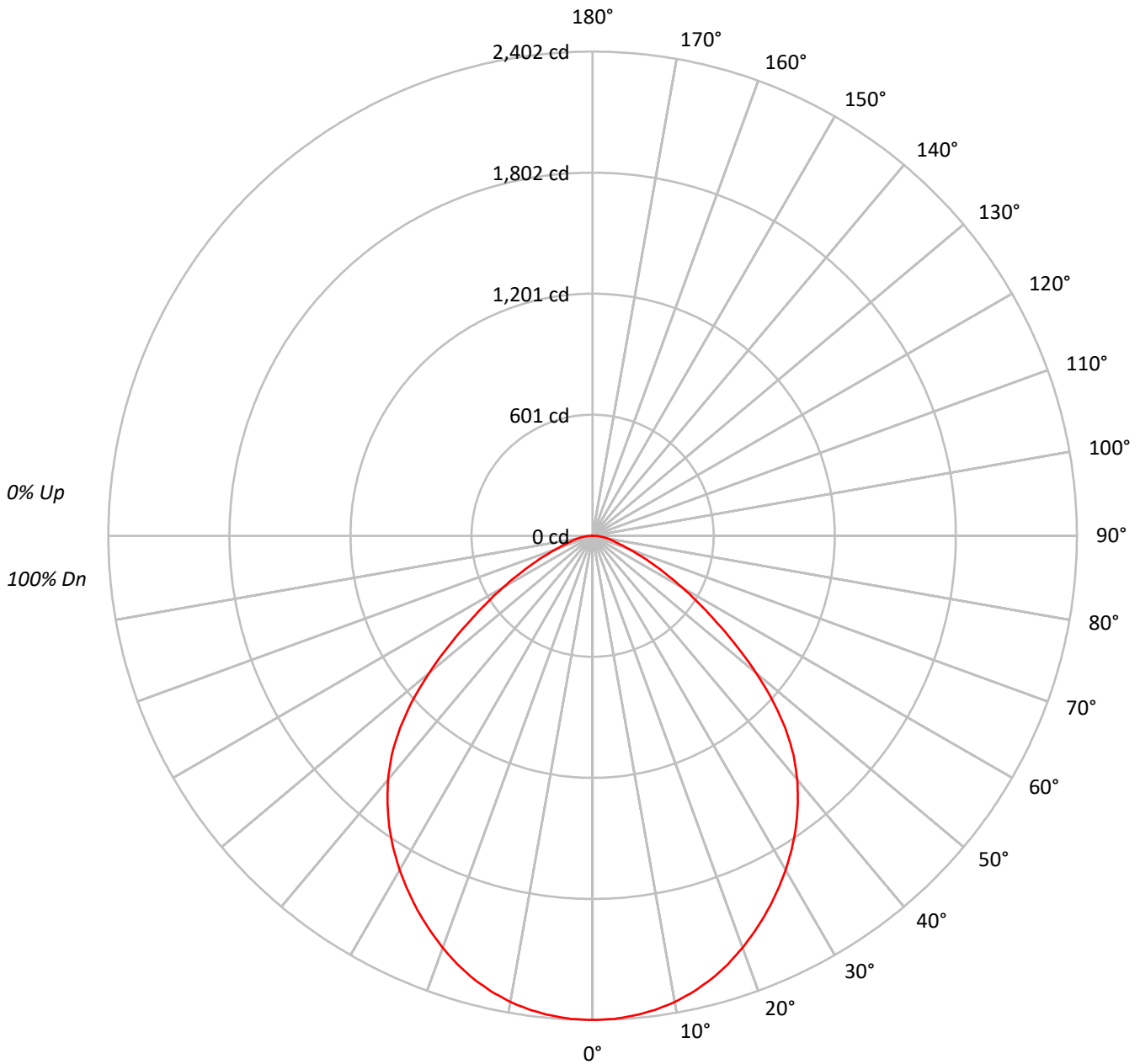
Lumens per Lamp: N/A
Luminaire Lumens: 5121.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
Input Current (A_{in}): 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				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°	103407
5°	103240
10°	102676
15°	101487
20°	99647
25°	97488
30°	95167
35°	92450
40°	88731
45°	82311
50°	70908
55°	56562
60°	44037
65°	32968
70°	23918
75°	18964
80°	17778
85°	17685



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	4.4
10°-20°	641.2	12.5
20°-30°	944.9	18.5
30°-40°	1097.7	21.4
40°-50°	1031.8	20.1
50°-60°	683.0	13.3
60°-70°	329.1	6.4
70°-80°	126.9	2.5
80°-90°	39.6	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°	1812.9	35.4
0°-40°	2910.6	56.8
0°-60°	4625.4	90.3
0°-90°	5121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5121.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2402	
5°	2389	227
15°	2277	641
25°	2052	945
35°	1759	1098
45°	1352	1032
55°	754	683
65°	324	329
75°	114	127
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2401.7
2.5°	2399.5
5°	2388.7
7.5°	2372.4
10°	2348.5
12.5°	2315.9
15°	2276.8
17.5°	2229.1
20°	2174.8
22.5°	2115.1
25°	2052.1
27.5°	1984.8
30°	1914.2
32.5°	1839.3
35°	1758.9
37.5°	1671.0
40°	1578.7
42.5°	1474.5
45°	1351.8
47.5°	1212.8
50°	1058.6
52.5°	902.3
55°	753.5
57.5°	625.4
60°	511.4
62.5°	409.3
65°	323.6
67.5°	250.8
70°	190.0
72.5°	144.4
75°	114.0
77.5°	92.3
80°	71.7
82.5°	53.2
85°	35.8
87.5°	20.6
90°	0.0



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— 0°-180°







(END OF REPORT)