

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: P839308

Luminaire Tested: **LD4C45D010 EU4459050 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839308
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: LD4C45D010 EU4459050 4LBPSMW
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

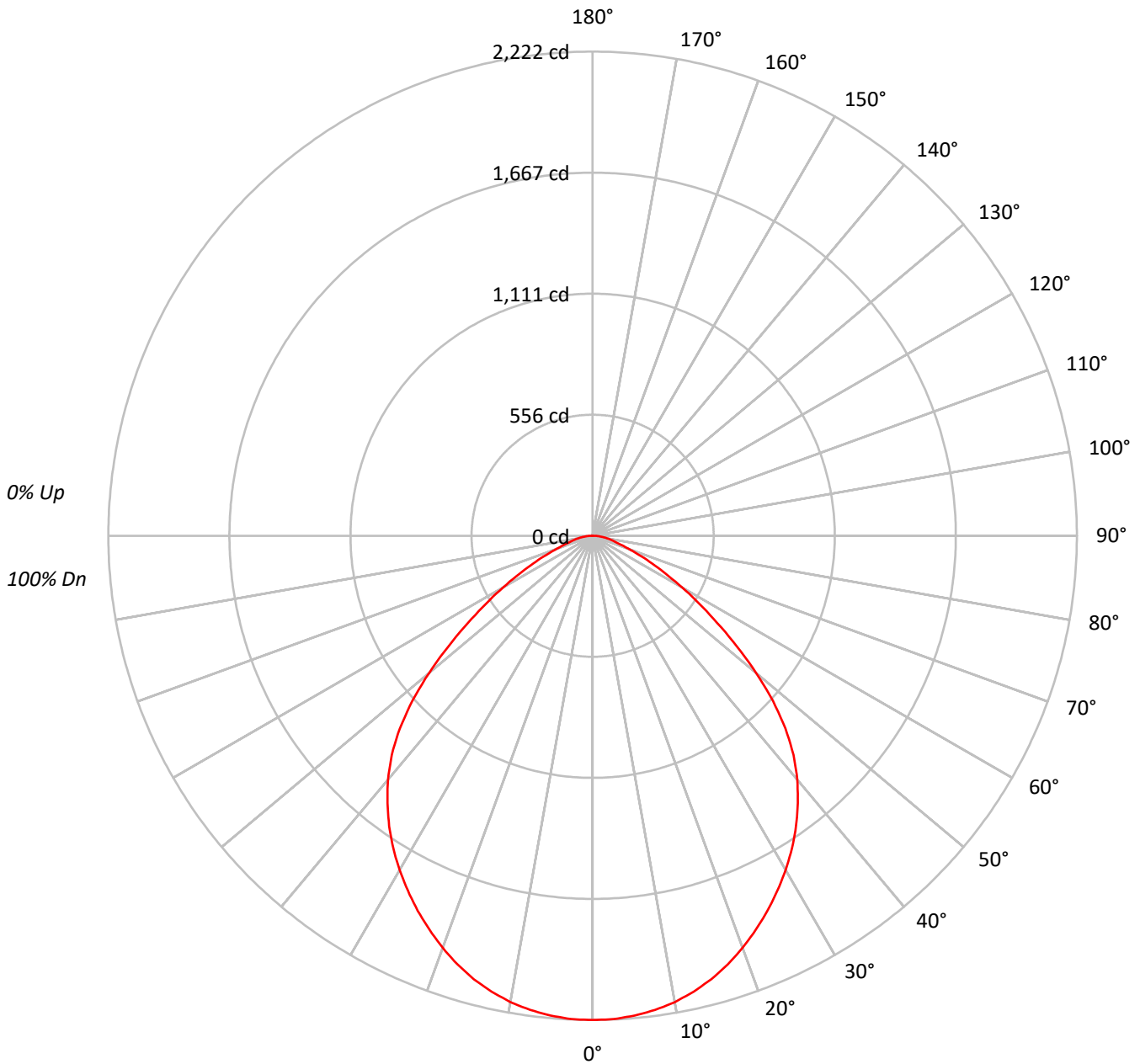
Lumens per Lamp: N/A
Luminaire Lumens: 4738.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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

TEST NUMBER: P839308

CATALOG NUMBER: LD4C45D010 EU4459050 4LBPSMW

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°	272993
5°	272543
10°	271054
15°	267920
20°	263058
25°	257362
30°	251232
35°	244072
40°	234242
45°	217298
50°	187189
55°	149332
60°	116244
65°	87034
70°	63147
75°	50078
80°	46906
85°	46798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	4.4
10°-20°	593.2	12.5
20°-30°	874.3	18.5
30°-40°	1015.6	21.4
40°-50°	954.6	20.1
50°-60°	631.9	13.3
60°-70°	304.5	6.4
70°-80°	117.4	2.5
80°-90°	36.6	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°	1677.3	35.4
0°-40°	2692.9	56.8
0°-60°	4279.4	90.3
0°-90°	4738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4738.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2222	
5°	2210	210
15°	2106	593
25°	1899	874
35°	1627	1016
45°	1251	955
55°	697	632
65°	299	305
75°	106	117
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2222.1
2.5°	2220.1
5°	2210.0
7.5°	2194.9
10°	2172.8
12.5°	2142.7
15°	2106.5
17.5°	2062.3
20°	2012.1
22.5°	1956.9
25°	1898.6
27.5°	1836.3
30°	1771.0
32.5°	1701.7
35°	1627.4
37.5°	1546.0
40°	1460.6
42.5°	1364.2
45°	1250.7
47.5°	1122.1
50°	979.4
52.5°	834.8
55°	697.2
57.5°	578.6
60°	473.1
62.5°	378.7
65°	299.4
67.5°	232.1
70°	175.8
72.5°	133.6
75°	105.5
77.5°	85.4
80°	66.3
82.5°	49.2
85°	33.2
87.5°	19.1
90°	0.0



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— 0°-180°







(END OF REPORT)