

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: P839299

Luminaire Tested: **LD4C45D010 EU4459030 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839299
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 EU4459030 4LBPSMW
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

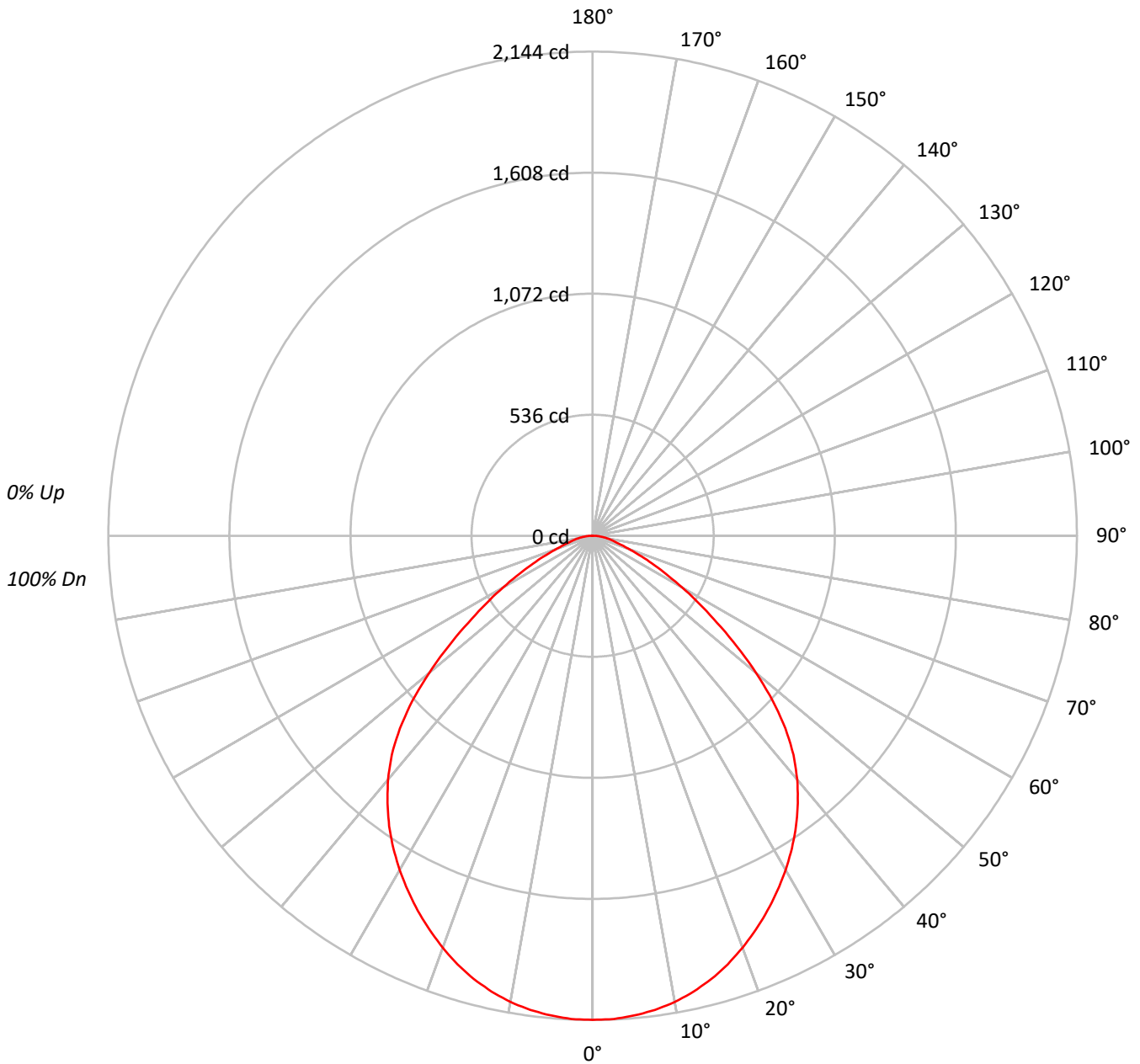
Lumens per Lamp: N/A
Luminaire Lumens: 4571.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	263361
5°	262936
10°	261511
15°	258483
20°	253788
25°	248294
30°	242380
35°	235463
40°	225983
45°	209636
50°	180595
55°	144063
60°	112165
65°	83953
70°	60920
75°	48321
80°	45279
85°	45107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.4	4.4
10°-20°	572.3	12.5
20°-30°	843.4	18.5
30°-40°	979.8	21.4
40°-50°	921.0	20.1
50°-60°	609.6	13.3
60°-70°	293.8	6.4
70°-80°	113.3	2.5
80°-90°	35.4	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°	1618.2	35.4
0°-40°	2598.0	56.8
0°-60°	4128.6	90.3
0°-90°	4571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4571.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2144	
5°	2132	202
15°	2032	572
25°	1832	843
35°	1570	980
45°	1207	921
55°	673	610
65°	289	294
75°	102	113
85°	32	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2143.7
2.5°	2141.8
5°	2132.1
7.5°	2117.6
10°	2096.3
12.5°	2067.2
15°	2032.3
17.5°	1989.7
20°	1941.2
22.5°	1887.9
25°	1831.7
27.5°	1771.6
30°	1708.6
32.5°	1641.7
35°	1570.0
37.5°	1491.5
40°	1409.1
42.5°	1316.1
45°	1206.6
47.5°	1082.5
50°	944.9
52.5°	805.4
55°	672.6
57.5°	558.2
60°	456.5
62.5°	365.4
65°	288.8
67.5°	223.9
70°	169.6
72.5°	128.9
75°	101.8
77.5°	82.4
80°	64.0
82.5°	47.5
85°	32.0
87.5°	18.4
90°	0.0



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— 0°-180°







(END OF REPORT)