

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: P839296

Luminaire Tested: **LD4C45D010 EU4459027 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839296
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 EU4459027 4LBPSMW
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

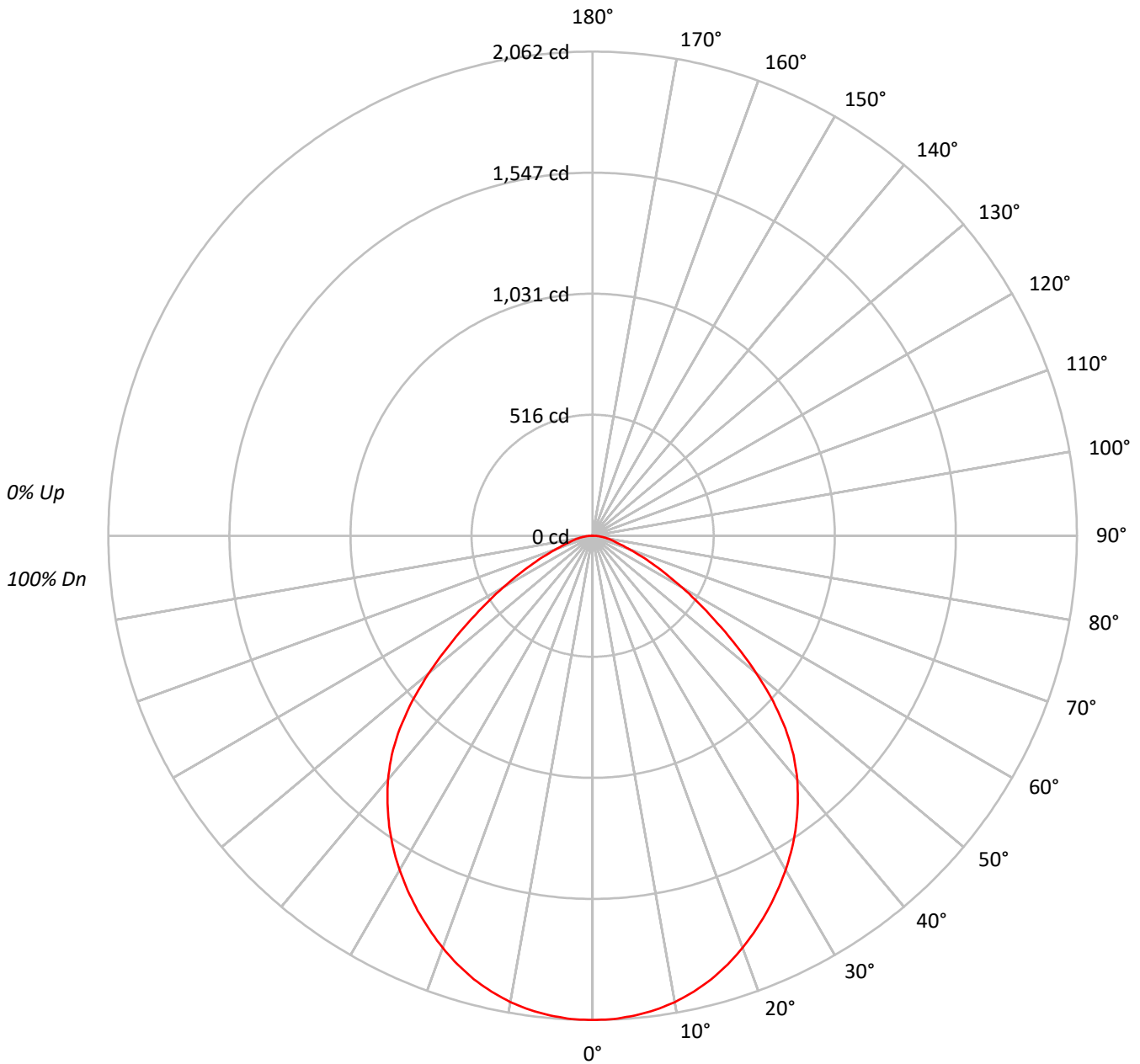
Lumens per Lamp: N/A
Luminaire Lumens: 4397.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	253336
5°	252935
10°	251556
15°	248638
20°	244127
25°	238846
30°	233159
35°	226509
40°	217387
45°	201661
50°	173714
55°	138580
60°	107890
65°	80755
70°	58585
75°	46470
80°	43510
85°	43415



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	4.4
10°-20°	550.6	12.5
20°-30°	811.3	18.5
30°-40°	942.5	21.4
40°-50°	885.9	20.1
50°-60°	586.4	13.3
60°-70°	282.6	6.4
70°-80°	109.0	2.5
80°-90°	34.0	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°	1556.6	35.4
0°-40°	2499.1	56.8
0°-60°	3971.5	90.3
0°-90°	4397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2062	
5°	2051	195
15°	1955	551
25°	1762	811
35°	1510	942
45°	1161	886
55°	647	586
65°	278	283
75°	98	109
85°	31	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2062.1
2.5°	2060.3
5°	2051.0
7.5°	2037.0
10°	2016.5
12.5°	1988.5
15°	1954.9
17.5°	1913.9
20°	1867.3
22.5°	1816.0
25°	1762.0
27.5°	1704.2
30°	1643.6
32.5°	1579.2
35°	1510.3
37.5°	1434.7
40°	1355.5
42.5°	1266.0
45°	1160.7
47.5°	1041.3
50°	908.9
52.5°	774.7
55°	647.0
57.5°	537.0
60°	439.1
62.5°	351.5
65°	277.8
67.5°	215.4
70°	163.1
72.5°	124.0
75°	97.9
77.5°	79.2
80°	61.5
82.5°	45.7
85°	30.8
87.5°	17.7
90°	0.0



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— 0°-180°







(END OF REPORT)