

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: P839317

Luminaire Tested: **LD4C50D010 EU4509035 4LBPSMW**

Issue Date: 6/29/2023

Test Information

Test Method: LM-79-08
Report Number: P839317
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: LD4C50D010 EU4509035 4LBPSMW
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPS TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

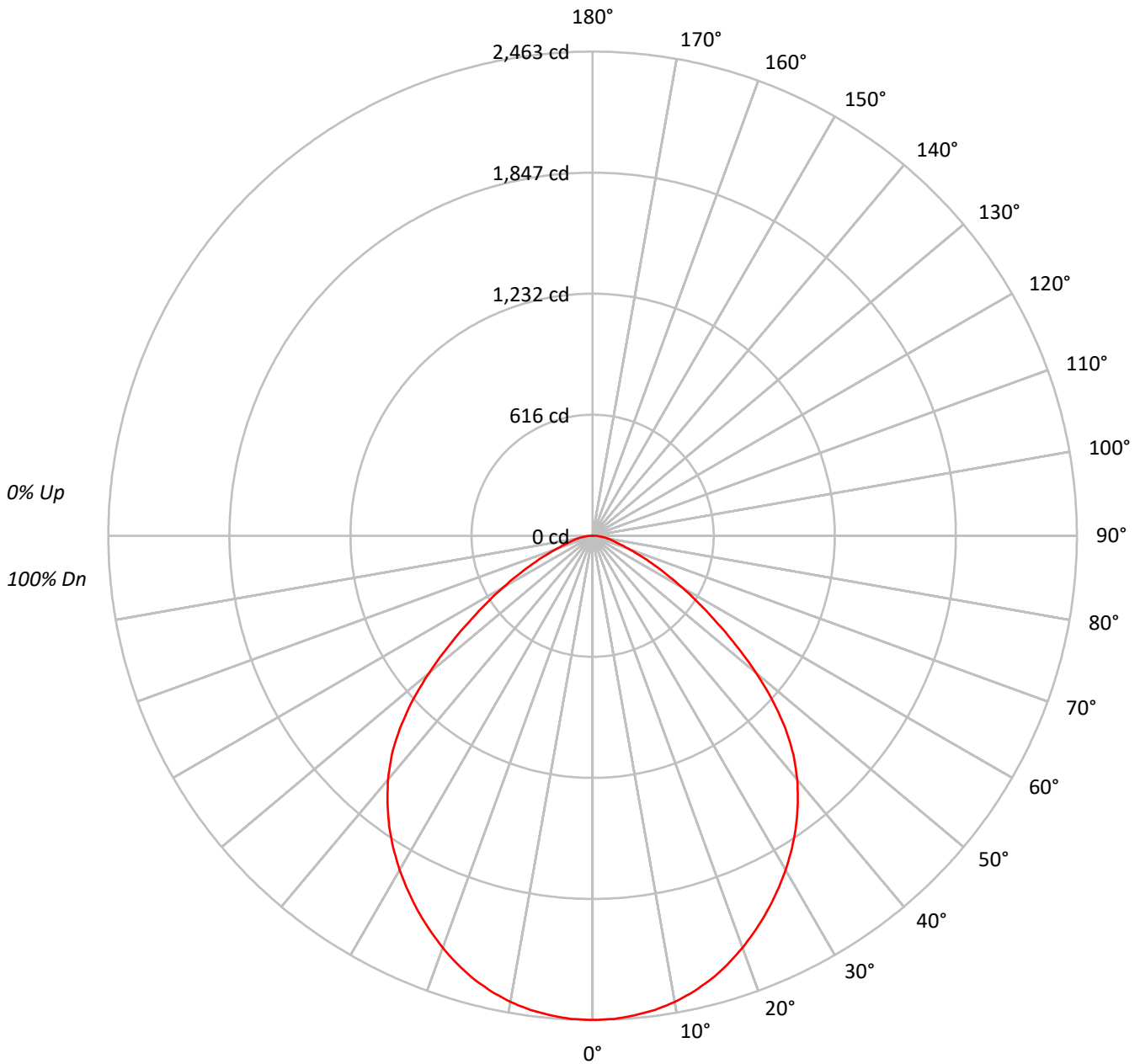
Lumens per Lamp: N/A
Luminaire Lumens: 5251.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P839317

CATALOG NUMBER: LD4C50D010 EU4509035 4LBPSMW

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°	302551
5°	302054
10°	300407
15°	296931
20°	291546
25°	285232
30°	278441
35°	270497
40°	259613
45°	240822
50°	207467
55°	165482
60°	128849
65°	96453
70°	69972
75°	55489
80°	52000
85°	51732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	4.4
10°-20°	657.5	12.5
20°-30°	968.9	18.5
30°-40°	1125.6	21.4
40°-50°	1058.0	20.1
50°-60°	700.3	13.3
60°-70°	337.5	6.4
70°-80°	130.1	2.5
80°-90°	40.6	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°	1858.9	35.4
0°-40°	2984.5	56.8
0°-60°	4742.8	90.3
0°-90°	5251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5251.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2463	
5°	2449	233
15°	2335	657
25°	2104	969
35°	1804	1126
45°	1386	1058
55°	773	700
65°	332	337
75°	117	130
85°	37	41
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2462.7
2.5°	2460.4
5°	2449.3
7.5°	2432.6
10°	2408.1
12.5°	2374.7
15°	2334.6
17.5°	2285.6
20°	2230.0
22.5°	2168.7
25°	2104.2
27.5°	2035.1
30°	1962.8
32.5°	1886.0
35°	1803.6
37.5°	1713.4
40°	1618.8
42.5°	1511.9
45°	1386.1
47.5°	1243.6
50°	1085.5
52.5°	925.2
55°	772.6
57.5°	641.3
60°	524.4
62.5°	419.7
65°	331.8
67.5°	257.2
70°	194.8
72.5°	148.1
75°	116.9
77.5°	94.6
80°	73.5
82.5°	54.6
85°	36.7
87.5°	21.2
90°	0.0



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— 0°-180°







(END OF REPORT)