

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: P839705

Luminaire Tested: **LDS4C10D010 EU4109027 4LBSWMH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C10D010 EU4109027 4LBSWMH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

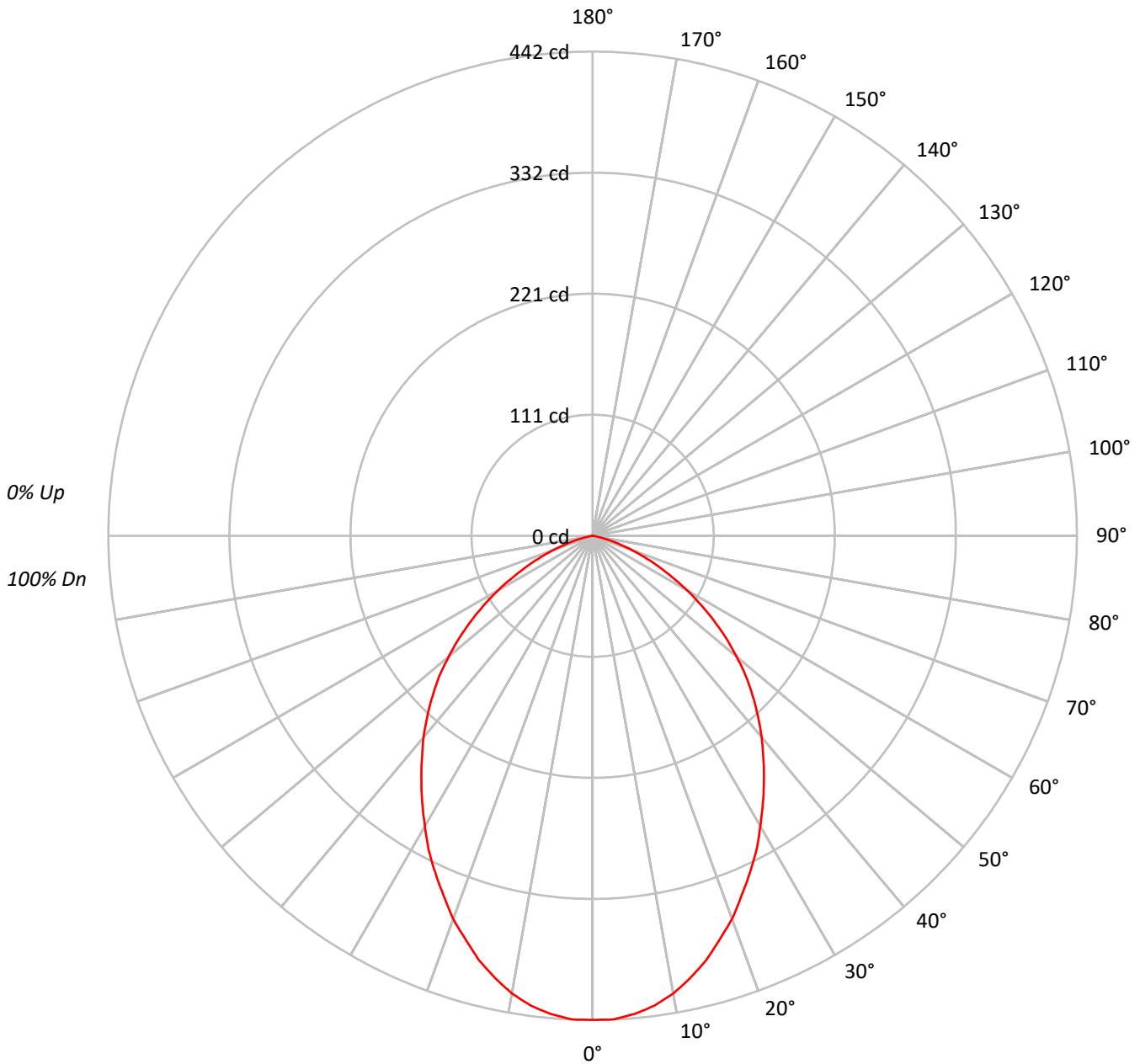
Lumens per Lamp: N/A
Luminaire Lumens: 845.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54289
5°	54040
10°	52931
15°	51002
20°	48661
25°	46034
30°	43423
35°	40884
40°	38490
45°	35878
50°	32721
55°	28894
60°	24472
65°	19215
70°	13721
75°	7500
80°	1344
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	4.9
10°-20°	112.5	13.3
20°-30°	156.3	18.5
30°-40°	170.5	20.2
40°-50°	159.0	18.8
50°-60°	120.7	14.3
60°-70°	66.1	7.8
70°-80°	18.2	2.2
80°-90°	0.3	0.0
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°	310.2	36.7
0°-40°	480.7	56.9
0°-60°	760.4	90.0
0°-90°	845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	845.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	442	
5°	438	41
15°	401	113
25°	340	156
35°	273	171
45°	206	159
55°	135	121
65°	66	66
75°	16	18
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	441.9
2.5°	441.9
5°	438.2
7.5°	432.6
10°	424.3
12.5°	413.1
15°	401.0
17.5°	386.1
20°	372.2
22.5°	355.4
25°	339.6
27.5°	323.8
30°	306.1
32.5°	289.3
35°	272.6
37.5°	255.9
40°	240.0
42.5°	223.3
45°	206.5
47.5°	189.8
50°	171.2
52.5°	153.5
55°	134.9
57.5°	117.2
60°	99.6
62.5°	81.9
65°	66.1
67.5°	51.2
70°	38.2
72.5°	26.1
75°	15.8
77.5°	7.4
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)