

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: P839655

Luminaire Tested: **LDS4C100D010 EU41009027 4LBSWMH**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839655
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: LDS4C100D010 EU41009027 4LBSWMH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

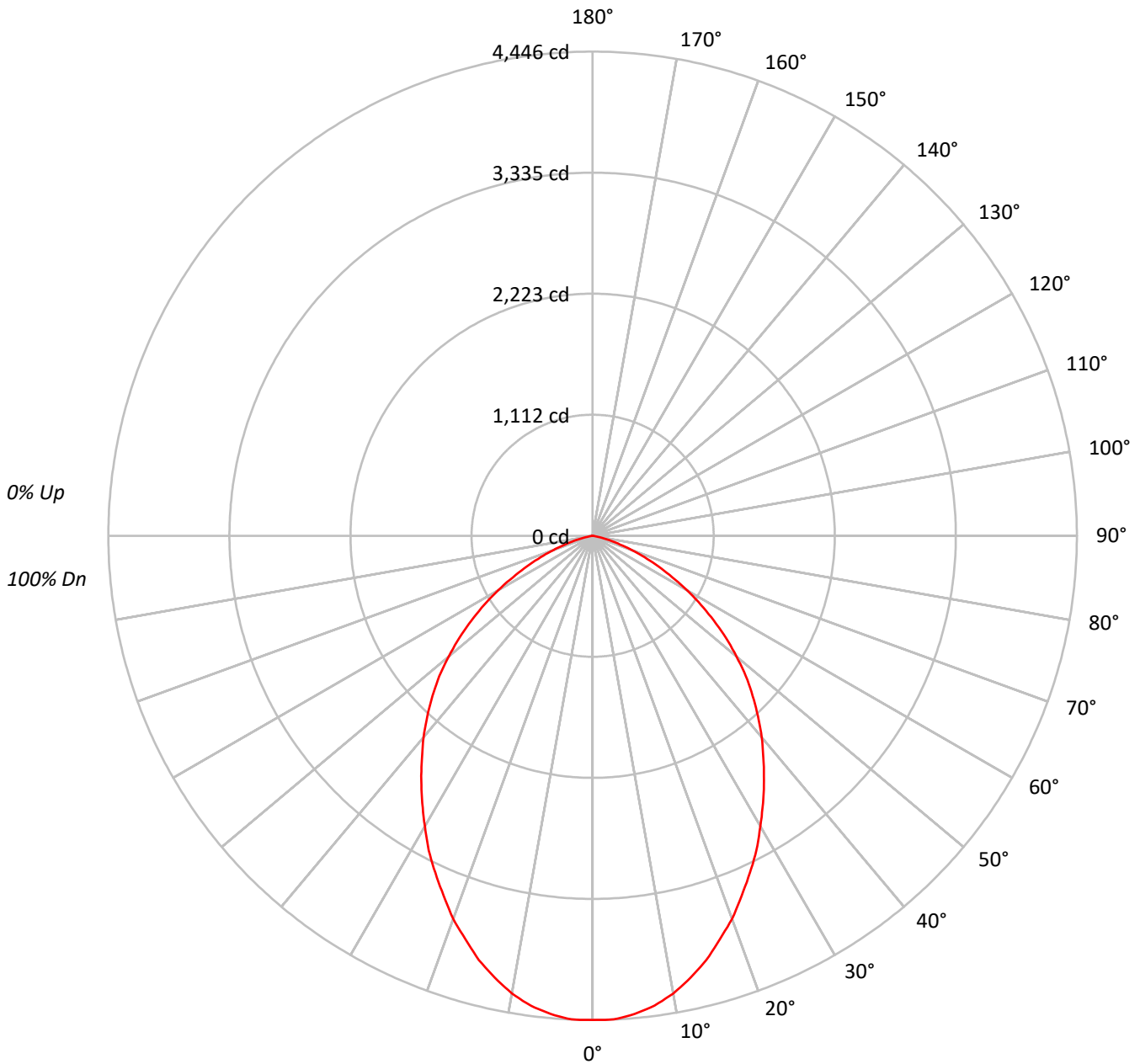
Lumens per Lamp: N/A
Luminaire Lumens: 8501.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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

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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	49	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°	546207
5°	543668
10°	532452
15°	513099
20°	489483
25°	463092
30°	436841
35°	411295
40°	387271
45°	361017
50°	329176
55°	290718
60°	246076
65°	193197
70°	137897
75°	75567
80°	13301
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.4	4.9
10°-20°	1131.9	13.3
20°-30°	1571.9	18.5
30°-40°	1715.3	20.2
40°-50°	1600.2	18.8
50°-60°	1214.6	14.3
60°-70°	665.1	7.8
70°-80°	183.0	2.2
80°-90°	2.5	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°	3120.3	36.7
0°-40°	4835.7	56.9
0°-60°	7650.4	90.0
0°-90°	8501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8501.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4446	
5°	4408	416
15°	4034	1132
25°	3416	1572
35°	2742	1715
45°	2078	1600
55°	1357	1215
65°	665	665
75°	159	183
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4446.0
2.5°	4446.0
5°	4408.5
7.5°	4352.5
10°	4268.2
12.5°	4156.0
15°	4034.2
17.5°	3884.5
20°	3744.0
22.5°	3575.5
25°	3416.3
27.5°	3257.4
30°	3079.4
32.5°	2910.9
35°	2742.4
37.5°	2574.0
40°	2414.8
42.5°	2246.3
45°	2077.9
47.5°	1909.4
50°	1722.3
52.5°	1544.3
55°	1357.3
57.5°	1179.3
60°	1001.5
62.5°	823.8
65°	664.6
67.5°	514.7
70°	383.9
72.5°	262.1
75°	159.2
77.5°	74.8
80°	18.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)