

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: P839651

Luminaire Tested: **LDS4C100D010 EU41009027 4LBSGPH**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-18)
Test Lab: INNOVATION CENTER
Issue Date: 8/24/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LDS4C100D010 EU41009027 4LBSGPH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

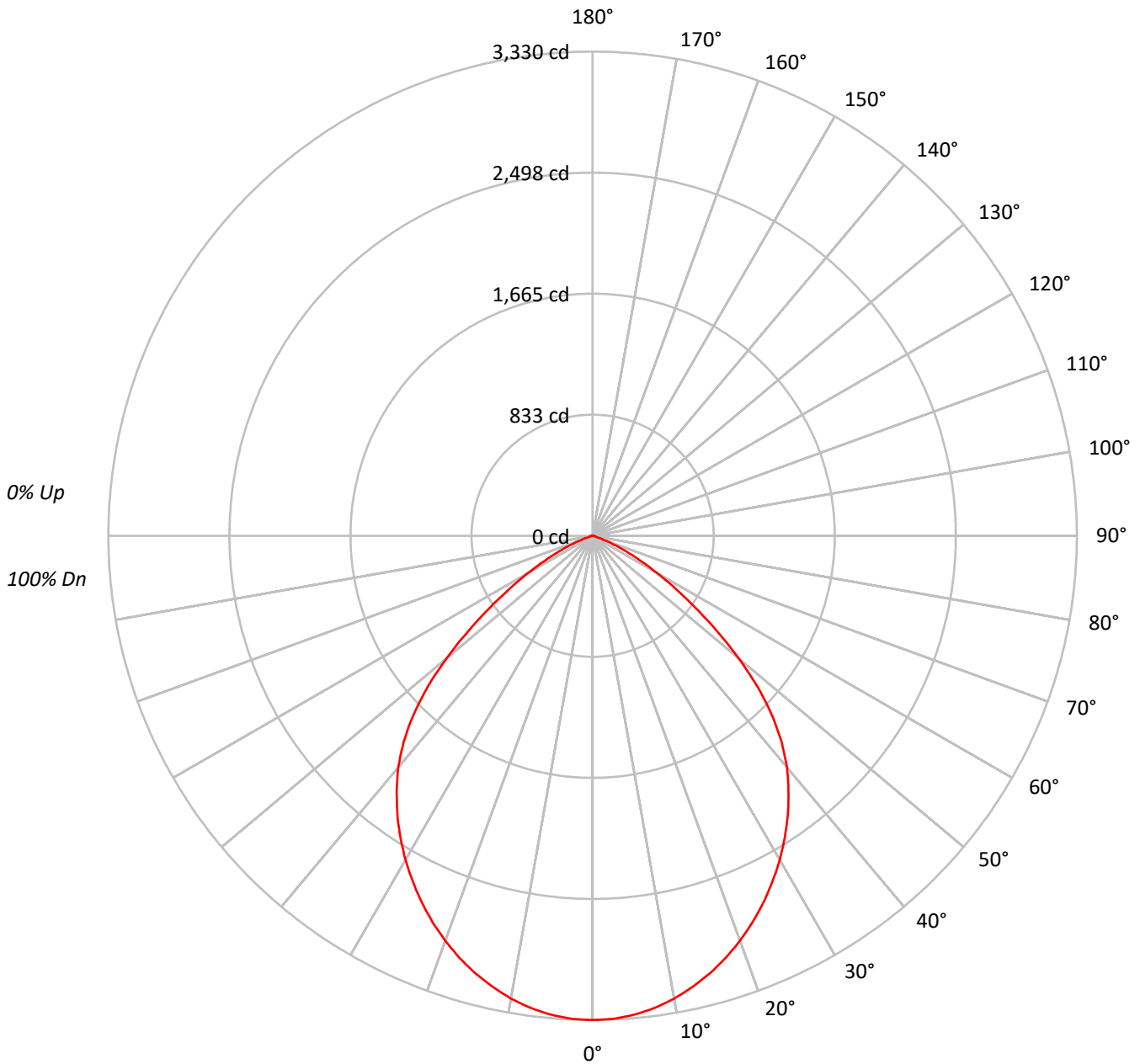
Lumens per Lamp: N/A
Luminaire Lumens: 6342.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	409114
5°	407717
10°	403238
15°	396290
20°	387416
25°	377056
30°	365173
35°	351125
40°	333401
45°	303126
50°	250260
55°	184288
60°	125065
65°	73226
70°	28951
75°	6503
80°	8490
85°	14519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.2	4.9
10°-20°	877.4	13.8
20°-30°	1279.7	20.2
30°-40°	1460.8	23.0
40°-50°	1328.0	20.9
50°-60°	783.2	12.4
60°-70°	262.7	4.1
70°-80°	27.4	0.4
80°-90°	9.6	0.2
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°	2470.3	39.0
0°-40°	3931.1	62.0
0°-60°	6042.3	95.3
0°-90°	6342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6342.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3330	
5°	3306	313
15°	3116	877
25°	2782	1280
35°	2341	1461
45°	1745	1328
55°	860	783
65°	252	263
75°	14	27
85°	10	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3330.1
2.5°	3324.9
5°	3306.1
7.5°	3275.2
10°	3232.4
12.5°	3177.5
15°	3115.8
17.5°	3043.8
20°	2963.3
22.5°	2875.9
25°	2781.6
27.5°	2678.8
30°	2574.2
32.5°	2459.4
35°	2341.2
37.5°	2212.6
40°	2078.9
42.5°	1923.0
45°	1744.7
47.5°	1539.1
50°	1309.4
52.5°	1079.7
55°	860.4
57.5°	673.6
60°	509.0
62.5°	368.5
65°	251.9
67.5°	154.2
70°	80.6
72.5°	30.8
75°	13.7
77.5°	13.7
80°	12.0
82.5°	10.3
85°	10.3
87.5°	8.6
90°	0.0



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— 0°-180°







(END OF REPORT)