

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: P839650

Luminaire Tested: **LDS4C100D010 EU41009027 4LBSB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839650
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 4LBSB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

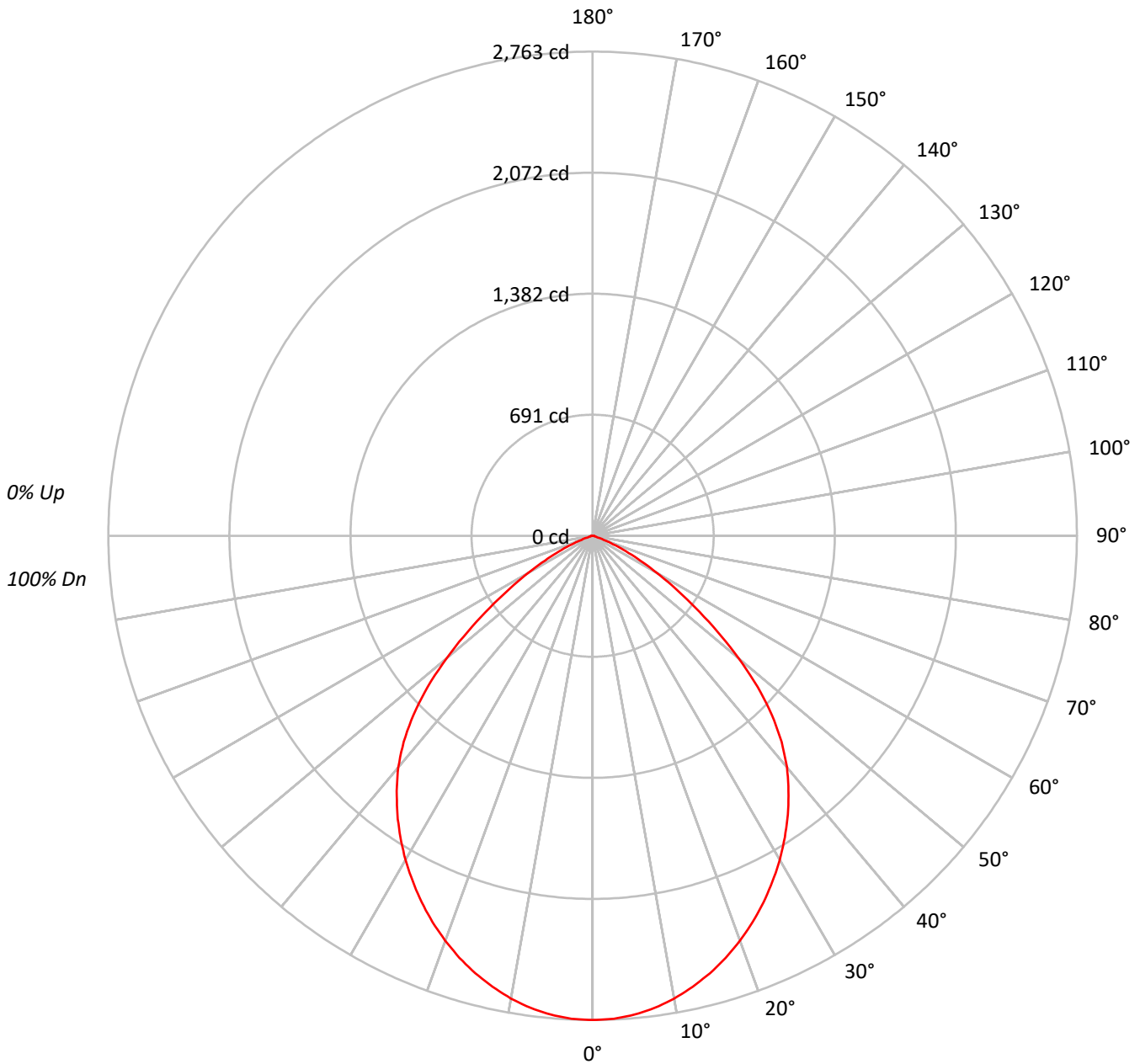
Lumens per Lamp: N/A
Luminaire Lumens: 5262.0 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	339444
5°	338287
10°	334564
15°	328805
20°	321445
25°	312845
30°	302997
35°	291329
40°	276629
45°	251508
50°	207639
55°	152909
60°	103762
65°	60755
70°	23995
75°	5411
80°	7075
85°	11981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	4.9
10°-20°	727.9	13.8
20°-30°	1061.8	20.2
30°-40°	1212.0	23.0
40°-50°	1101.8	20.9
50°-60°	649.9	12.4
60°-70°	217.9	4.1
70°-80°	22.8	0.4
80°-90°	7.9	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°	2049.7	39.0
0°-40°	3261.7	62.0
0°-60°	5013.4	95.3
0°-90°	5262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5262.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2763	
5°	2743	260
15°	2585	728
25°	2308	1062
35°	1942	1212
45°	1448	1102
55°	714	650
65°	209	218
75°	11	23
85°	8	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2763.0
2.5°	2758.7
5°	2743.1
7.5°	2717.5
10°	2681.9
12.5°	2636.4
15°	2585.2
17.5°	2525.5
20°	2458.7
22.5°	2386.1
25°	2307.9
27.5°	2222.6
30°	2135.9
32.5°	2040.6
35°	1942.5
37.5°	1835.8
40°	1724.9
42.5°	1595.5
45°	1447.6
47.5°	1277.0
50°	1086.4
52.5°	895.9
55°	713.9
57.5°	558.9
60°	422.3
62.5°	305.7
65°	209.0
67.5°	128.0
70°	66.8
72.5°	25.6
75°	11.4
77.5°	11.4
80°	10.0
82.5°	8.5
85°	8.5
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)