

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: P839652

Luminaire Tested: **LDS4C100D010 EU41009027 4LBSH**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839652
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 4LBSH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

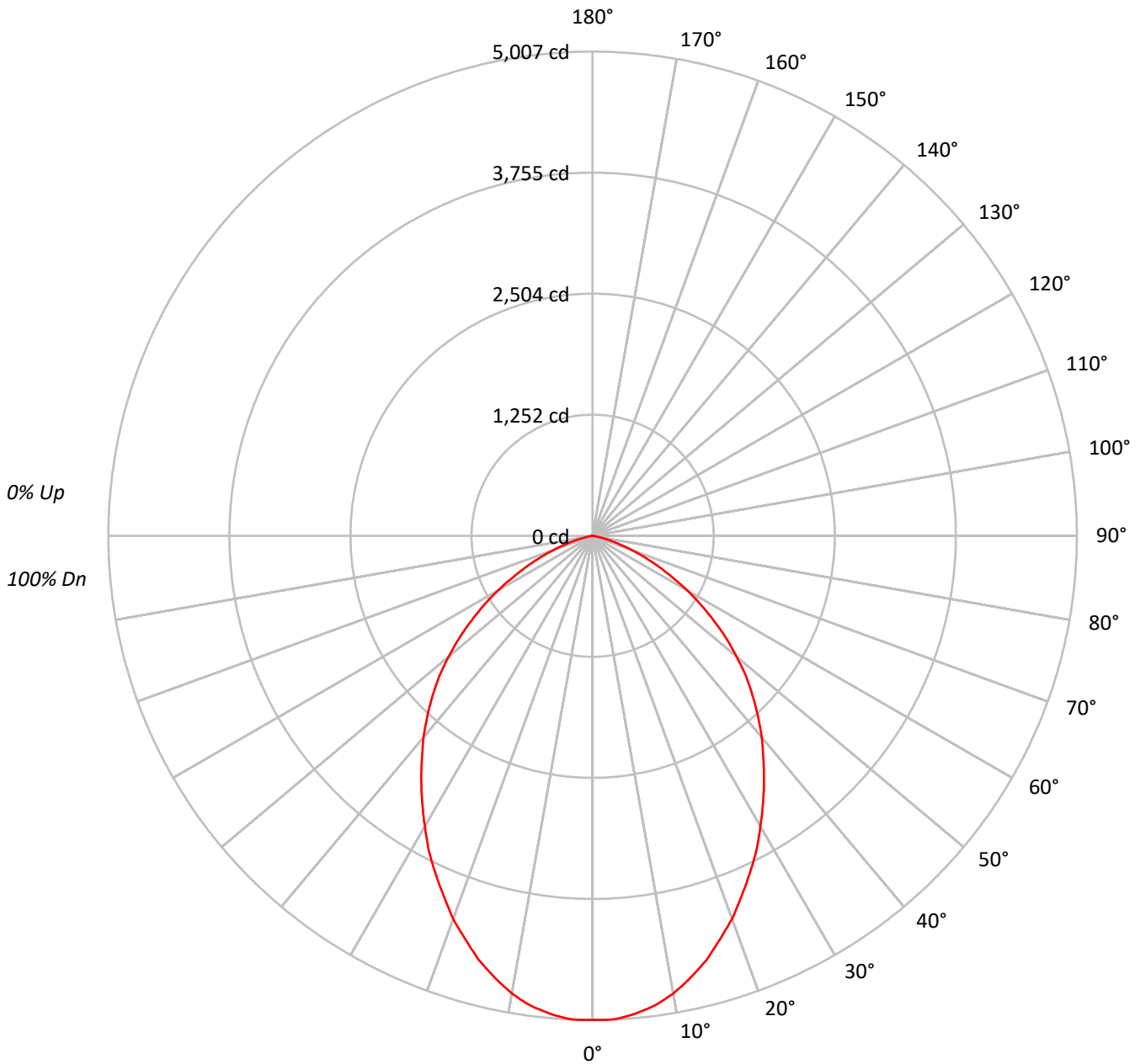
Lumens per Lamp: N/A
Luminaire Lumens: 9574.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	615140
5°	612297
10°	599654
15°	577863
20°	551257
25°	521543
30°	491981
35°	463217
40°	436153
45°	406571
50°	370727
55°	327409
60°	277133
65°	217586
70°	155282
75°	85108
80°	14999
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.0	4.9
10°-20°	1274.8	13.3
20°-30°	1770.3	18.5
30°-40°	1931.9	20.2
40°-50°	1802.1	18.8
50°-60°	1367.9	14.3
60°-70°	749.0	7.8
70°-80°	206.1	2.2
80°-90°	2.9	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°	3514.1	36.7
0°-40°	5446.0	56.9
0°-60°	8616.0	90.0
0°-90°	9574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9574.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5007	
5°	4965	469
15°	4543	1275
25°	3848	1770
35°	3089	1932
45°	2340	1802
55°	1529	1368
65°	748	749
75°	179	206
85°	0	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5007.1
2.5°	5007.1
5°	4965.0
7.5°	4901.9
10°	4806.9
12.5°	4680.5
15°	4543.4
17.5°	4374.8
20°	4216.5
22.5°	4026.8
25°	3847.5
27.5°	3668.5
30°	3468.1
32.5°	3278.3
35°	3088.6
37.5°	2898.9
40°	2719.6
42.5°	2529.9
45°	2340.1
47.5°	2150.4
50°	1939.7
52.5°	1739.3
55°	1528.6
57.5°	1328.1
60°	1127.9
62.5°	927.7
65°	748.5
67.5°	579.7
70°	432.3
72.5°	295.2
75°	179.3
77.5°	84.3
80°	21.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)