

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: P839688

Luminaire Tested: **LDS4C100D010 EU41009050 4LBPSMB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839688
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 EU41009050 4LBPSMB
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Summary

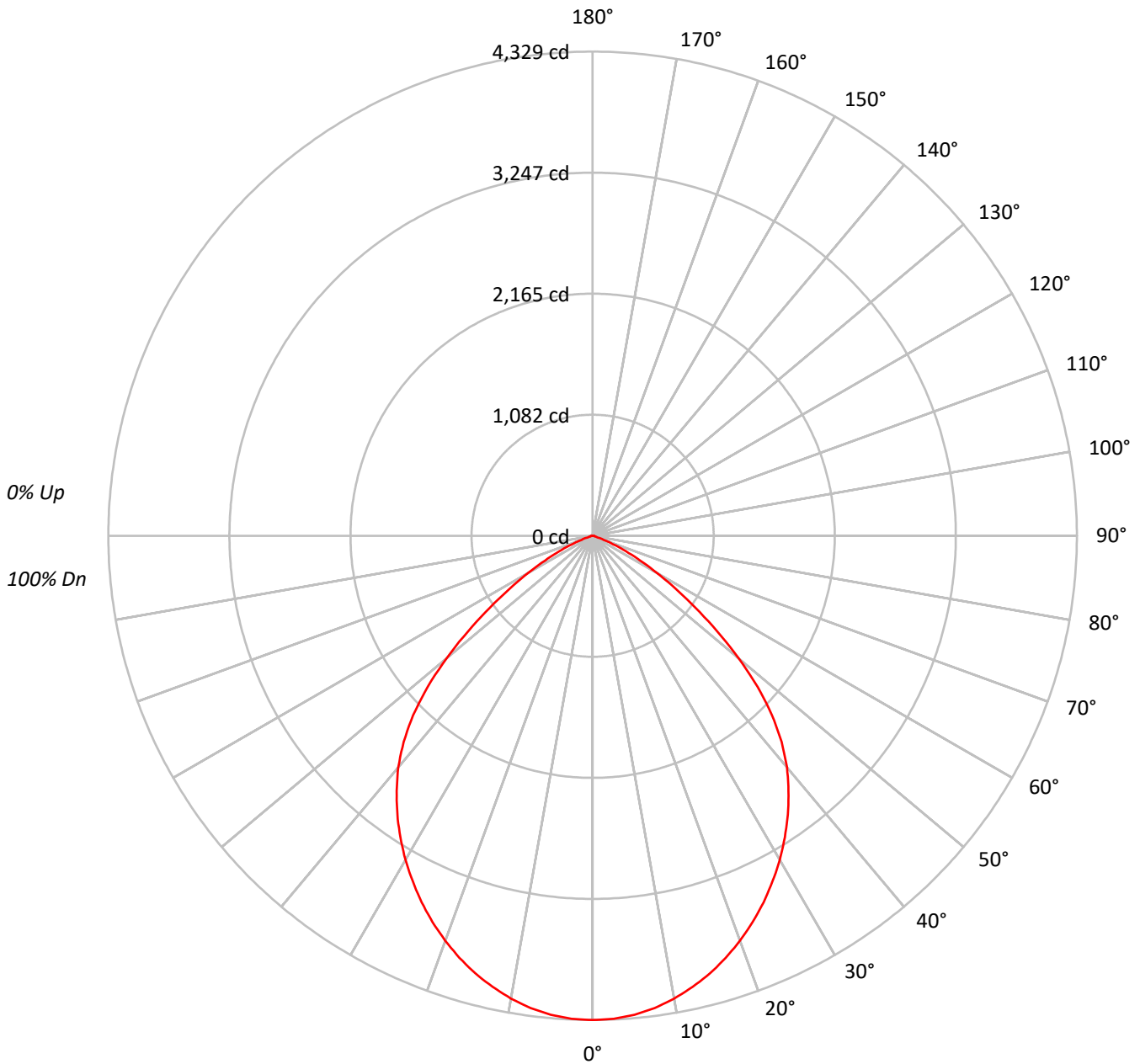
Lumens per Lamp: N/A
Luminaire Lumens: 8245.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	531870
5°	530054
10°	524231
15°	515210
20°	503668
25°	490203
30°	474759
35°	456483
40°	433442
45°	394097
50°	325354
55°	239570
60°	162609
65°	95203
70°	37608
75°	8449
80°	11037
85°	18888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	4.9
10°-20°	1140.6	13.8
20°-30°	1663.7	20.2
30°-40°	1899.1	23.0
40°-50°	1726.5	20.9
50°-60°	1018.3	12.3
60°-70°	341.5	4.1
70°-80°	35.6	0.4
80°-90°	12.5	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°	3211.6	39.0
0°-40°	5110.7	62.0
0°-60°	7855.4	95.3
0°-90°	8245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8245.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4329	
5°	4298	407
15°	4051	1141
25°	3616	1664
35°	3044	1899
45°	2268	1726
55°	1118	1018
65°	328	341
75°	18	36
85°	13	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4329.3
2.5°	4322.6
5°	4298.1
7.5°	4258.0
10°	4202.3
12.5°	4131.0
15°	4050.8
17.5°	3957.2
20°	3852.5
22.5°	3738.8
25°	3616.3
27.5°	3482.6
30°	3346.7
32.5°	3197.4
35°	3043.7
37.5°	2876.5
40°	2702.7
42.5°	2500.0
45°	2268.3
47.5°	2000.9
50°	1702.3
52.5°	1403.7
55°	1118.5
57.5°	875.7
60°	661.8
62.5°	479.1
65°	327.5
67.5°	200.5
70°	104.7
72.5°	40.1
75°	17.8
77.5°	17.8
80°	15.6
82.5°	13.4
85°	13.4
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)