

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: P839687

Luminaire Tested: **LDS4C100D010 EU41009050 4LBCSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839687
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 4LBCSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

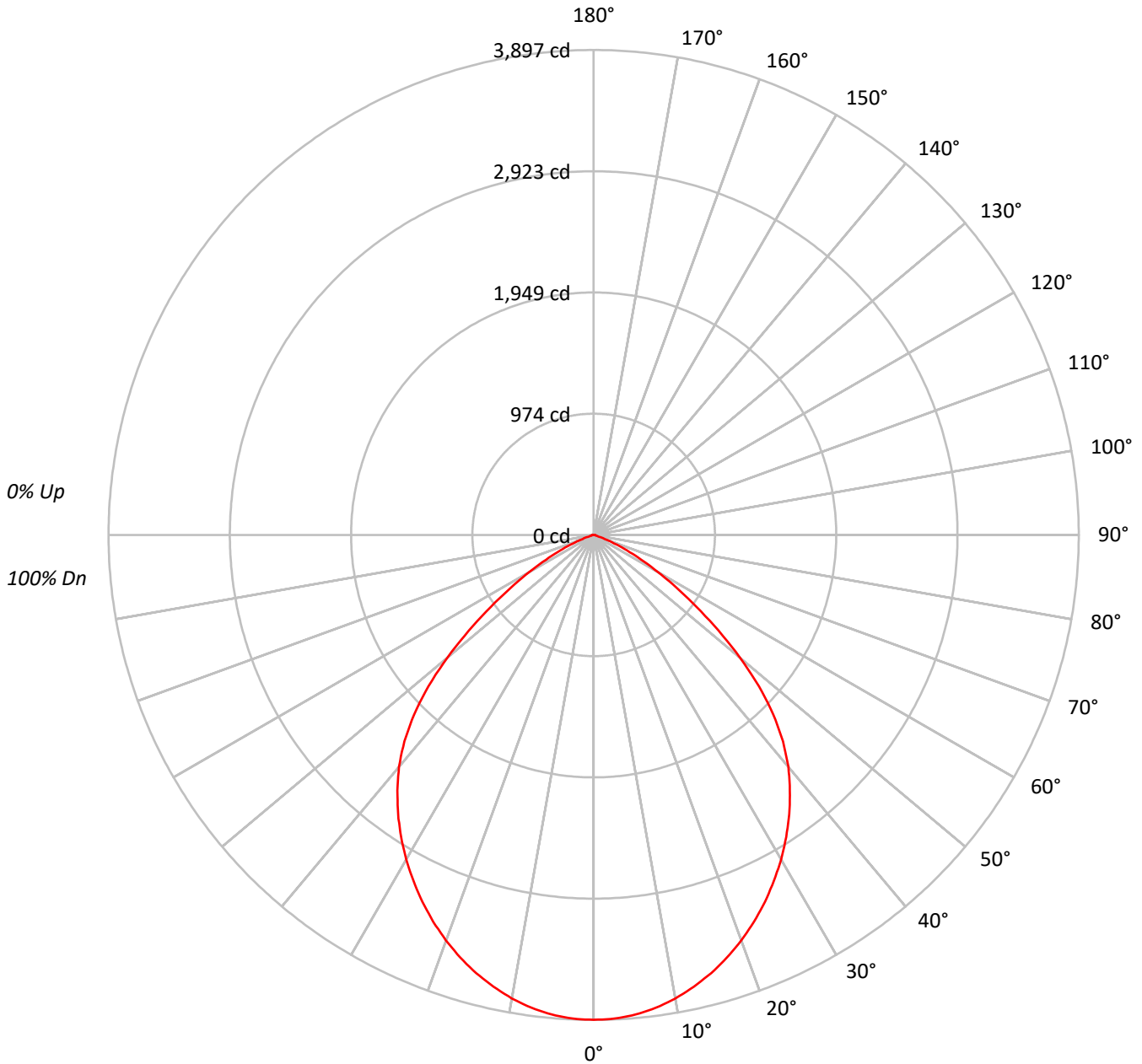
Lumens per Lamp: N/A
Luminaire Lumens: 7421.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	478711
5°	477086
10°	471837
15°	463712
20°	453334
25°	441214
30°	427308
35°	410860
40°	390125
45°	354710
50°	292843
55°	215624
60°	146343
65°	85697
70°	33873
75°	7595
80°	9905
85°	16915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	4.9
10°-20°	1026.6	13.8
20°-30°	1497.5	20.2
30°-40°	1709.3	23.0
40°-50°	1553.9	20.9
50°-60°	916.5	12.3
60°-70°	307.4	4.1
70°-80°	32.1	0.4
80°-90°	11.2	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°	2890.6	39.0
0°-40°	4599.9	62.0
0°-60°	7070.3	95.3
0°-90°	7421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7421.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3897	
5°	3869	367
15°	3646	1027
25°	3255	1497
35°	2740	1709
45°	2042	1554
55°	1007	916
65°	295	307
75°	16	32
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3896.6
2.5°	3890.6
5°	3868.6
7.5°	3832.5
10°	3782.3
12.5°	3718.1
15°	3645.9
17.5°	3561.7
20°	3467.5
22.5°	3365.2
25°	3254.9
27.5°	3134.6
30°	3012.2
32.5°	2877.9
35°	2739.5
37.5°	2589.1
40°	2432.6
42.5°	2250.1
45°	2041.6
47.5°	1800.9
50°	1532.2
52.5°	1263.4
55°	1006.7
57.5°	788.2
60°	595.6
62.5°	431.2
65°	294.8
67.5°	180.5
70°	94.3
72.5°	36.1
75°	16.0
77.5°	16.0
80°	14.0
82.5°	12.0
85°	12.0
87.5°	10.0
90°	0.0



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— 0°-180°







(END OF REPORT)