

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: P839689

Luminaire Tested: **LDS4C100D010 EU41009050 4LBPSMMS**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839689
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 4LBPSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBPS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

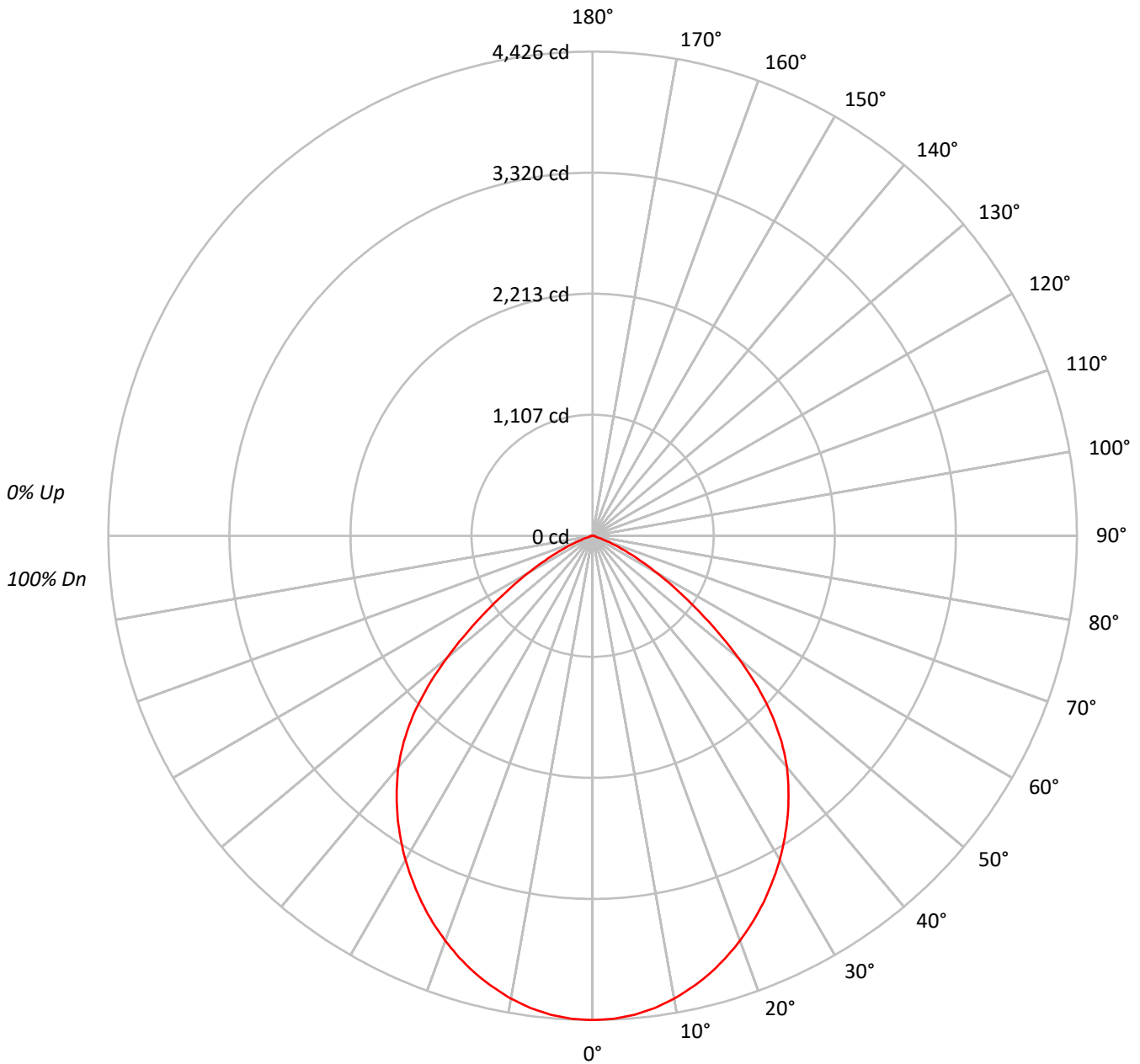
Lumens per Lamp: N/A
Luminaire Lumens: 8430.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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°	543799
5°	541942
10°	535995
15°	526772
20°	514964
25°	501197
30°	485413
35°	466712
40°	443177
45°	402940
50°	332655
55°	244946
60°	166245
65°	97354
70°	38470
75°	8639
80°	11249
85°	19311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.4	4.9
10°-20°	1166.2	13.8
20°-30°	1701.1	20.2
30°-40°	1941.7	23.0
40°-50°	1765.2	20.9
50°-60°	1041.1	12.3
60°-70°	349.2	4.1
70°-80°	36.4	0.4
80°-90°	12.7	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°	3283.7	39.0
0°-40°	5225.3	62.0
0°-60°	8031.6	95.3
0°-90°	8430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8430.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4426	
5°	4394	416
15°	4142	1166
25°	3697	1701
35°	3112	1942
45°	2319	1765
55°	1144	1041
65°	335	349
75°	18	36
85°	14	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4426.4
2.5°	4419.6
5°	4394.5
7.5°	4353.5
10°	4296.6
12.5°	4223.7
15°	4141.7
17.5°	4046.0
20°	3938.9
22.5°	3822.7
25°	3697.4
27.5°	3560.7
30°	3421.8
32.5°	3269.1
35°	3111.9
37.5°	2941.1
40°	2763.4
42.5°	2556.1
45°	2319.2
47.5°	2045.8
50°	1740.5
52.5°	1435.2
55°	1143.6
57.5°	895.3
60°	676.6
62.5°	489.8
65°	334.9
67.5°	205.0
70°	107.1
72.5°	41.0
75°	18.2
77.5°	18.2
80°	15.9
82.5°	13.7
85°	13.7
87.5°	11.4
90°	0.0



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— 0°-180°







(END OF REPORT)