

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: P839647

Luminaire Tested: **LDS4C100D010 EU41009027 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839647
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 4LBCSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

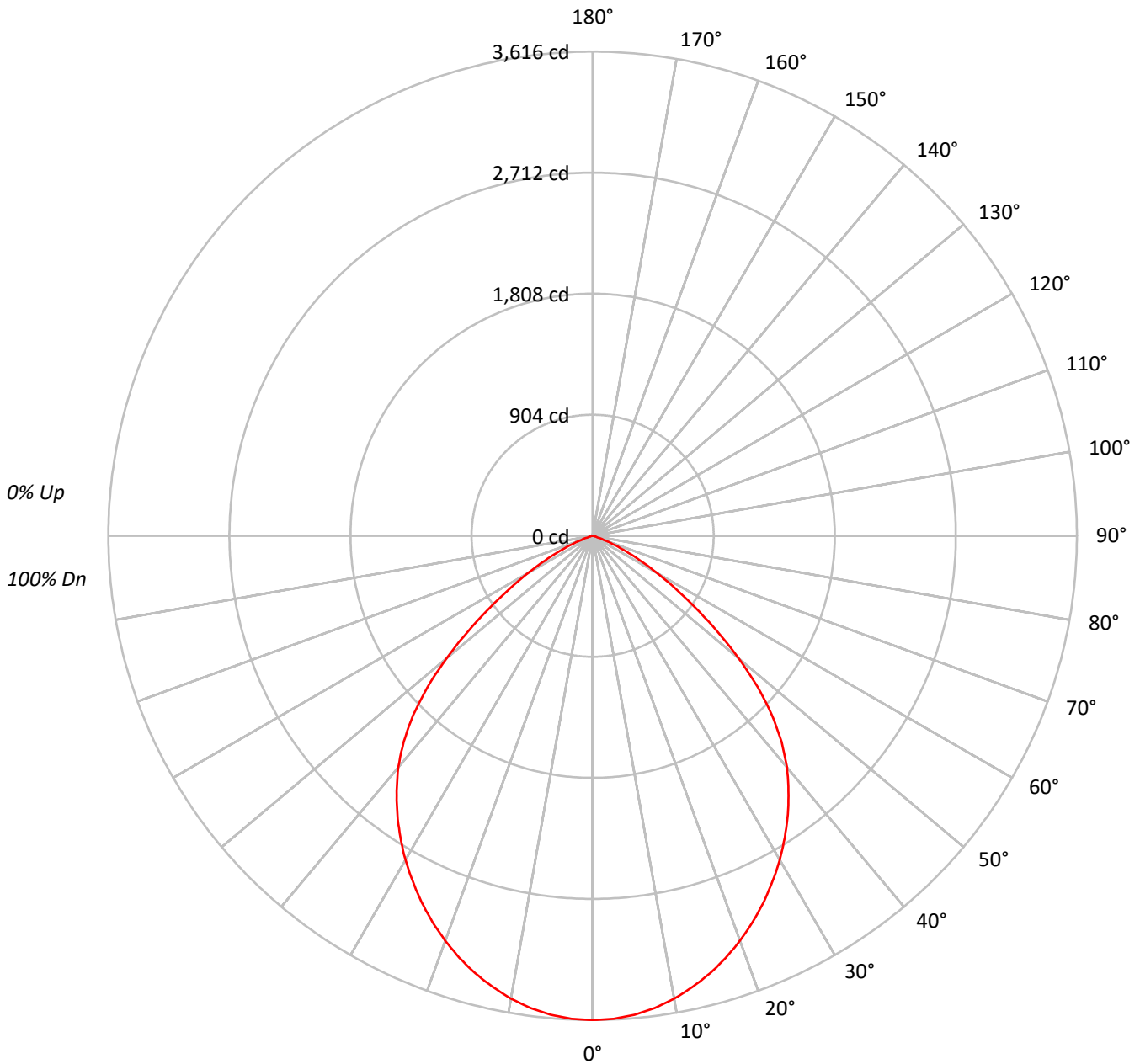
Lumens per Lamp: N/A
Luminaire Lumens: 6887.0 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	444263
5°	442753
10°	437893
15°	430351
20°	420702
25°	409467
30°	396567
35°	381285
40°	362060
45°	329187
50°	271762
55°	200116
60°	135827
65°	79534
70°	31430
75°	7073
80°	9197
85°	15787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	4.9
10°-20°	952.8	13.8
20°-30°	1389.7	20.2
30°-40°	1586.3	23.0
40°-50°	1442.1	20.9
50°-60°	850.5	12.3
60°-70°	285.2	4.1
70°-80°	29.8	0.4
80°-90°	10.4	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°	2682.6	39.0
0°-40°	4268.9	62.0
0°-60°	6561.6	95.3
0°-90°	6887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6887.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3616	
5°	3590	340
15°	3384	953
25°	3021	1390
35°	2542	1586
45°	1895	1442
55°	934	851
65°	274	285
75°	15	30
85°	11	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3616.2
2.5°	3610.7
5°	3590.2
7.5°	3556.7
10°	3510.2
12.5°	3450.6
15°	3383.6
17.5°	3305.4
20°	3217.9
22.5°	3123.0
25°	3020.7
27.5°	2909.0
30°	2795.5
32.5°	2670.8
35°	2542.3
37.5°	2402.8
40°	2257.6
42.5°	2088.2
45°	1894.7
47.5°	1671.3
50°	1421.9
52.5°	1172.5
55°	934.3
57.5°	731.4
60°	552.8
62.5°	400.1
65°	273.6
67.5°	167.5
70°	87.5
72.5°	33.5
75°	14.9
77.5°	14.9
80°	13.0
82.5°	11.2
85°	11.2
87.5°	9.3
90°	0.0



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— 0°-180°







(END OF REPORT)