

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: P839657

Luminaire Tested: **LDS4C100D010 EU41009030 4LBCSMMS**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839657
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 EU41009030 4LBCSMMS
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBCS TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Summary

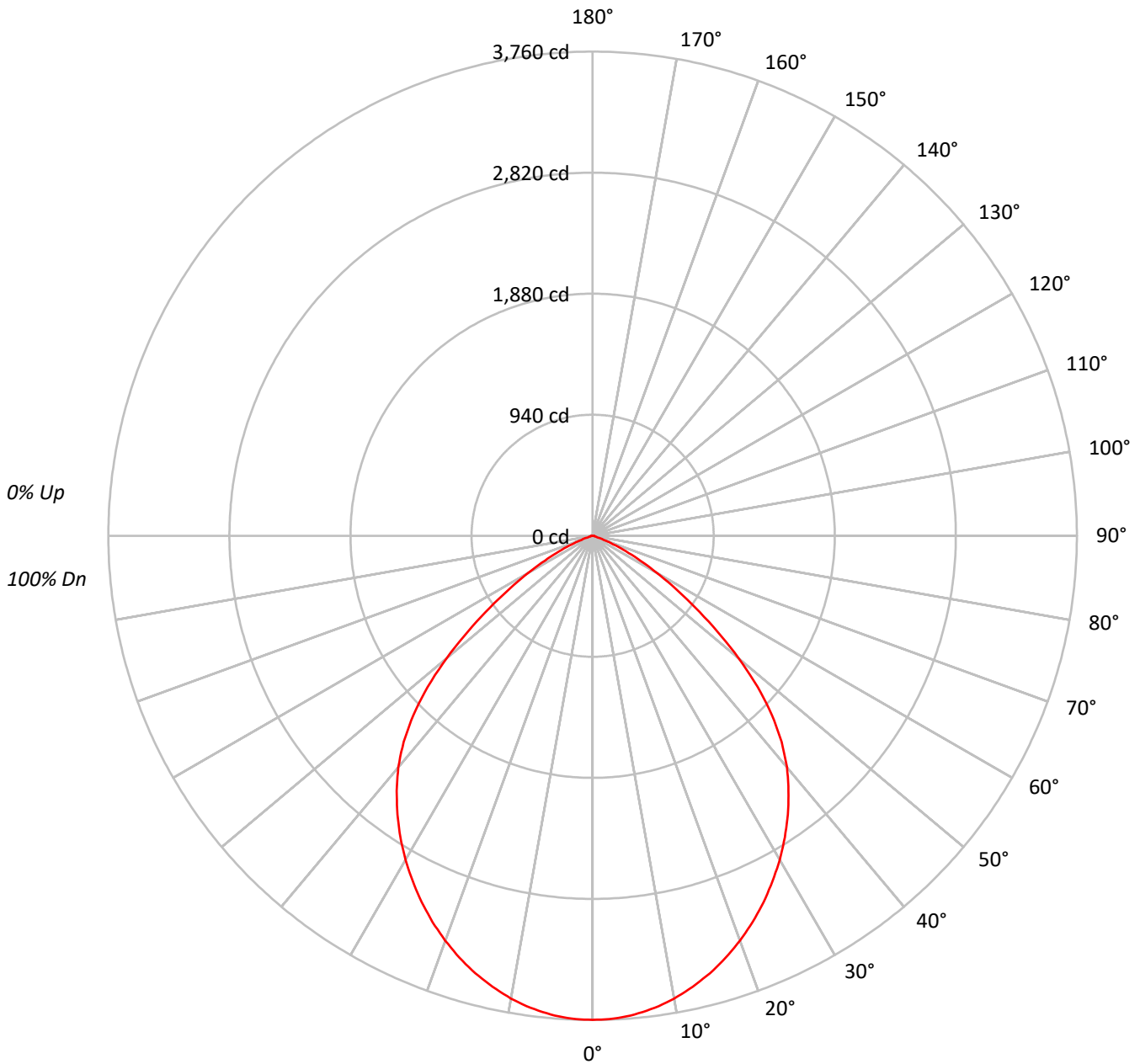
Lumens per Lamp: N/A
Luminaire Lumens: 7160.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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			
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°	461880
5°	460302
10°	455245
15°	447407
20°	437384
25°	425693
30°	412285
35°	396403
40°	376413
45°	342235
50°	282542
55°	208041
60°	141208
65°	82674
70°	32651
75°	7357
80°	9551
85°	16351



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	4.9
10°-20°	990.5	13.8
20°-30°	1444.8	20.2
30°-40°	1649.2	23.0
40°-50°	1499.3	20.9
50°-60°	884.2	12.3
60°-70°	296.5	4.1
70°-80°	31.0	0.4
80°-90°	10.8	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°	2789.0	39.0
0°-40°	4438.1	62.0
0°-60°	6821.7	95.3
0°-90°	7160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7160.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3760	
5°	3732	354
15°	3518	991
25°	3140	1445
35°	2643	1649
45°	1970	1499
55°	971	884
65°	284	297
75°	16	31
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3759.6
2.5°	3753.8
5°	3732.5
7.5°	3697.7
10°	3649.3
12.5°	3587.4
15°	3517.7
17.5°	3436.4
20°	3345.5
22.5°	3246.8
25°	3140.4
27.5°	3024.3
30°	2906.3
32.5°	2776.6
35°	2643.1
37.5°	2498.0
40°	2347.1
42.5°	2171.0
45°	1969.8
47.5°	1737.6
50°	1478.3
52.5°	1219.0
55°	971.3
57.5°	760.4
60°	574.7
62.5°	416.0
65°	284.4
67.5°	174.1
70°	90.9
72.5°	34.8
75°	15.5
77.5°	15.5
80°	13.5
82.5°	11.6
85°	11.6
87.5°	9.7
90°	0.0



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— 0°-180°







(END OF REPORT)