

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: P840463

Luminaire Tested: **LDS4C90D010 EU4909035 4LBPSSQMMS**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P840463
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: LDS4C90D010 EU4909035 4LBPSSQMMS
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

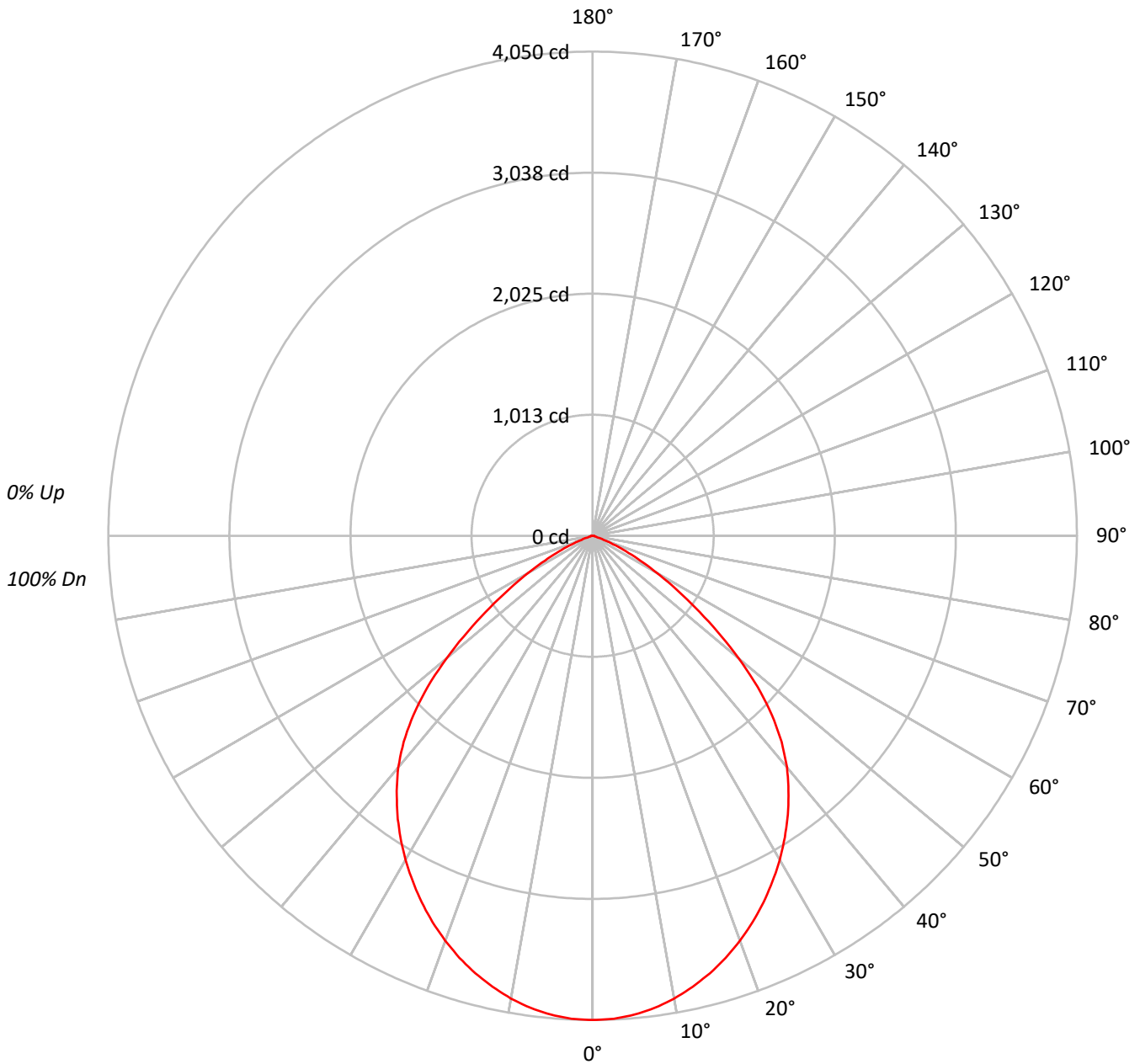
Lumens per Lamp: N/A
Luminaire Lumens: 7713.1 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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°	390780
5°	389444
10°	385159
15°	378533
20°	370053
25°	360167
30°	348809
35°	335387
40°	318470
45°	289546
50°	239050
55°	176029
60°	119473
65°	69955
70°	27647
75°	6226
80°	8113
85°	13839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	4.9
10°-20°	1067.0	13.8
20°-30°	1556.4	20.2
30°-40°	1776.5	23.0
40°-50°	1615.1	20.9
50°-60°	952.6	12.4
60°-70°	319.5	4.1
70°-80°	33.4	0.4
80°-90°	11.6	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°	3004.4	39.0
0°-40°	4780.9	62.0
0°-60°	7348.6	95.3
0°-90°	7713.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7713.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4050	
5°	4021	381
15°	3789	1067
25°	3383	1556
35°	2847	1777
45°	2122	1615
55°	1046	953
65°	306	319
75°	17	33
85°	12	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4050.0
2.5°	4043.7
5°	4020.8
7.5°	3983.3
10°	3931.1
12.5°	3864.4
15°	3789.4
17.5°	3701.9
20°	3603.9
22.5°	3497.6
25°	3383.0
27.5°	3257.9
30°	3130.7
32.5°	2991.1
35°	2847.3
37.5°	2690.9
40°	2528.4
42.5°	2338.7
45°	2121.9
47.5°	1871.8
50°	1592.5
52.5°	1313.2
55°	1046.4
57.5°	819.2
60°	619.1
62.5°	448.1
65°	306.4
67.5°	187.6
70°	98.0
72.5°	37.5
75°	16.7
77.5°	16.7
80°	14.6
82.5°	12.5
85°	12.5
87.5°	10.4
90°	0.0



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— 0°-180°







(END OF REPORT)