

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: P840466

Luminaire Tested: **LDS4C90D010 EU4909050 4LBPSSQMB**

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: P840466
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 EU4909050 4LBSSQMB
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSSQ TRIM WITH MB FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

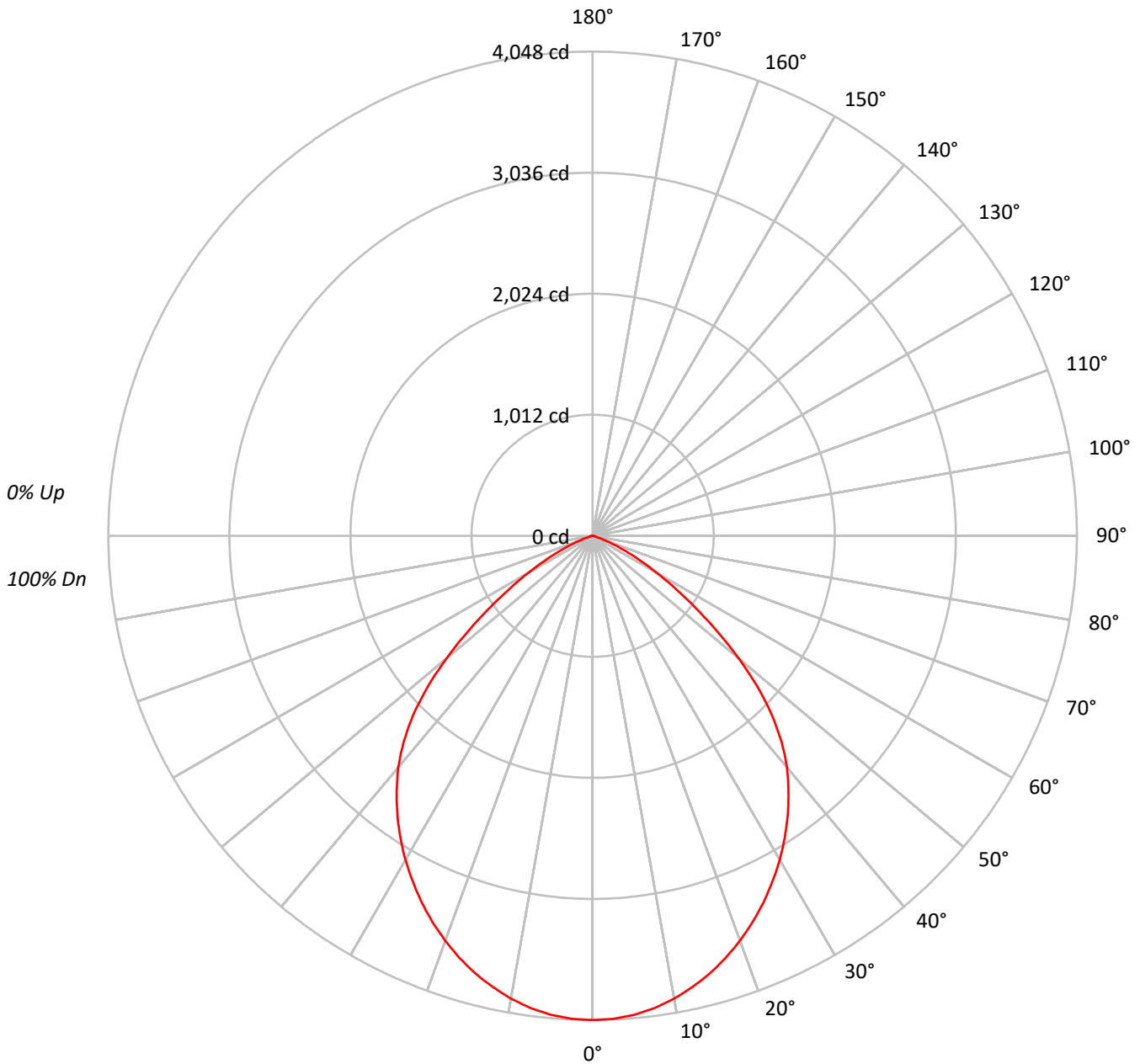
Lumens per Lamp: N/A
Luminaire Lumens: 7710.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	390626
5°	389290
10°	385012
15°	378383
20°	369910
25°	360018
30°	348676
35°	335257
40°	318344
45°	289437
50°	238945
55°	175962
60°	119415
65°	69932
70°	27619
75°	6226
80°	8113
85°	13839



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.8	4.9
10°-20°	1066.6	13.8
20°-30°	1555.8	20.2
30°-40°	1775.9	23.0
40°-50°	1614.4	20.9
50°-60°	952.2	12.3
60°-70°	319.3	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°	3003.2	39.0
0°-40°	4779.0	62.0
0°-60°	7345.6	95.3
0°-90°	7710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7710.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4048	
5°	4019	381
15°	3788	1067
25°	3382	1556
35°	2846	1776
45°	2121	1614
55°	1046	952
65°	306	319
75°	17	33
85°	12	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4048.4
2.5°	4042.1
5°	4019.2
7.5°	3981.7
10°	3929.6
12.5°	3862.9
15°	3787.9
17.5°	3700.4
20°	3602.5
22.5°	3496.2
25°	3381.6
27.5°	3256.6
30°	3129.5
32.5°	2989.9
35°	2846.2
37.5°	2689.9
40°	2527.4
42.5°	2337.8
45°	2121.1
47.5°	1871.0
50°	1591.8
52.5°	1312.6
55°	1046.0
57.5°	818.8
60°	618.8
62.5°	448.0
65°	306.3
67.5°	187.5
70°	97.9
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)