

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: P840461

Luminaire Tested: **LDS4C90D010 EU4909030 4LPSSQMMS**

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: P840461
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 EU4909030 4LBPSSQMMS
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

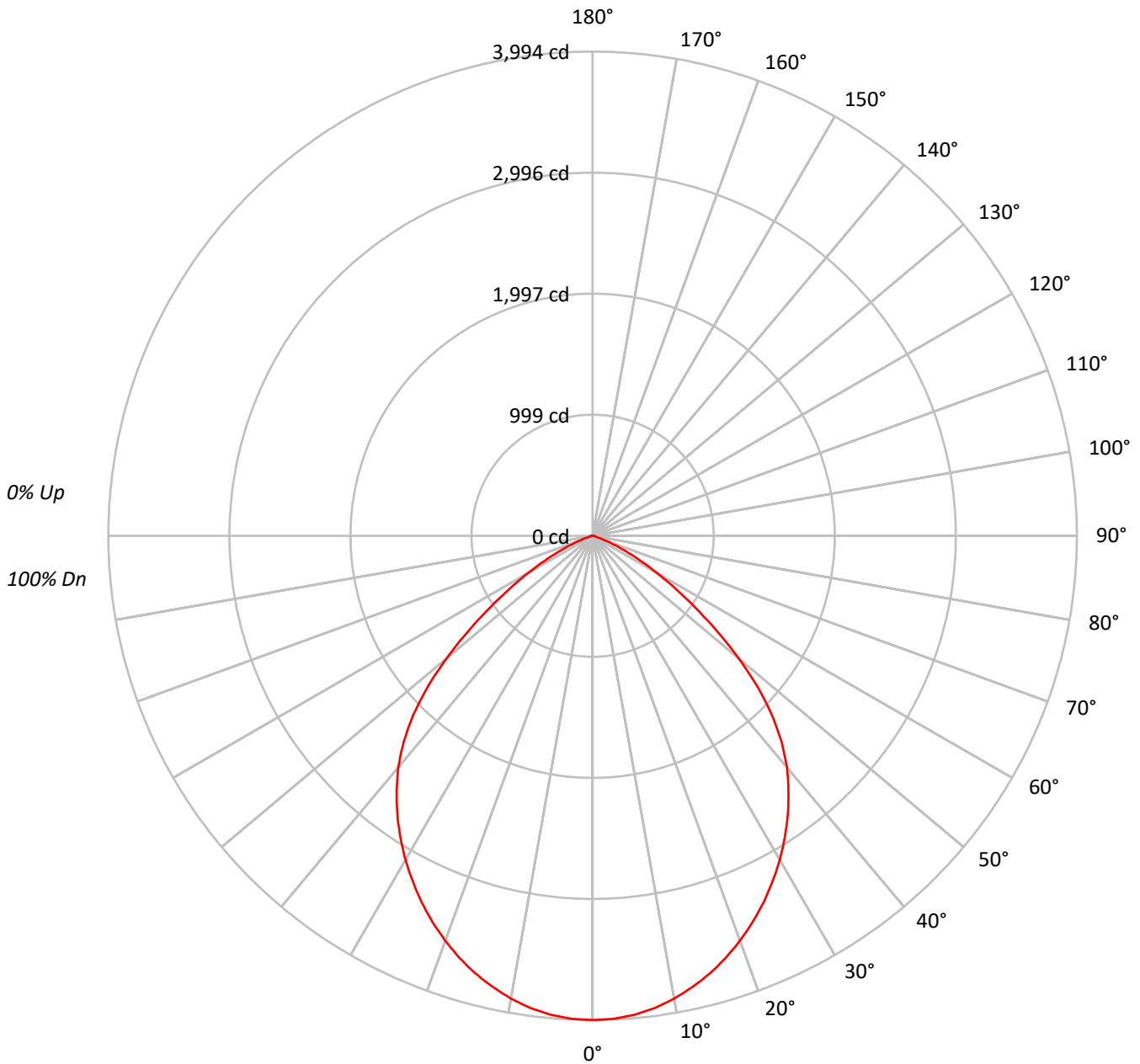
Lumens per Lamp: N/A
Luminaire Lumens: 7607.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	100	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	385406
5°	384088
10°	379868
15°	373329
20°	364971
25°	355216
30°	344018
35°	330769
40°	314087
45°	285561
50°	235763
55°	173606
60°	117832
65°	68996
70°	27252
75°	6114
80°	8001
85°	13617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	4.9
10°-20°	1052.4	13.8
20°-30°	1535.0	20.2
30°-40°	1752.1	23.0
40°-50°	1592.9	20.9
50°-60°	939.5	12.4
60°-70°	315.1	4.1
70°-80°	32.9	0.4
80°-90°	11.5	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°	2963.1	39.0
0°-40°	4715.2	62.0
0°-60°	7247.6	95.3
0°-90°	7607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7607.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3994	
5°	3966	376
15°	3737	1052
25°	3336	1535
35°	2808	1752
45°	2093	1593
55°	1032	939
65°	302	315
75°	16	33
85°	12	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3994.3
2.5°	3988.1
5°	3965.5
7.5°	3928.5
10°	3877.1
12.5°	3811.3
15°	3737.3
17.5°	3651.0
20°	3554.4
22.5°	3449.5
25°	3336.5
27.5°	3213.1
30°	3087.7
32.5°	2950.0
35°	2808.1
37.5°	2654.0
40°	2493.6
42.5°	2306.5
45°	2092.7
47.5°	1846.1
50°	1570.6
52.5°	1295.1
55°	1032.0
57.5°	807.9
60°	610.6
62.5°	442.0
65°	302.2
67.5°	185.0
70°	96.6
72.5°	37.0
75°	16.4
77.5°	16.4
80°	14.4
82.5°	12.3
85°	12.3
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)