

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: P840391

Luminaire Tested: **LDS4C50D010 EU4509030 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: P840391
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: LDS4C50D010 EU4509030 4LBPSSQMMS
Description: 4 INCH 5000 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

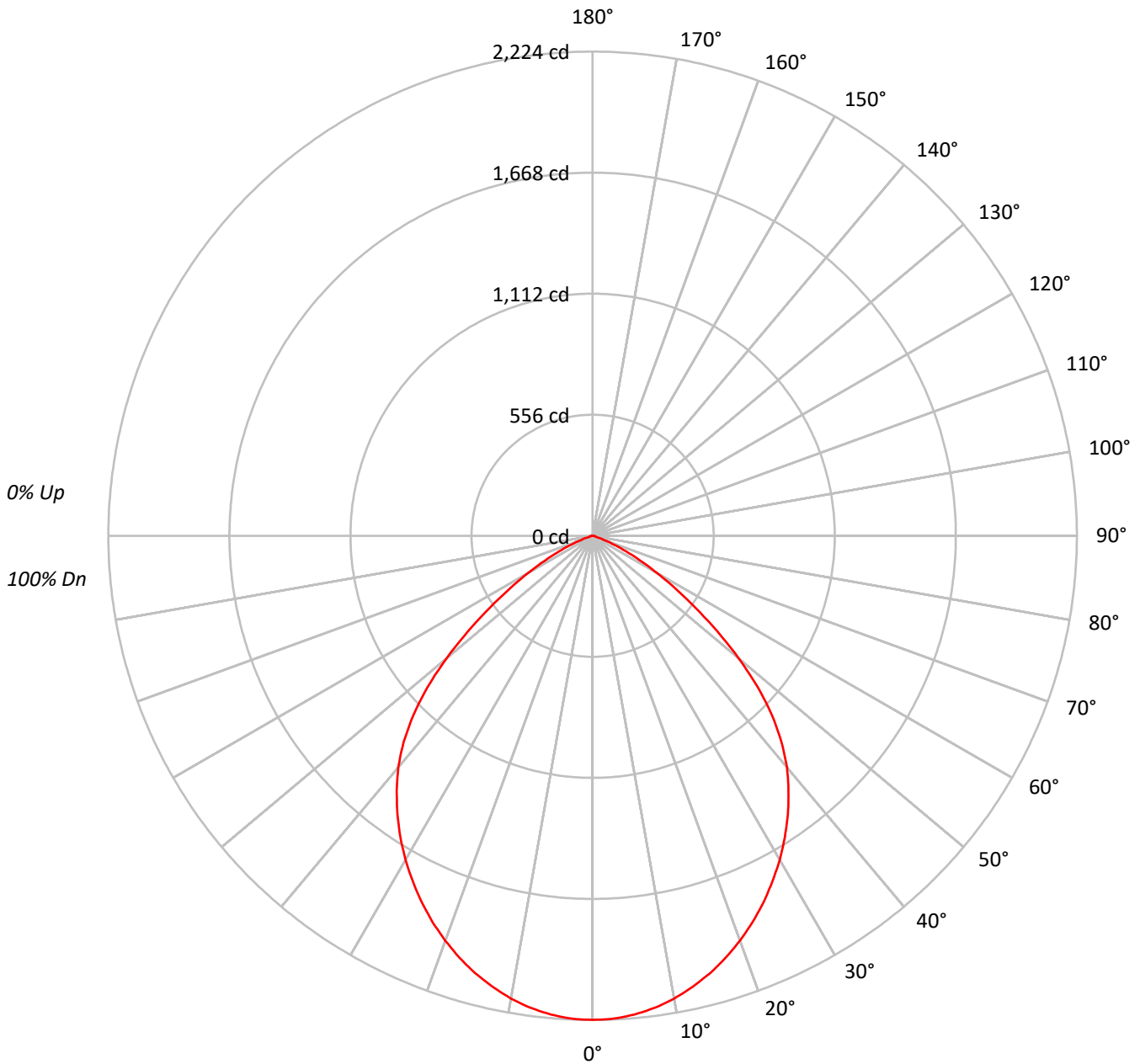
Lumens per Lamp: N/A
Luminaire Lumens: 4235.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	214562
5°	213832
10°	211484
15°	207847
20°	203186
25°	197756
30°	191524
35°	184155
40°	174867
45°	158985
50°	131256
55°	96644
60°	65593
65°	38402
70°	15178
75°	3430
80°	4445
85°	7639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	4.9
10°-20°	585.9	13.8
20°-30°	854.6	20.2
30°-40°	975.5	23.0
40°-50°	886.8	20.9
50°-60°	523.0	12.3
60°-70°	175.4	4.1
70°-80°	18.3	0.4
80°-90°	6.4	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°	1649.6	39.0
0°-40°	2625.1	62.0
0°-60°	4034.9	95.3
0°-90°	4235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2224	
5°	2208	209
15°	2081	586
25°	1858	855
35°	1563	975
45°	1165	887
55°	574	523
65°	168	175
75°	9	18
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2223.7
2.5°	2220.3
5°	2207.7
7.5°	2187.1
10°	2158.5
12.5°	2121.9
15°	2080.7
17.5°	2032.6
20°	1978.8
22.5°	1920.4
25°	1857.5
27.5°	1788.8
30°	1719.0
32.5°	1642.3
35°	1563.4
37.5°	1477.5
40°	1388.3
42.5°	1284.1
45°	1165.1
47.5°	1027.7
50°	874.4
52.5°	721.0
55°	574.5
57.5°	449.8
60°	339.9
62.5°	246.1
65°	168.2
67.5°	103.0
70°	53.8
72.5°	20.6
75°	9.2
77.5°	9.2
80°	8.0
82.5°	6.9
85°	6.9
87.5°	5.7
90°	0.0



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— 0°-180°







(END OF REPORT)