

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: P840389

Luminaire Tested: **LDS4C50D010 EU4509027 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: P840389
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 EU4509027 4LBPSSQMMS
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

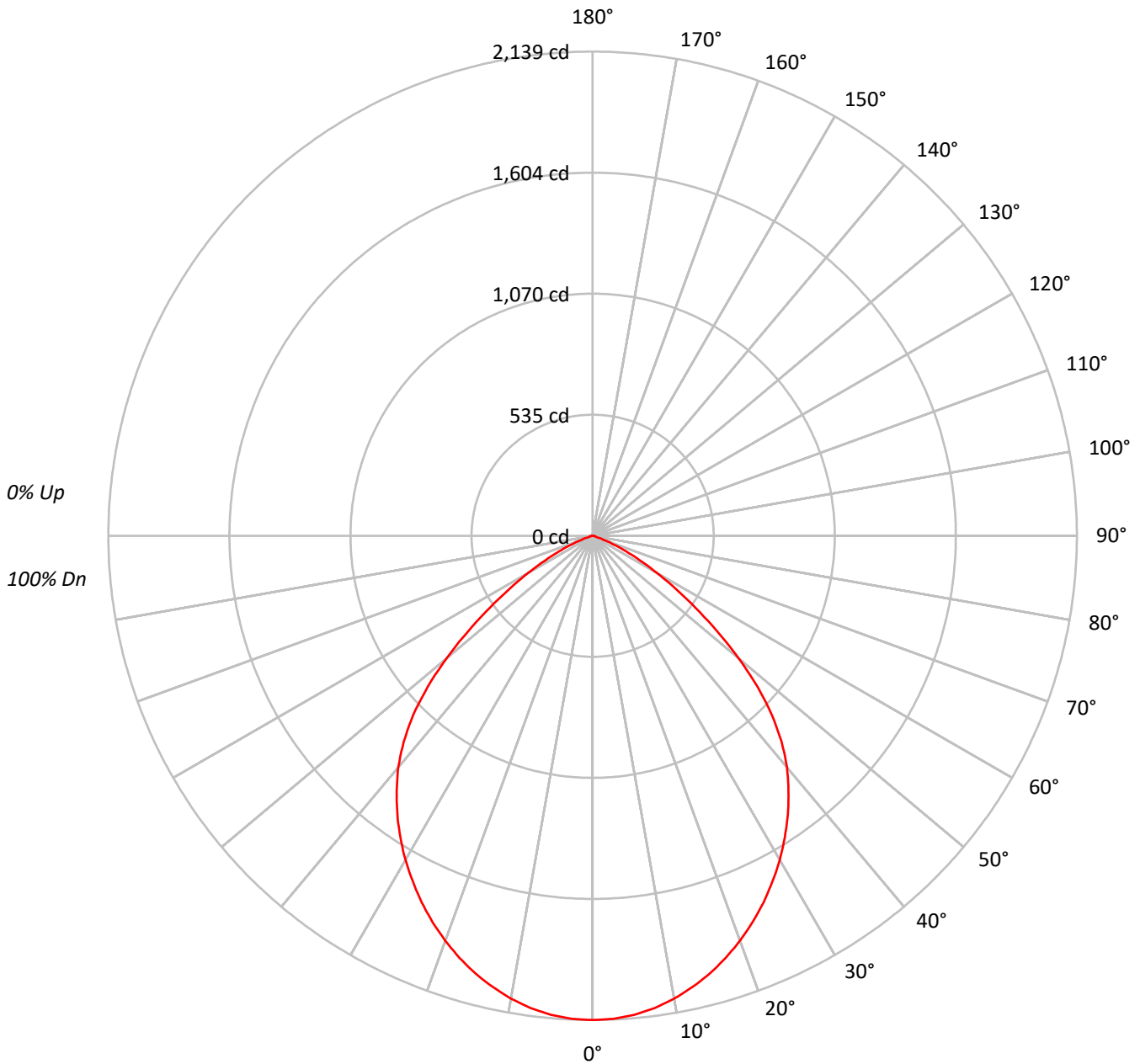
Lumens per Lamp: N/A
Luminaire Lumens: 4074.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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°	206409
5°	205706
10°	203440
15°	199945
20°	195464
25°	190240
30°	184248
35°	177146
40°	168216
45°	152940
50°	126258
55°	92977
60°	63104
65°	36941
70°	14585
75°	3281
80°	4279
85°	7307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	4.9
10°-20°	563.6	13.8
20°-30°	822.1	20.2
30°-40°	938.4	23.0
40°-50°	853.1	20.9
50°-60°	503.1	12.4
60°-70°	168.7	4.1
70°-80°	17.6	0.4
80°-90°	6.1	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°	1586.9	39.0
0°-40°	2525.3	62.0
0°-60°	3881.5	95.3
0°-90°	4074.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4074.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2139	
5°	2124	201
15°	2002	564
25°	1787	822
35°	1504	938
45°	1121	853
55°	553	503
65°	162	169
75°	9	18
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2139.2
2.5°	2135.9
5°	2123.8
7.5°	2104.0
10°	2076.4
12.5°	2041.2
15°	2001.6
17.5°	1955.3
20°	1903.6
22.5°	1847.4
25°	1786.9
27.5°	1720.8
30°	1653.7
32.5°	1579.9
35°	1503.9
37.5°	1421.4
40°	1335.5
42.5°	1235.3
45°	1120.8
47.5°	988.7
50°	841.1
52.5°	693.6
55°	552.7
57.5°	432.7
60°	327.0
62.5°	236.7
65°	161.8
67.5°	99.1
70°	51.7
72.5°	19.8
75°	8.8
77.5°	8.8
80°	7.7
82.5°	6.6
85°	6.6
87.5°	5.5
90°	0.0



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— 0°-180°







(END OF REPORT)