

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: P840393

Luminaire Tested: **LDS4C50D010 EU4509035 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: P840393
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 EU4509035 4LBPSSQMMS
Description: 4 INCH 5000 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

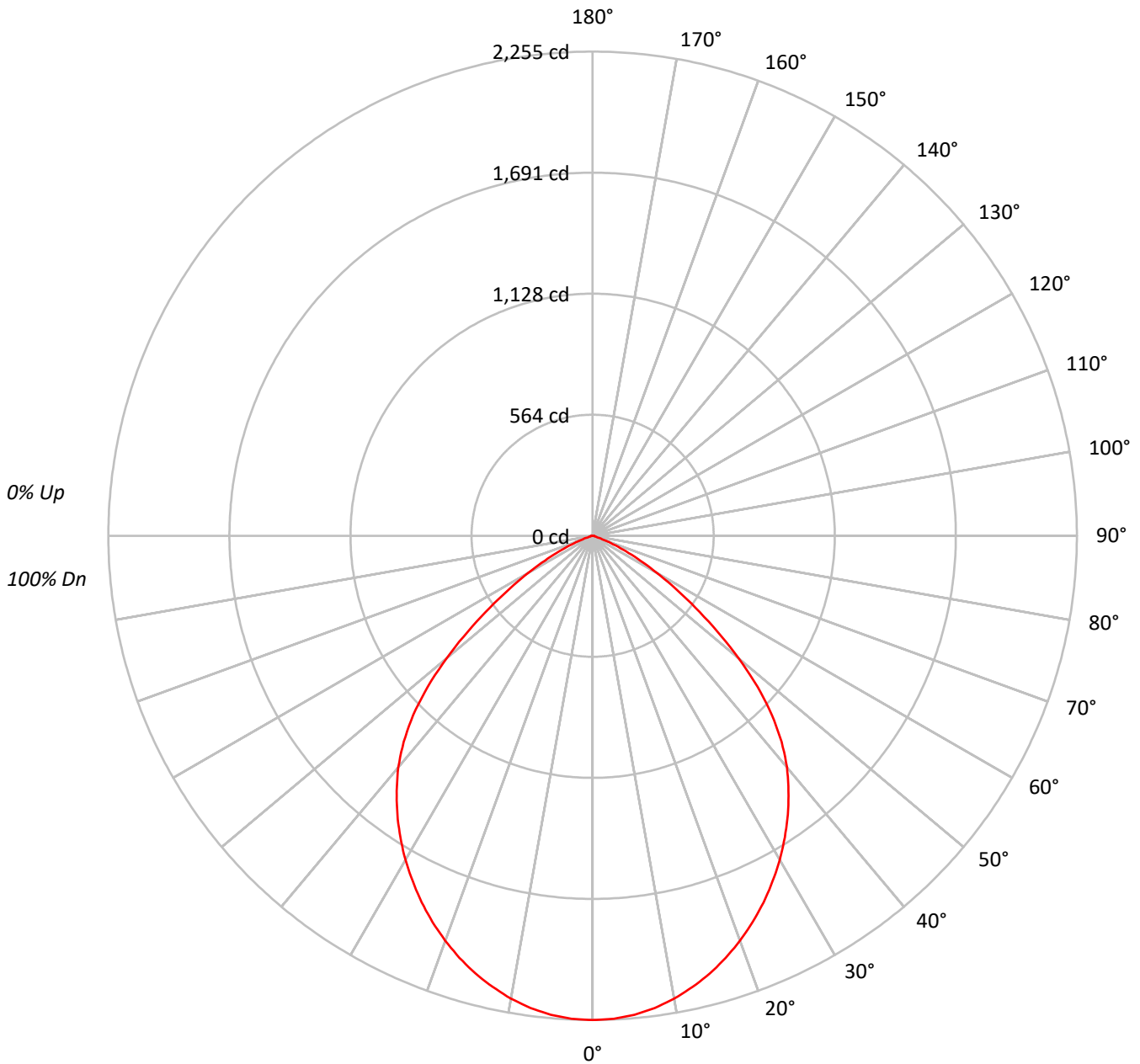
Lumens per Lamp: N/A
Luminaire Lumens: 4295.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V):
Input Current (Ain): 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				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
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79				79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70				70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62				62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55				55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	217602
5°	216864
10°	214482
15°	210783
20°	206061
25°	200556
30°	194242
35°	186758
40°	177335
45°	161236
50°	133118
55°	98024
60°	66519
65°	38950
70°	15403
75°	3467
80°	4501
85°	7750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	4.9
10°-20°	594.2	13.8
20°-30°	866.7	20.2
30°-40°	989.3	23.0
40°-50°	899.4	20.9
50°-60°	530.4	12.4
60°-70°	177.9	4.1
70°-80°	18.6	0.4
80°-90°	6.5	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°	1673.0	39.0
0°-40°	2662.3	62.0
0°-60°	4092.1	95.3
0°-90°	4295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2255	
5°	2239	212
15°	2110	594
25°	1884	867
35°	1586	989
45°	1182	899
55°	583	530
65°	171	178
75°	9	19
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2255.2
2.5°	2251.7
5°	2239.0
7.5°	2218.1
10°	2189.1
12.5°	2151.9
15°	2110.1
17.5°	2061.4
20°	2006.8
22.5°	1947.6
25°	1883.8
27.5°	1814.2
30°	1743.4
32.5°	1665.6
35°	1585.5
37.5°	1498.5
40°	1407.9
42.5°	1302.3
45°	1181.6
47.5°	1042.3
50°	886.8
52.5°	731.2
55°	582.7
57.5°	456.2
60°	344.7
62.5°	249.5
65°	170.6
67.5°	104.5
70°	54.6
72.5°	20.9
75°	9.3
77.5°	9.3
80°	8.1
82.5°	7.0
85°	7.0
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)