

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: P840399

Luminaire Tested: **LDS4C55D010 EU4559027 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: P840399
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: LDS4C55D010 EU4559027 4LBPSSQMMS
Description: 4 INCH 5500 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

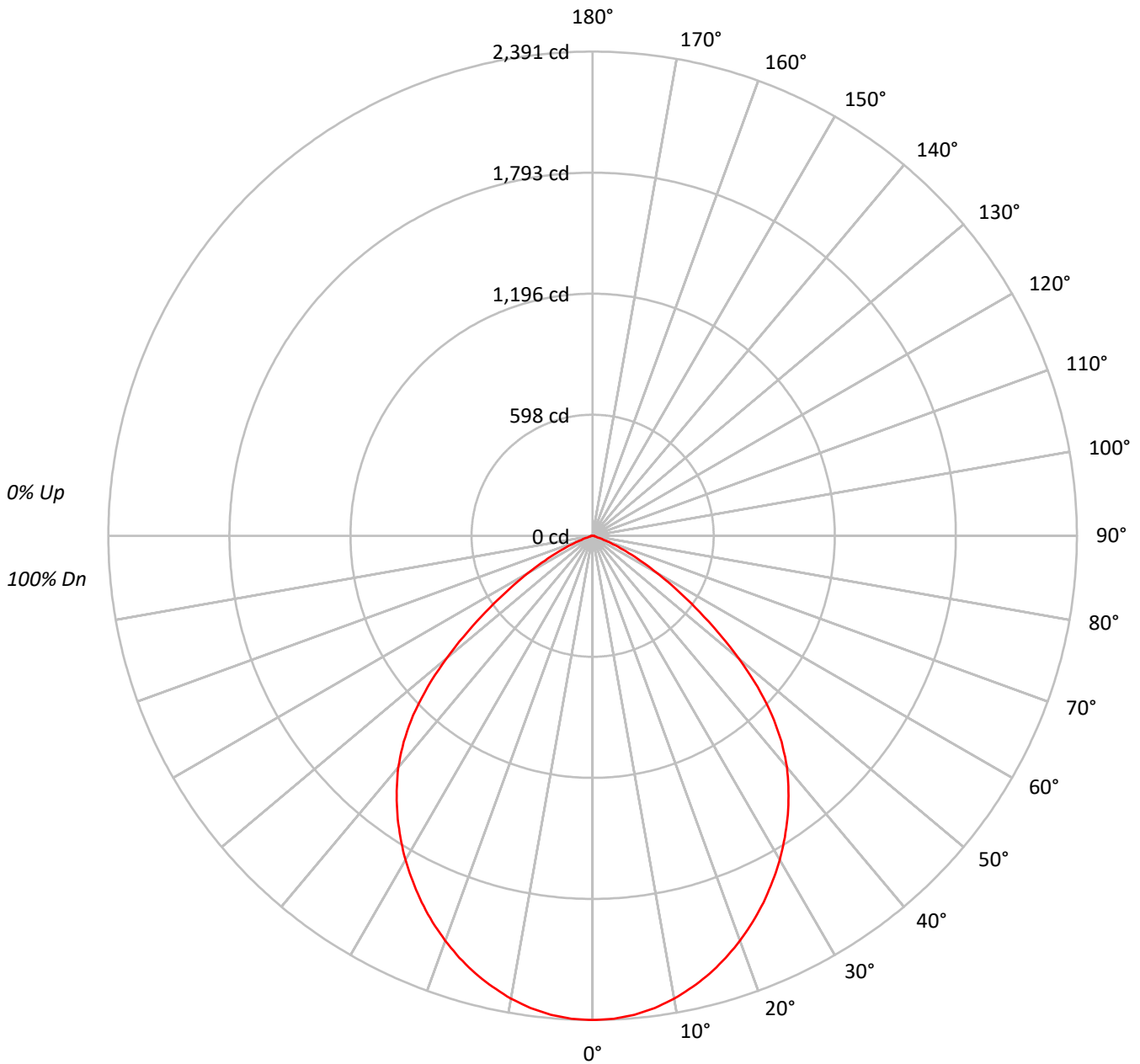
Lumens per Lamp: N/A
Luminaire Lumens: 4554.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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
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°	230724
5°	229940
10°	227415
15°	223500
20°	218496
25°	212651
30°	205952
35°	198019
40°	188029
45°	170952
50°	141133
55°	103928
60°	70533
65°	41302
70°	16306
75°	3653
80°	4779
85°	8192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	4.9
10°-20°	630.0	13.8
20°-30°	919.0	20.2
30°-40°	1048.9	23.0
40°-50°	953.6	20.9
50°-60°	562.4	12.3
60°-70°	188.6	4.1
70°-80°	19.7	0.4
80°-90°	6.9	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°	1773.9	39.0
0°-40°	2822.8	62.0
0°-60°	4338.8	95.3
0°-90°	4554.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4554.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2391	
5°	2374	225
15°	2237	630
25°	1997	919
35°	1681	1049
45°	1253	954
55°	618	562
65°	181	189
75°	10	20
85°	7	7
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2391.2
2.5°	2387.5
5°	2374.0
7.5°	2351.8
10°	2321.1
12.5°	2281.7
15°	2237.4
17.5°	2185.7
20°	2127.9
22.5°	2065.1
25°	1997.4
27.5°	1923.6
30°	1848.5
32.5°	1766.0
35°	1681.1
37.5°	1588.8
40°	1492.8
42.5°	1380.8
45°	1252.8
47.5°	1105.2
50°	940.2
52.5°	775.3
55°	617.8
57.5°	483.7
60°	365.5
62.5°	264.6
65°	180.9
67.5°	110.8
70°	57.8
72.5°	22.2
75°	9.8
77.5°	9.8
80°	8.6
82.5°	7.4
85°	7.4
87.5°	6.2
90°	0.0



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— 0°-180°







(END OF REPORT)