

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: P840291

Luminaire Tested: **LDS4C08D010 EU4089030 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: P840291
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: LDS4C08D010 EU4089030 4LBPSSQMMS
Description: 4 INCH 800 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

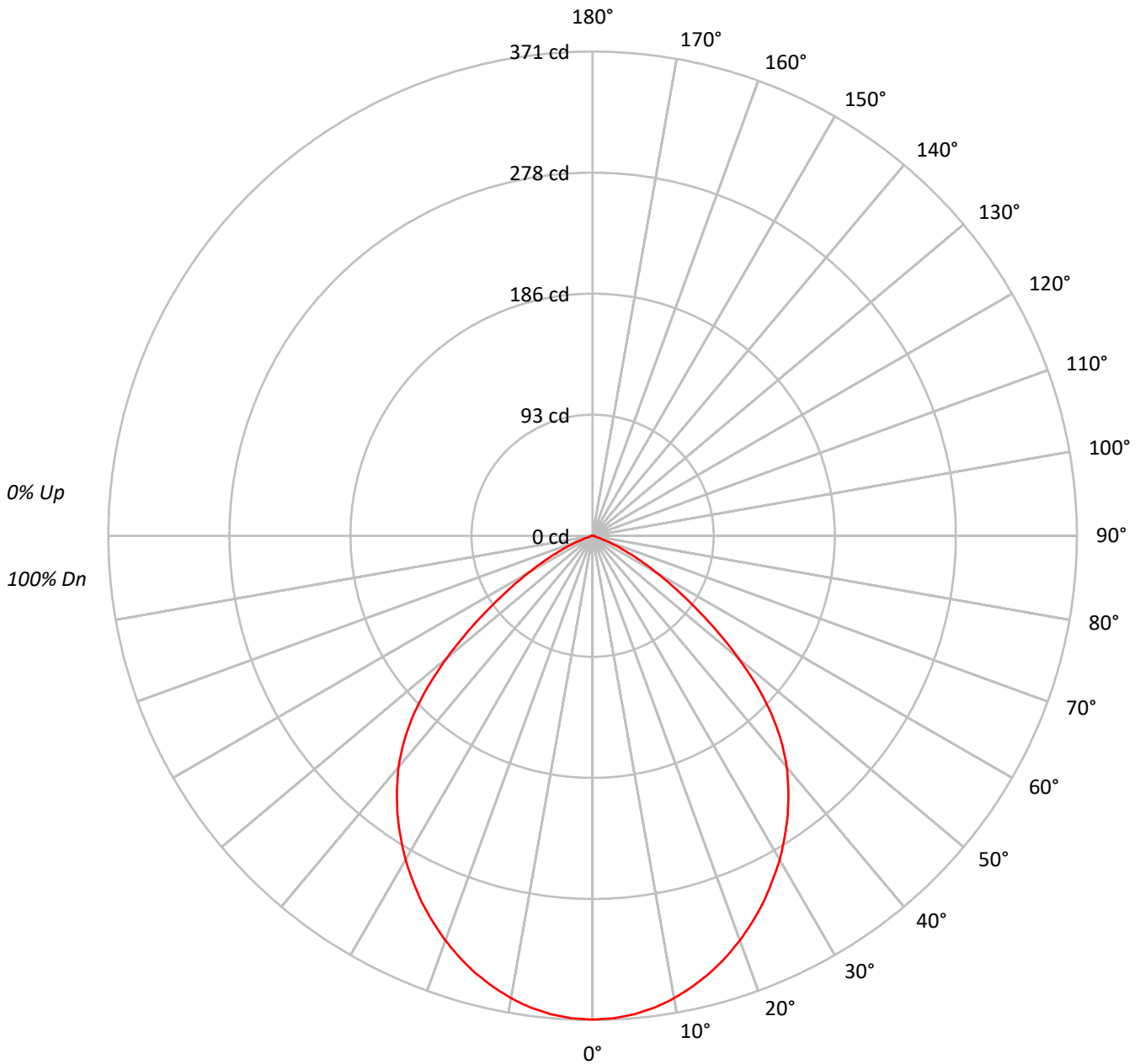
Lumens per Lamp: N/A
Luminaire Lumens: 706.0 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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				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	66	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°	35768
5°	35644
10°	35252
15°	34653
20°	33875
25°	32972
30°	31932
35°	30696
40°	29147
45°	26500
50°	21886
55°	16116
60°	10942
65°	6393
70°	2539
75°	559
80°	722
85°	1218



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	4.9
10°-20°	97.7	13.8
20°-30°	142.5	20.2
30°-40°	162.6	23.0
40°-50°	147.8	20.9
50°-60°	87.2	12.4
60°-70°	29.2	4.1
70°-80°	3.0	0.4
80°-90°	1.0	0.1
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°	275.0	39.0
0°-40°	437.6	62.0
0°-60°	672.6	95.3
0°-90°	706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	371	
5°	368	35
15°	347	98
25°	310	142
35°	261	163
45°	194	148
55°	96	87
65°	28	29
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	370.7
2.5°	370.1
5°	368.0
7.5°	364.6
10°	359.8
12.5°	353.7
15°	346.9
17.5°	338.8
20°	329.9
22.5°	320.1
25°	309.7
27.5°	298.2
30°	286.6
32.5°	273.8
35°	260.6
37.5°	246.3
40°	231.4
42.5°	214.1
45°	194.2
47.5°	171.3
50°	145.8
52.5°	120.2
55°	95.8
57.5°	75.0
60°	56.7
62.5°	41.0
65°	28.0
67.5°	17.2
70°	9.0
72.5°	3.4
75°	1.5
77.5°	1.5
80°	1.3
82.5°	1.1
85°	1.1
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)