

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: P840295

Luminaire Tested: **LDS4C08D010 EU4089040 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: P840295
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 EU4089040 4LBPSSQMMS
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBPSSQ TRIM WITH MMS FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

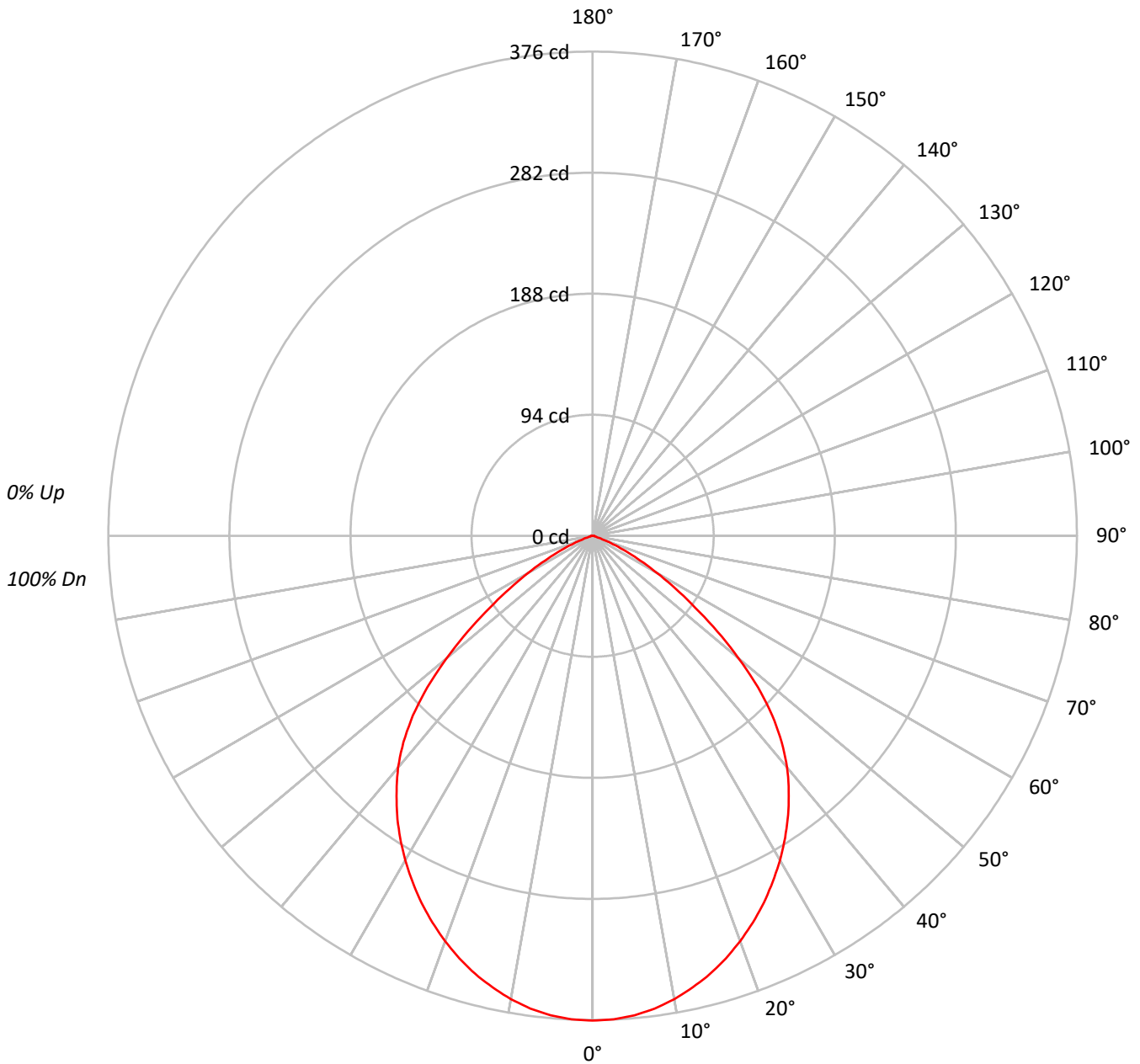
Lumens per Lamp: N/A
Luminaire Lumens: 717.1 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
Input Voltage (V):
Input Current (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				
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°	36328
5°	36205
10°	35801
15°	35192
20°	34398
25°	33483
30°	32422
35°	31179
40°	29600
45°	26923
50°	22216
55°	16368
60°	11096
65°	6507
70°	2567
75°	596
80°	778
85°	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	4.9
10°-20°	99.2	13.8
20°-30°	144.7	20.2
30°-40°	165.1	23.0
40°-50°	150.1	20.9
50°-60°	88.5	12.3
60°-70°	29.7	4.1
70°-80°	3.1	0.4
80°-90°	1.1	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°	279.3	38.9
0°-40°	444.4	62.0
0°-60°	683.1	95.3
0°-90°	717.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	717.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	376	
5°	374	35
15°	352	99
25°	314	145
35°	265	165
45°	197	150
55°	97	89
65°	28	30
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	376.5
2.5°	375.9
5°	373.8
7.5°	370.3
10°	365.4
12.5°	359.2
15°	352.3
17.5°	344.1
20°	335.0
22.5°	325.1
25°	314.5
27.5°	302.9
30°	291.0
32.5°	278.1
35°	264.7
37.5°	250.1
40°	235.0
42.5°	217.4
45°	197.3
47.5°	174.0
50°	148.0
52.5°	122.1
55°	97.3
57.5°	76.1
60°	57.5
62.5°	41.7
65°	28.5
67.5°	17.4
70°	9.1
72.5°	3.5
75°	1.6
77.5°	1.6
80°	1.4
82.5°	1.2
85°	1.2
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)