

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: P839710

Luminaire Tested: **LDS4C10D010 EU4109030 4LBSB**

Issue Date: 8/24/2022



Test Information

Test Method: LM-79-08
Report Number: P839710
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: LDS4C10D010 EU4109030 4LBSB
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

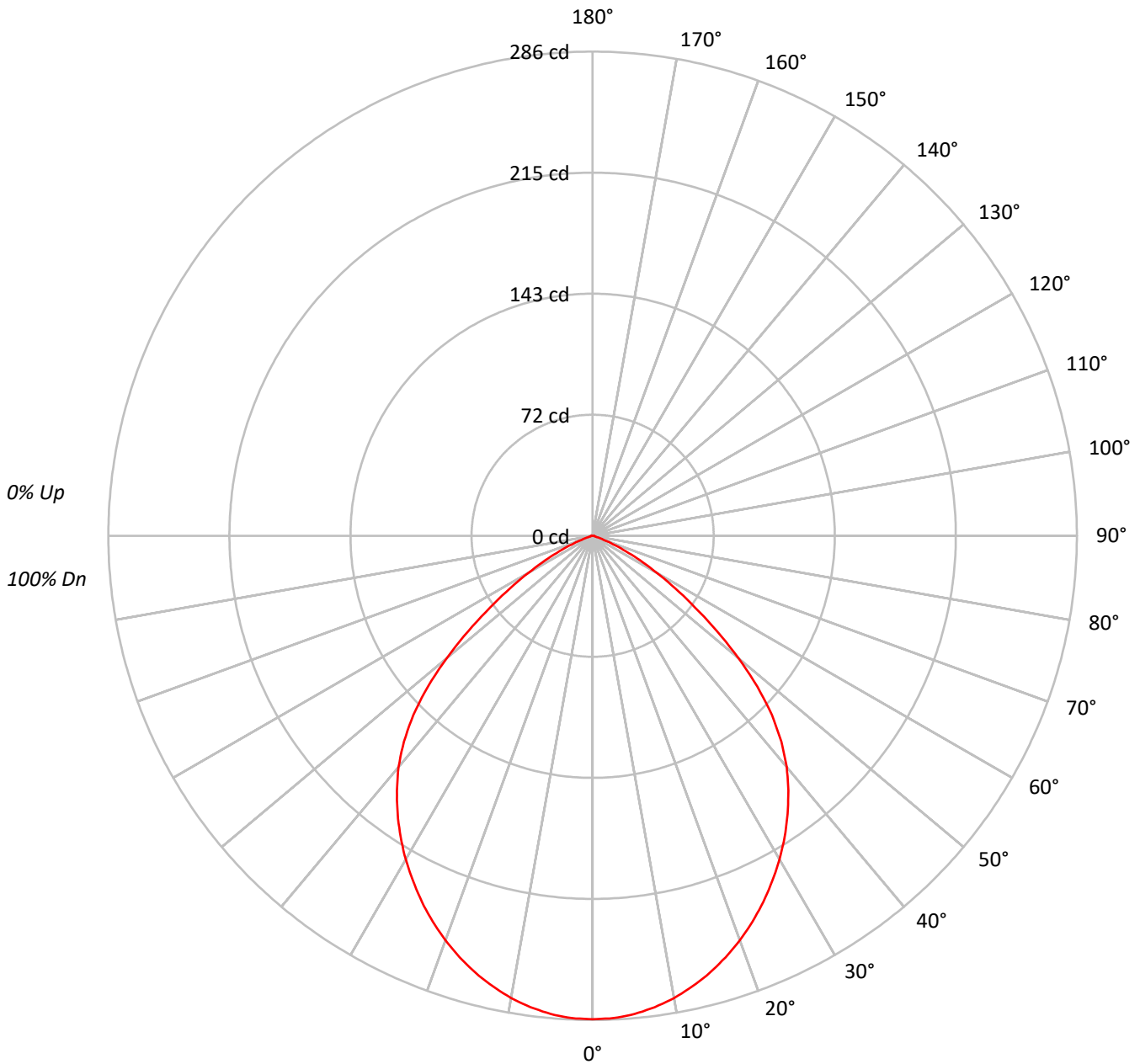
Lumens per Lamp: N/A
Luminaire Lumens: 544.0 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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

TEST NUMBER: P839710

CATALOG NUMBER: LDS4C10D010 EU4109030 4LBSB

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	66	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°	35087
5°	34974
10°	34593
15°	33997
20°	33234
25°	32343
30°	31322
35°	30115
40°	28595
45°	26009
50°	21463
55°	15807
60°	10737
65°	6279
70°	2478
75°	570
80°	707
85°	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	4.9
10°-20°	75.3	13.8
20°-30°	109.8	20.2
30°-40°	125.3	23.0
40°-50°	113.9	20.9
50°-60°	67.2	12.4
60°-70°	22.5	4.1
70°-80°	2.3	0.4
80°-90°	0.8	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°	211.9	39.0
0°-40°	337.2	62.0
0°-60°	518.3	95.3
0°-90°	544.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	544.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	286	
5°	284	27
15°	267	75
25°	239	110
35°	201	125
45°	150	114
55°	74	67
65°	22	23
75°	1	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	285.6
2.5°	285.2
5°	283.6
7.5°	280.9
10°	277.3
12.5°	272.6
15°	267.3
17.5°	261.1
20°	254.2
22.5°	246.7
25°	238.6
27.5°	229.8
30°	220.8
32.5°	211.0
35°	200.8
37.5°	189.8
40°	178.3
42.5°	164.9
45°	149.7
47.5°	132.0
50°	112.3
52.5°	92.6
55°	73.8
57.5°	57.8
60°	43.7
62.5°	31.6
65°	21.6
67.5°	13.2
70°	6.9
72.5°	2.6
75°	1.2
77.5°	1.2
80°	1.0
82.5°	0.9
85°	0.9
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)