

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: P839850

Luminaire Tested: **LDS4C25D010 EU4259027 4LBSB**

Issue Date: 8/24/2022

Test Information

Test Method: LM-79-08
Report Number: P839850
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: LDS4C25D010 EU4259027 4LBSB
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBS TRIM WITH B FINISH
Light Source: -
Ballast/Driver: -

Summary

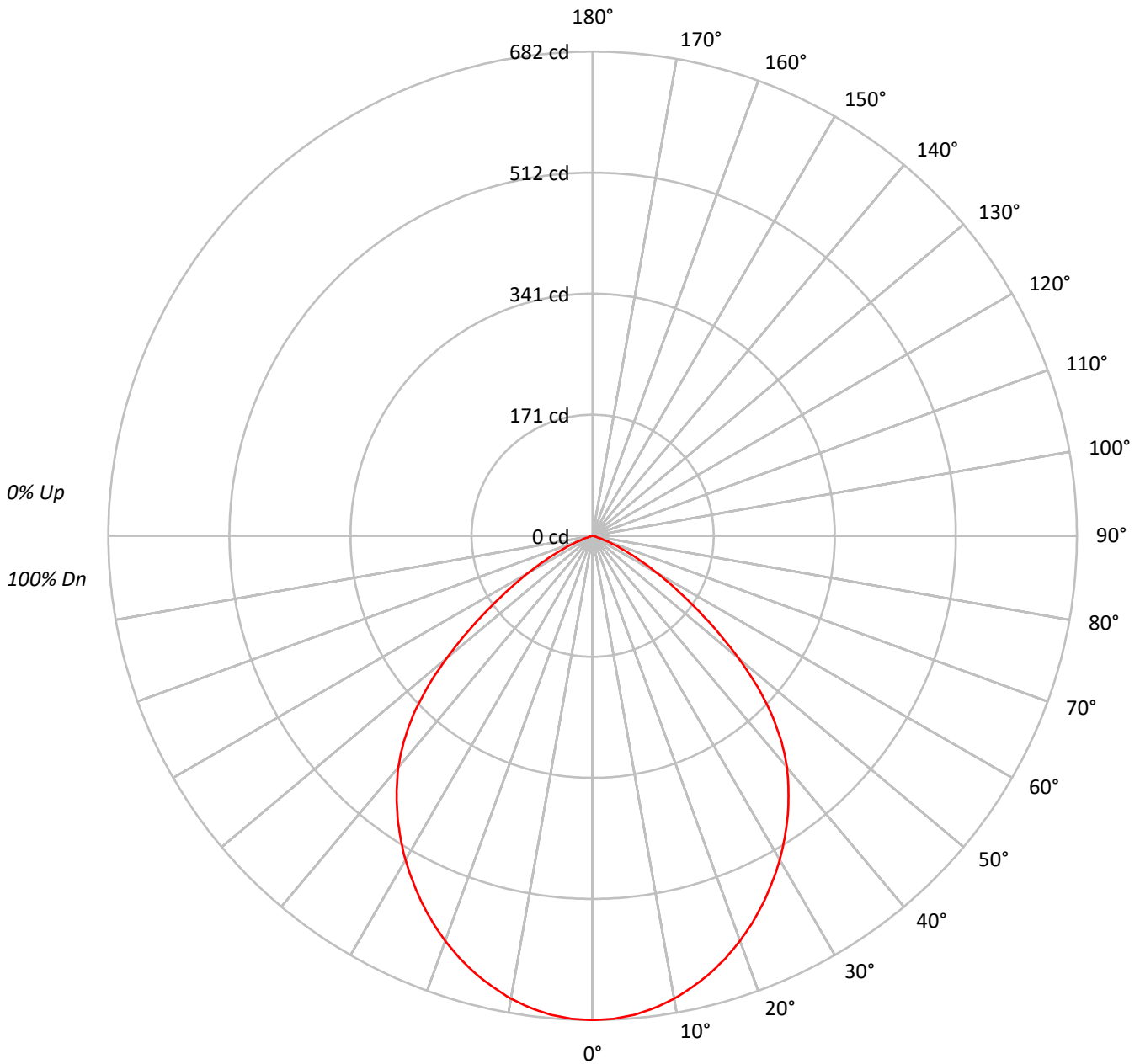
Lumens per Lamp: N/A
Luminaire Lumens: 1299.0 lumens
Efficiency: N/A
Efficacy: 41.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62	62	62	62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55	55	55	55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49	49	49	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44	44	44	44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40	40	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33	33	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83798
5°	83514
10°	82596
15°	81171
20°	79358
25°	77225
30°	74802
35°	71914
40°	68287
45°	62095
50°	51260
55°	37740
60°	25627
65°	15000
70°	5927
75°	1329
80°	1769
85°	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	4.9
10°-20°	179.7	13.8
20°-30°	262.1	20.2
30°-40°	299.2	23.0
40°-50°	272.0	20.9
50°-60°	160.4	12.4
60°-70°	53.8	4.1
70°-80°	5.6	0.4
80°-90°	2.0	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°	506.0	39.0
0°-40°	805.2	62.0
0°-60°	1237.6	95.3
0°-90°	1299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1299.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	682	
5°	677	64
15°	638	180
25°	570	262
35°	480	299
45°	357	272
55°	176	160
65°	52	54
75°	3	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	682.1
2.5°	681.0
5°	677.2
7.5°	670.8
10°	662.1
12.5°	650.8
15°	638.2
17.5°	623.5
20°	607.0
22.5°	589.1
25°	569.7
27.5°	548.7
30°	527.3
32.5°	503.7
35°	479.5
37.5°	453.2
40°	425.8
42.5°	393.9
45°	357.4
47.5°	315.2
50°	268.2
52.5°	221.2
55°	176.2
57.5°	138.0
60°	104.3
62.5°	75.5
65°	51.6
67.5°	31.6
70°	16.5
72.5°	6.3
75°	2.8
77.5°	2.8
80°	2.5
82.5°	2.1
85°	2.1
87.5°	1.8
90°	0.0



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— 0°-180°







(END OF REPORT)