

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: P839763

Luminaire Tested: **LDS4C15D010 EU4159030 4LBSLI**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839763  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P208407)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C15D010 EU4159030 4LBSLI  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBS TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

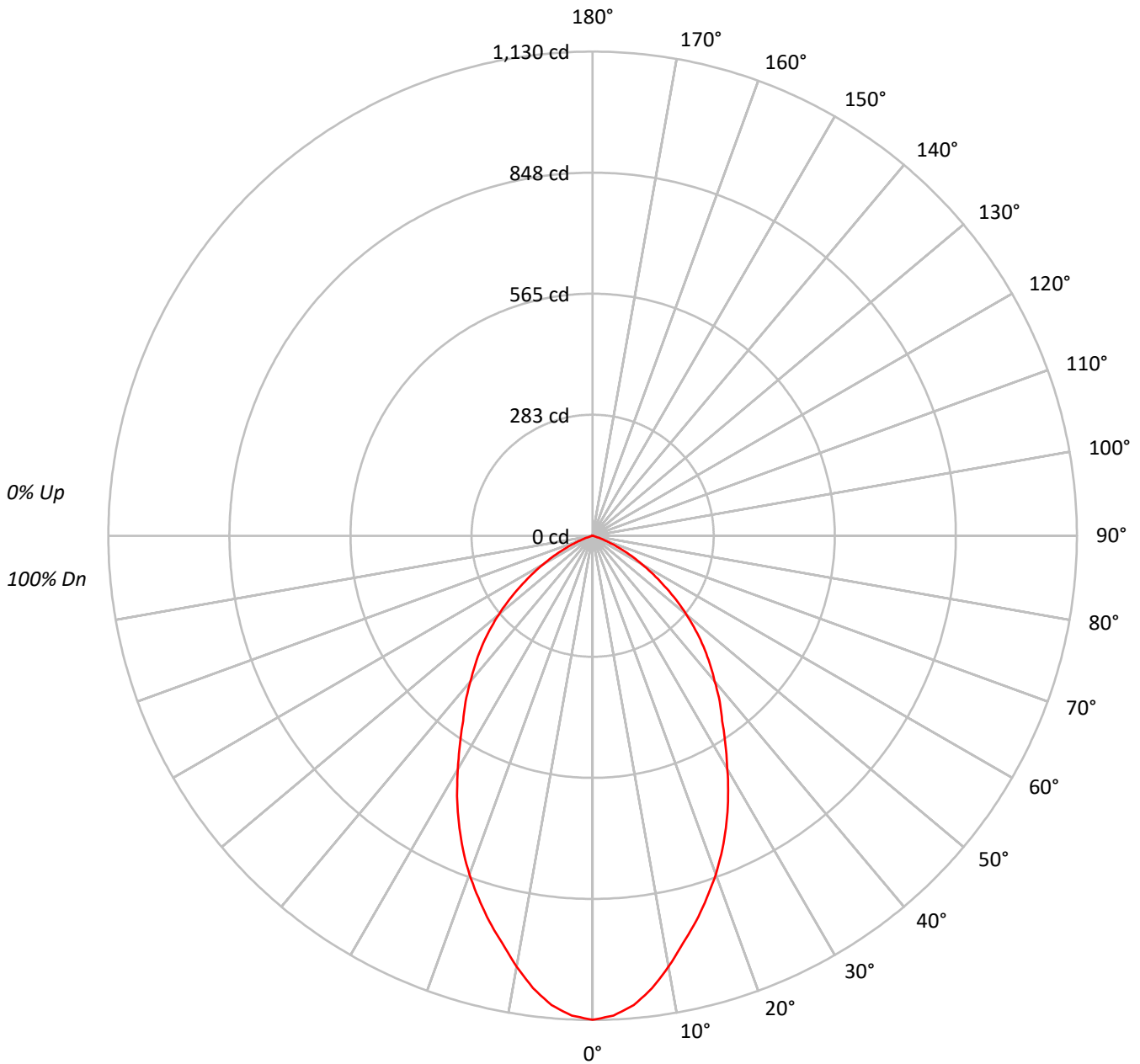
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1582.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	84	87	84	82	80			80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71			71
4	90	81	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63			63
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57			57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51			51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36			36

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	138775
5°	135630
10°	127368
15°	118500
20°	109898
25°	100188
30°	89187
35°	79053
40°	71062
45°	63589
50°	54566
55°	43887
60°	32704
65°	20872
70°	10058
75°	1661
80°	1203
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	6.5
10°-20°	261.2	16.5
20°-30°	338.5	21.4
30°-40°	331.7	21.0
40°-50°	281.1	17.8
50°-60°	184.3	11.6
60°-70°	74.1	4.7
70°-80°	8.4	0.5
80°-90°	0.2	0.0
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°	702.2	44.4
0°-40°	1033.8	65.3
0°-60°	1499.2	94.8
0°-90°	1582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1130	
5°	1100	102
15°	932	261
25°	739	339
35°	527	332
45°	366	281
55°	205	184
65°	72	74
75°	4	8
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1129.6
2.5°	1120.8
5°	1099.8
7.5°	1064.8
10°	1021.0
12.5°	973.7
15°	931.7
17.5°	886.2
20°	840.6
22.5°	791.6
25°	739.1
27.5°	684.8
30°	628.7
32.5°	576.2
35°	527.1
37.5°	486.9
40°	443.1
42.5°	404.6
45°	366.0
47.5°	325.7
50°	285.5
52.5°	245.2
55°	204.9
57.5°	168.1
60°	133.1
62.5°	101.6
65°	71.8
67.5°	47.3
70°	28.0
72.5°	12.2
75°	3.5
77.5°	1.7
80°	1.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)