

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: P839754

Luminaire Tested: **LDS4C15D010 EU4159027 4LBSWH**

Issue Date: 8/24/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P839754  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205729)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/24/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LDS4C15D010 EU4159027 4LBSWH  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBS TRIM WITH WH FINISH  
Light Source: -  
Ballast/Driver: -

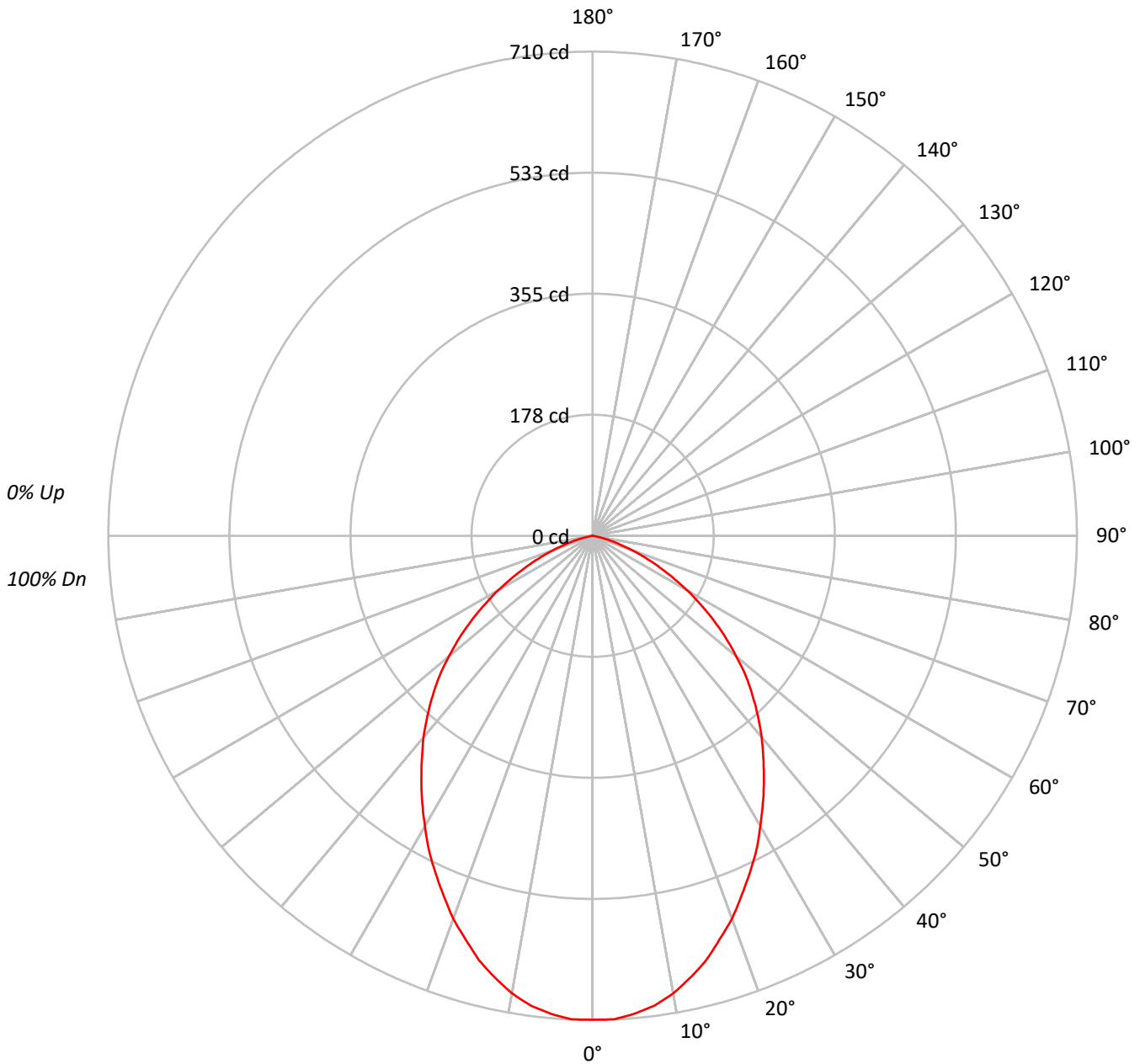
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1357.0 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.17  
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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77			
3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51			
6	75	63	55	49	73	62	54	49	60	54	49	59	53	48	57	52	48	46			
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41			
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37			
9	61	49	41	36	60	48	41	36	47	40	36	46	40	36	45	40	35	34			
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	37	33	31			

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

	0°
0°	87189
5°	86782
10°	84991
15°	81909
20°	78129
25°	73917
30°	69738
35°	65660
40°	61824
45°	57630
50°	52541
55°	46415
60°	39289
65°	30843
70°	22019
75°	12057
80°	2122
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	4.9
10°-20°	180.7	13.3
20°-30°	250.9	18.5
30°-40°	273.8	20.2
40°-50°	255.4	18.8
50°-60°	193.9	14.3
60°-70°	106.2	7.8
70°-80°	29.2	2.2
80°-90°	0.4	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°	498.1	36.7
0°-40°	771.9	56.9
0°-60°	1221.2	90.0
0°-90°	1357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	710	
5°	704	66
15°	644	181
25°	545	251
35°	438	274
45°	332	255
55°	217	194
65°	106	106
75°	25	29
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	709.7
2.5°	709.7
5°	703.7
7.5°	694.8
10°	681.3
12.5°	663.4
15°	644.0
17.5°	620.1
20°	597.6
22.5°	570.8
25°	545.3
27.5°	520.0
30°	491.6
32.5°	464.7
35°	437.8
37.5°	410.9
40°	385.5
42.5°	358.6
45°	331.7
47.5°	304.8
50°	274.9
52.5°	246.5
55°	216.7
57.5°	188.2
60°	159.9
62.5°	131.5
65°	106.1
67.5°	82.2
70°	61.3
72.5°	41.8
75°	25.4
77.5°	11.9
80°	3.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)