

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: P839789

Luminaire Tested: **LDS4C15D010 EU4159050 4LBPSMMS**

Issue Date: 8/24/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P839789  
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: LDS4C15D010 EU4159050 4LBPSMMS  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPS TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

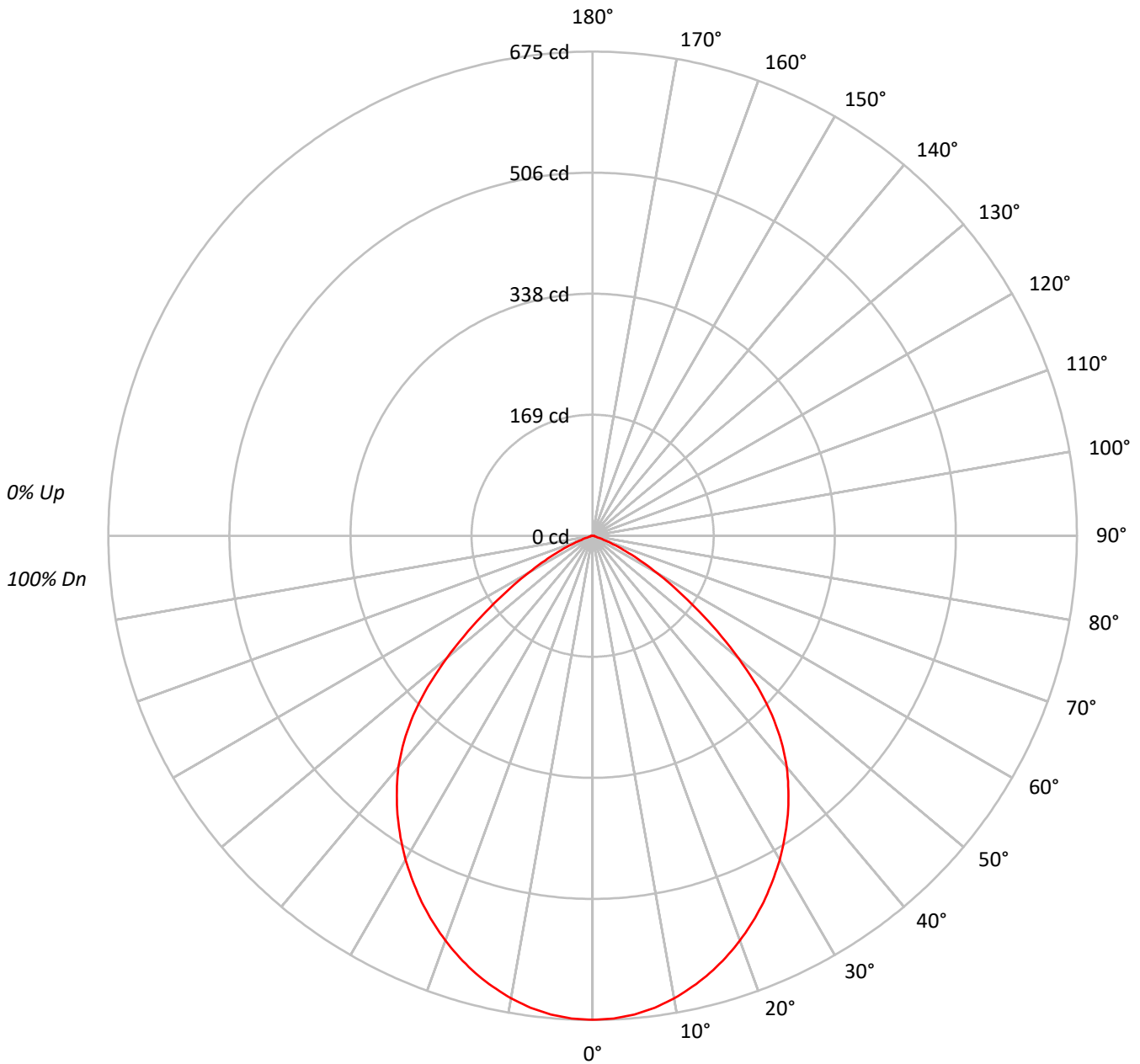
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1285.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 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): 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	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°	82889
5°	82614
10°	81698
15°	80293
20°	78495
25°	76398
30°	73994
35°	71149
40°	67549
45°	61417
50°	50706
55°	37333
60°	25332
65°	14826
70°	5855
75°	1329
80°	1698
85°	2960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	4.9
10°-20°	177.8	13.8
20°-30°	259.3	20.2
30°-40°	296.0	23.0
40°-50°	269.1	20.9
50°-60°	158.7	12.4
60°-70°	53.2	4.1
70°-80°	5.6	0.4
80°-90°	1.9	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°	500.5	39.0
0°-40°	796.5	62.0
0°-60°	1224.3	95.3
0°-90°	1285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	675	
5°	670	63
15°	631	178
25°	564	259
35°	474	296
45°	354	269
55°	174	159
65°	51	53
75°	3	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	674.7
2.5°	673.7
5°	669.9
7.5°	663.6
10°	654.9
12.5°	643.8
15°	631.3
17.5°	616.7
20°	600.4
22.5°	582.7
25°	563.6
27.5°	542.8
30°	521.6
32.5°	498.3
35°	474.4
37.5°	448.3
40°	421.2
42.5°	389.6
45°	353.5
47.5°	311.8
50°	265.3
52.5°	218.8
55°	174.3
57.5°	136.5
60°	103.1
62.5°	74.7
65°	51.0
67.5°	31.3
70°	16.3
72.5°	6.3
75°	2.8
77.5°	2.8
80°	2.4
82.5°	2.1
85°	2.1
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)