

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: P840326

Luminaire Tested: **LDS4C15D010 EU4159050 4LBPSSQMB**

Issue Date: 8/24/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P840326  
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 4LBPSSQMB  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

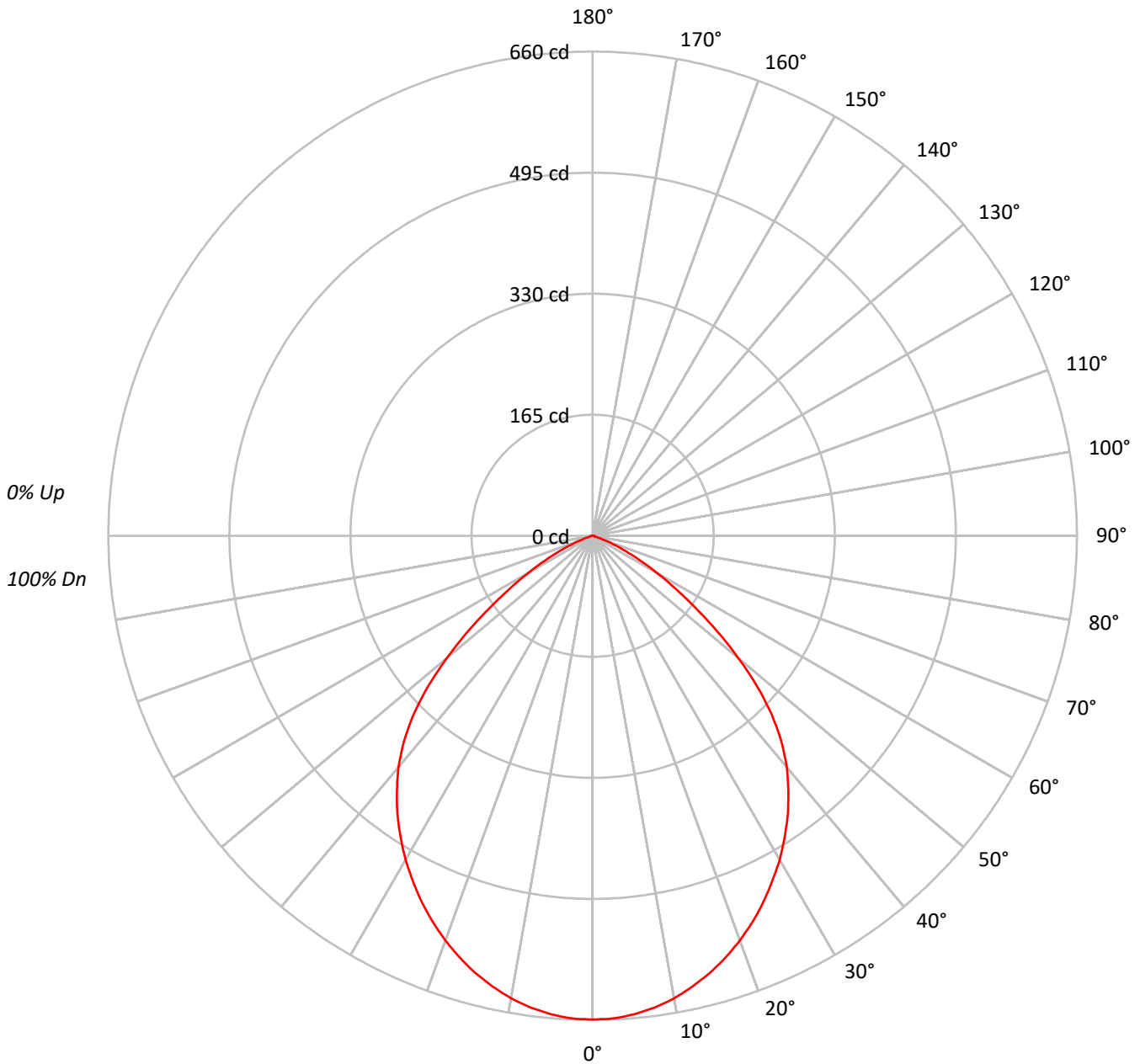
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1256.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 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	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°	63634
5°	63422
10°	62725
15°	61644
20°	60264
25°	58651
30°	56800
35°	54620
40°	51857
45°	47146
50°	38924
55°	28665
60°	19452
65°	11393
70°	4514
75°	1007
80°	1334
85°	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	4.9
10°-20°	173.8	13.8
20°-30°	253.5	20.2
30°-40°	289.3	23.0
40°-50°	263.0	20.9
50°-60°	155.1	12.3
60°-70°	52.0	4.1
70°-80°	5.4	0.4
80°-90°	1.9	0.1
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°	489.2	39.0
0°-40°	778.6	62.0
0°-60°	1196.6	95.3
0°-90°	1256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1256.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	660	
5°	655	62
15°	617	174
25°	551	253
35°	464	289
45°	346	263
55°	170	155
65°	50	52
75°	3	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	659.5
2.5°	658.5
5°	654.8
7.5°	648.6
10°	640.2
12.5°	629.3
15°	617.1
17.5°	602.8
20°	586.9
22.5°	569.6
25°	550.9
27.5°	530.5
30°	509.8
32.5°	487.1
35°	463.7
37.5°	438.2
40°	411.7
42.5°	380.8
45°	345.5
47.5°	304.8
50°	259.3
52.5°	213.8
55°	170.4
57.5°	133.4
60°	100.8
62.5°	73.0
65°	49.9
67.5°	30.5
70°	16.0
72.5°	6.1
75°	2.7
77.5°	2.7
80°	2.4
82.5°	2.0
85°	2.0
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)