

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: P840421

Luminaire Tested: **LDS4C65D010 EU4659030 4LPSSQMMS**

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: P840421  
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: LDS4C65D010 EU4659030 4LBPSSQMMS  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

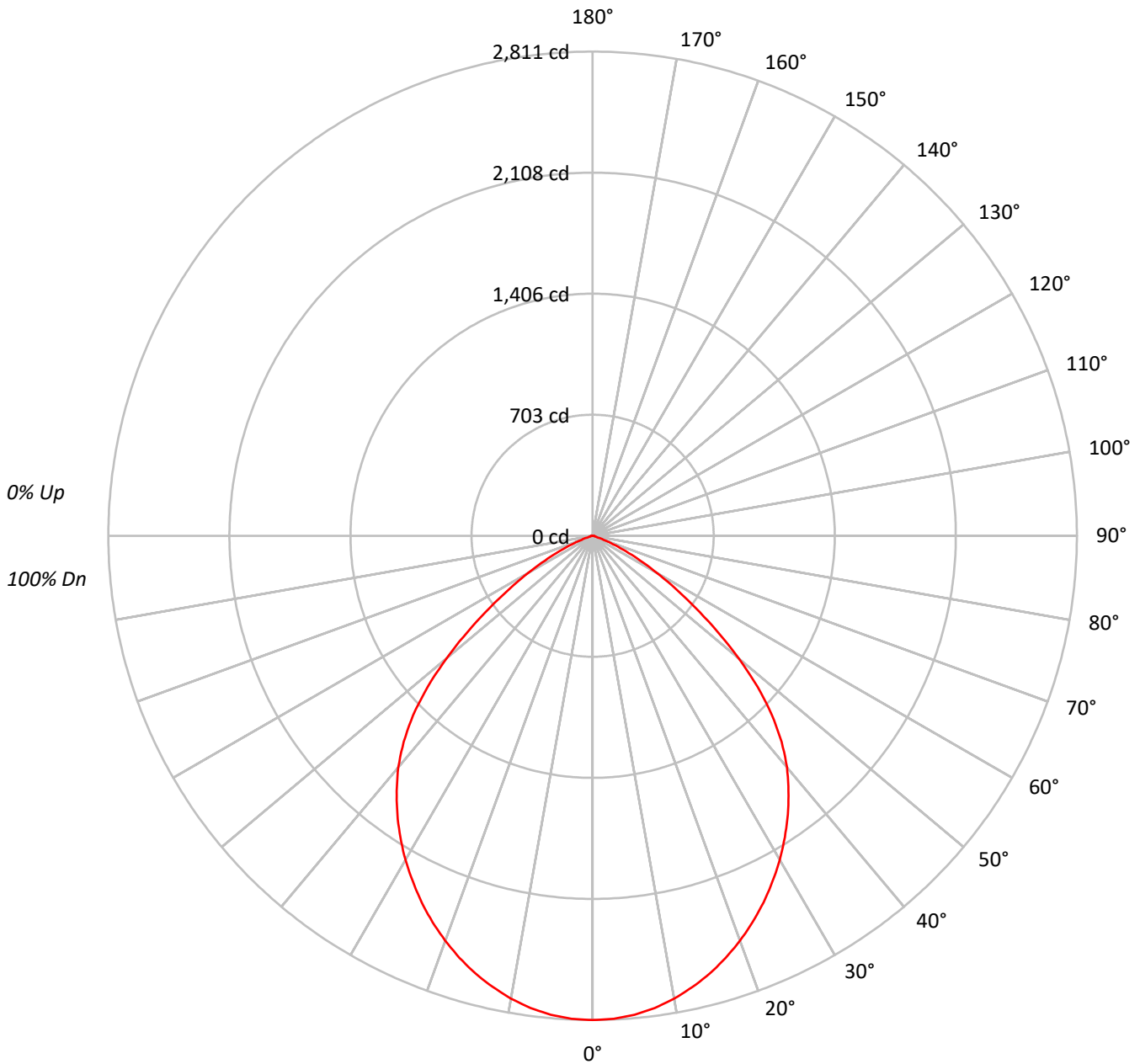
Lumens per Lamp: N/A  
Luminaire Lumens: 5354.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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°	271259
5°	270329
10°	267361
15°	262758
20°	256878
25°	250009
30°	242129
35°	232803
40°	221068
45°	200986
50°	165932
55°	122181
60°	82923
65°	48562
70°	19184
75°	4325
80°	5612
85°	9632



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.4	4.9
10°-20°	740.7	13.8
20°-30°	1080.4	20.2
30°-40°	1233.2	23.0
40°-50°	1121.1	20.9
50°-60°	661.2	12.3
60°-70°	221.8	4.1
70°-80°	23.2	0.4
80°-90°	8.1	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°	2085.5	39.0
0°-40°	3318.7	62.0
0°-60°	5101.0	95.3
0°-90°	5354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2811	
5°	2791	264
15°	2630	741
25°	2348	1080
35°	1976	1233
45°	1473	1121
55°	726	661
65°	213	222
75°	12	23
85°	9	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2811.3
2.5°	2806.9
5°	2791.0
7.5°	2765.0
10°	2728.8
12.5°	2682.5
15°	2630.4
17.5°	2569.7
20°	2501.7
22.5°	2427.9
25°	2348.3
27.5°	2261.5
30°	2173.2
32.5°	2076.3
35°	1976.4
37.5°	1867.9
40°	1755.1
42.5°	1623.4
45°	1472.9
47.5°	1299.3
50°	1105.4
52.5°	911.5
55°	726.3
57.5°	568.6
60°	429.7
62.5°	311.1
65°	212.7
67.5°	130.2
70°	68.0
72.5°	26.0
75°	11.6
77.5°	11.6
80°	10.1
82.5°	8.7
85°	8.7
87.5°	7.2
90°	0.0



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— 0°-180°







(END OF REPORT)