

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: P840403

Luminaire Tested: **LDS4C55D010 EU4559035 4LBPSSQMMS**

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: P840403  
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: LDS4C55D010 EU4559035 4LBPSSQMMS  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

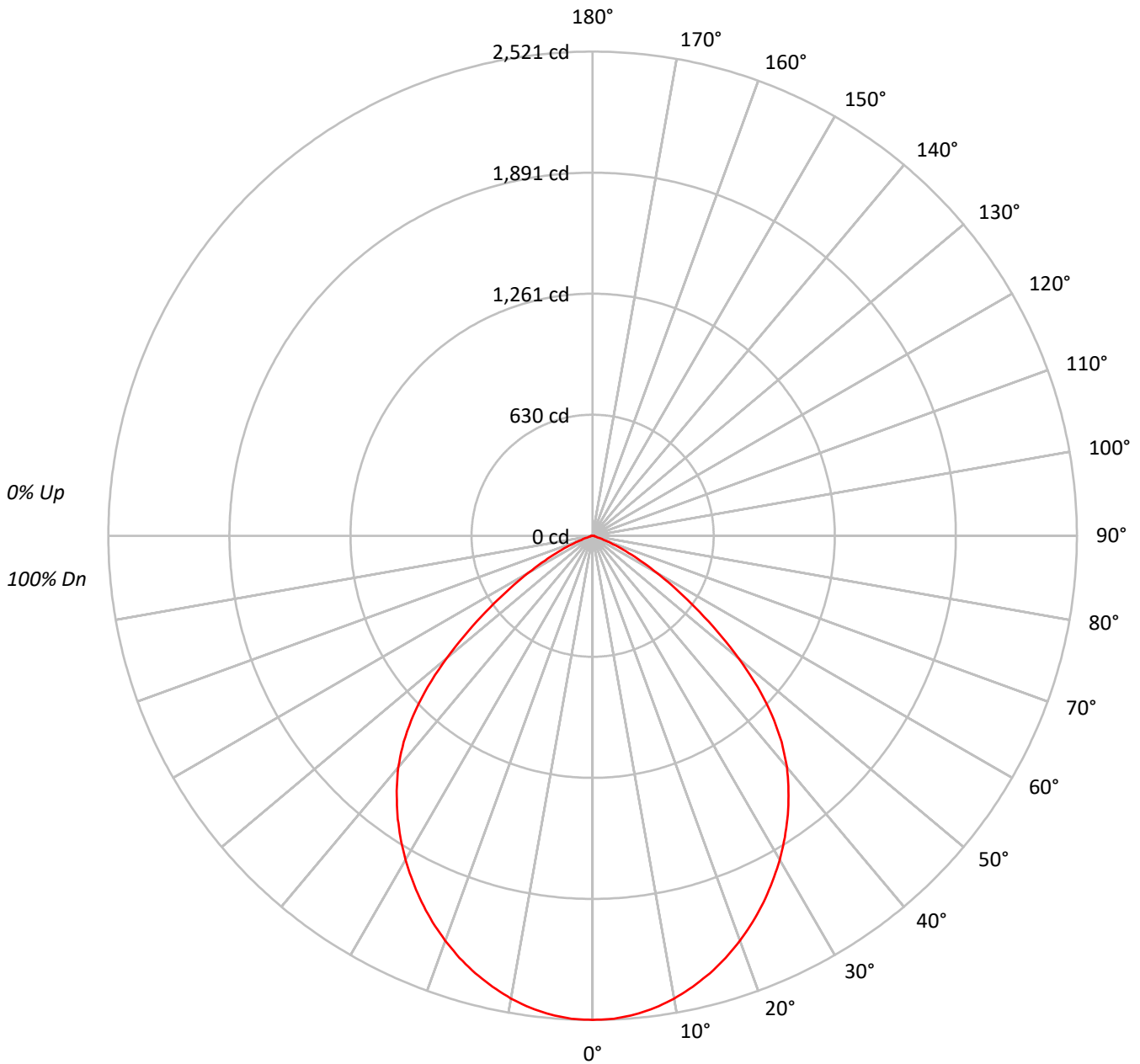
Lumens per Lamp: N/A  
Luminaire Lumens: 4801.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.9  
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°	243239
5°	242415
10°	239751
15°	235617
20°	230345
25°	224181
30°	217116
35°	208761
40°	198232
45°	180231
50°	148789
55°	109564
60°	74354
65°	43539
70°	17209
75°	3877
80°	5056
85°	8635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.1	4.9
10°-20°	664.2	13.8
20°-30°	968.8	20.2
30°-40°	1105.8	23.0
40°-50°	1005.3	20.9
50°-60°	592.9	12.3
60°-70°	198.8	4.1
70°-80°	20.8	0.4
80°-90°	7.3	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°	1870.1	39.0
0°-40°	2975.9	62.0
0°-60°	4574.1	95.3
0°-90°	4801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4801.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2521	
5°	2503	237
15°	2359	664
25°	2106	969
35°	1772	1106
45°	1321	1005
55°	651	593
65°	191	199
75°	10	21
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2520.9
2.5°	2517.0
5°	2502.8
7.5°	2479.4
10°	2447.0
12.5°	2405.4
15°	2358.7
17.5°	2304.2
20°	2243.3
22.5°	2177.1
25°	2105.7
27.5°	2027.9
30°	1948.7
32.5°	1861.8
35°	1772.3
37.5°	1675.0
40°	1573.8
42.5°	1455.7
45°	1320.8
47.5°	1165.1
50°	991.2
52.5°	817.4
55°	651.3
57.5°	509.9
60°	385.3
62.5°	278.9
65°	190.7
67.5°	116.8
70°	61.0
72.5°	23.4
75°	10.4
77.5°	10.4
80°	9.1
82.5°	7.8
85°	7.8
87.5°	6.5
90°	0.0



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— 0°-180°







(END OF REPORT)