

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: P840407

Luminaire Tested: **LDS4C55D010 EU4559050 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: P840407  
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 EU4559050 4LBPSSQMMS  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBPSSQ TRIM WITH MMS FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

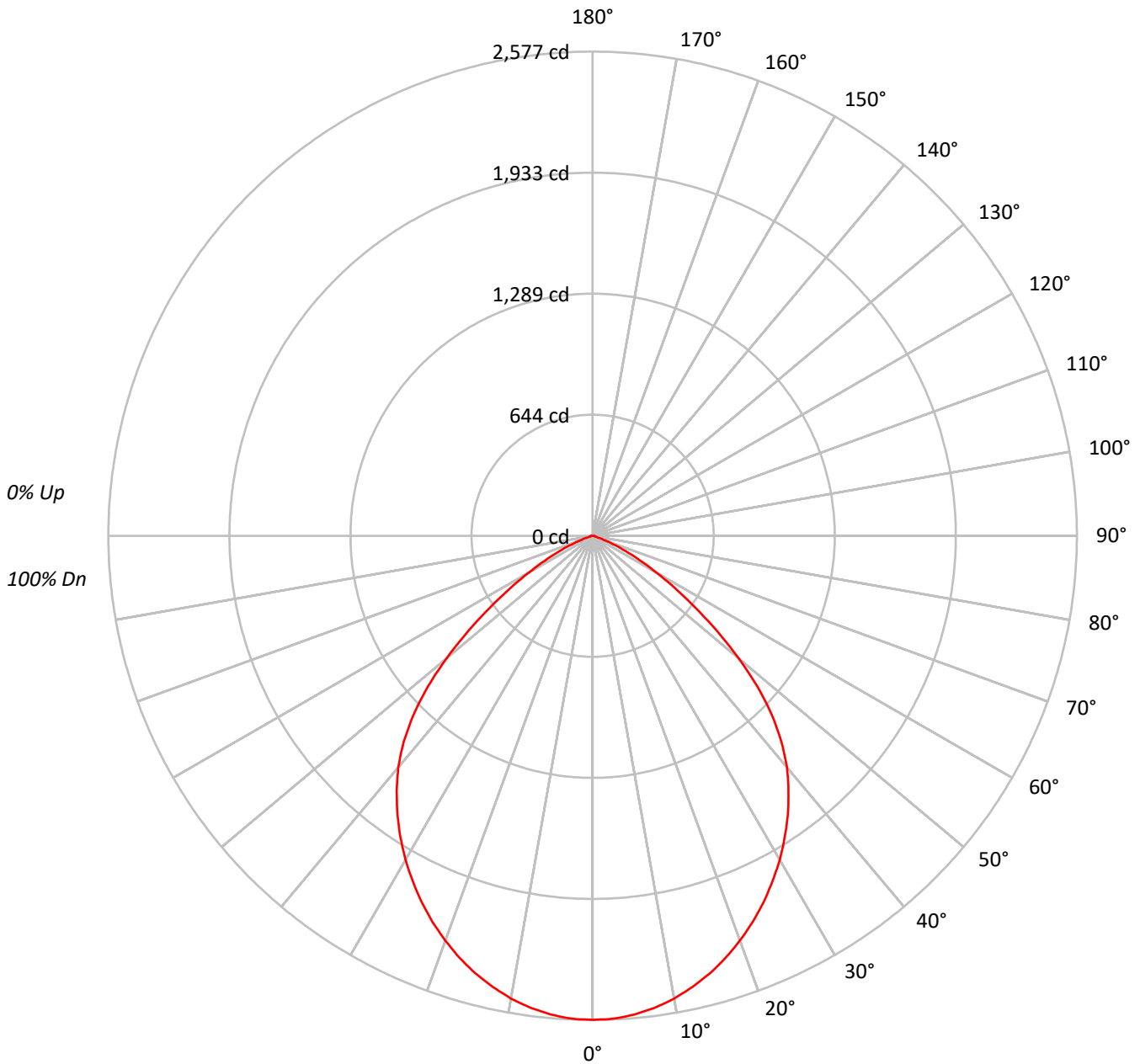
Lumens per Lamp: N/A  
Luminaire Lumens: 4907.0 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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			100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			70
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62			62
5	83	72	64	59	81	71	64	58	69	63	58	67	61	57	65	60	57	55			55
6	77	65	58	52	75	65	57	52	63	56	52	61	56	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40			40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			33

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

	0°
0°	248613
5°	247761
10°	245041
15°	240821
20°	235428
25°	229131
30°	221918
35°	213367
40°	202602
45°	184215
50°	152077
55°	111986
60°	75995
65°	44498
70°	17576
75°	3952
80°	5168
85°	8857



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.4	4.9
10°-20°	678.8	13.8
20°-30°	990.2	20.2
30°-40°	1130.2	23.0
40°-50°	1027.5	20.9
50°-60°	606.0	12.3
60°-70°	203.2	4.1
70°-80°	21.2	0.4
80°-90°	7.4	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°	1911.4	39.0
0°-40°	3041.6	62.0
0°-60°	4675.1	95.3
0°-90°	4907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2577	
5°	2558	242
15°	2411	679
25°	2152	990
35°	1811	1130
45°	1350	1028
55°	666	606
65°	195	203
75°	11	21
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2576.6
2.5°	2572.6
5°	2558.0
7.5°	2534.1
10°	2501.0
12.5°	2458.6
15°	2410.8
17.5°	2355.1
20°	2292.8
22.5°	2225.2
25°	2152.2
27.5°	2072.7
30°	1991.8
32.5°	1902.9
35°	1811.4
37.5°	1712.0
40°	1608.5
42.5°	1487.9
45°	1350.0
47.5°	1190.8
50°	1013.1
52.5°	835.4
55°	665.7
57.5°	521.1
60°	393.8
62.5°	285.1
65°	194.9
67.5°	119.3
70°	62.3
72.5°	23.9
75°	10.6
77.5°	10.6
80°	9.3
82.5°	8.0
85°	8.0
87.5°	6.6
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)