

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: P840402

Luminaire Tested: **LDS4C55D010 EU4559035 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: P840402  
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 4LBSSQMB  
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSSQ TRIM WITH MB FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

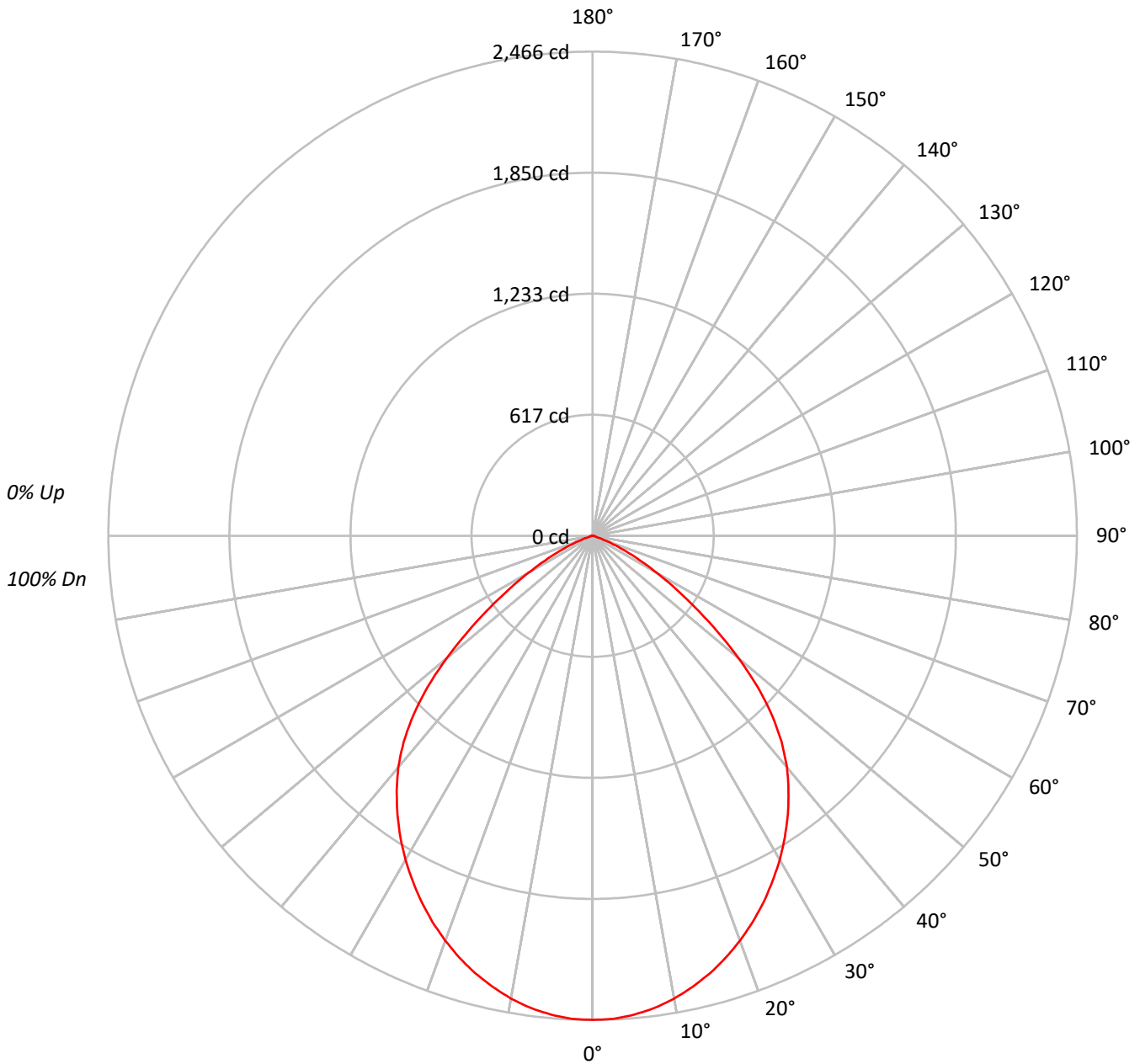
Lumens per Lamp: N/A  
Luminaire Lumens: 4696.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.25  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	237922
5°	237107
10°	234499
15°	230472
20°	225303
25°	219283
30°	212370
35°	204191
40°	193899
45°	176287
50°	145547
55°	107175
60°	72733
65°	42603
70°	16814
75°	3803
80°	4945
85°	8414



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.9	4.9
10°-20°	649.6	13.8
20°-30°	947.6	20.2
30°-40°	1081.6	23.0
40°-50°	983.3	20.9
50°-60°	580.0	12.4
60°-70°	194.5	4.1
70°-80°	20.3	0.4
80°-90°	7.1	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°	1829.2	39.0
0°-40°	2910.8	62.0
0°-60°	4474.1	95.3
0°-90°	4696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4696.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2466	
5°	2448	232
15°	2307	650
25°	2060	948
35°	1734	1082
45°	1292	983
55°	637	580
65°	187	194
75°	10	20
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2465.8
2.5°	2462.0
5°	2448.0
7.5°	2425.2
10°	2393.4
12.5°	2352.8
15°	2307.2
17.5°	2253.8
20°	2194.2
22.5°	2129.5
25°	2059.7
27.5°	1983.5
30°	1906.1
32.5°	1821.1
35°	1733.5
37.5°	1638.4
40°	1539.4
42.5°	1423.9
45°	1291.9
47.5°	1139.6
50°	969.6
52.5°	799.5
55°	637.1
57.5°	498.7
60°	376.9
62.5°	272.8
65°	186.6
67.5°	114.2
70°	59.6
72.5°	22.8
75°	10.2
77.5°	10.2
80°	8.9
82.5°	7.6
85°	7.6
87.5°	6.3
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)