

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: P#

Luminaire Tested: **LD4C25D010 EX4C259027 4LCSQWH**

Issue Date: 2/18/2022

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: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25D010 EX4C259027 4LCSQWH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

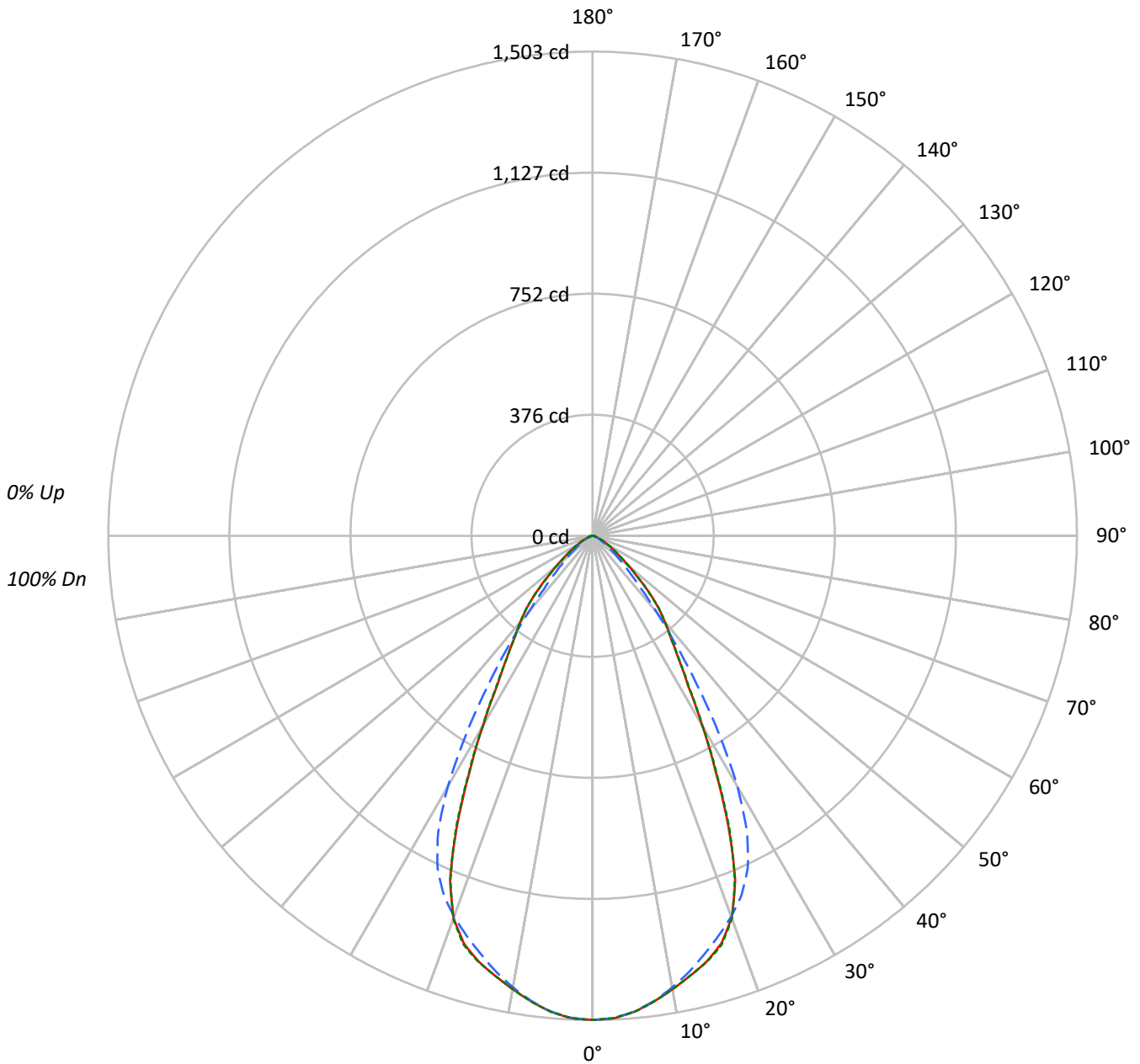
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1591.0 lumens  
Efficiency: N/A  
Efficacy: 50.5 lumens/watt  
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V):  
Input Current (Ain): 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									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

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

	0°	45°	90°
0°	145042	145042	145042
5°	143717	143620	143669
10°	140029	139481	140029
15°	136663	134196	136803
20°	129574	129091	129820
25°	106283	121273	106847
30°	75796	100196	75896
35°	54667	66387	54832
40°	43821	38568	43821
45°	33445	22515	33186
50°	22066	14381	21991
55°	14837	9656	14669
60°	9977	6581	10054
65°	6827	4658	6712
70°	4542	3357	4542
75°	3020	2461	3020
80°	2111	1834	2111
85°	1550	1550	1550



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	8.8
10°-20°	381.0	23.9
20°-30°	476.3	29.9
30°-40°	320.4	20.1
40°-50°	169.2	10.6
50°-60°	68.8	4.3
60°-70°	25.5	1.6
70°-80°	8.2	0.5
80°-90°	1.8	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°	997.1	62.7
0°-40°	1317.5	82.8
0°-60°	1555.5	97.8
0°-90°	1591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1484	1482	1483	1483	1483	140
15°	1368	1357	1343	1356	1370	383
25°	998	1054	1139	1056	1004	449
35°	464	487	564	488	466	299
45°	245	233	165	232	243	188
55°	88	74	57	74	87	82
65°	30	24	20	24	29	31
75°	8	7	7	7	8	9
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1503.2	1503.2	1503.2	1503.2	1503.2
2.5°	1499.4	1498.5	1498.0	1498.0	1498.5
5°	1483.8	1482.3	1482.8	1482.8	1483.3
7.5°	1458.6	1458.2	1456.7	1458.6	1458.6
10°	1429.2	1426.9	1423.6	1427.3	1429.2
12.5°	1398.9	1391.8	1386.1	1391.8	1398.9
15°	1368.1	1356.7	1343.4	1356.2	1369.5
17.5°	1327.8	1316.4	1301.7	1318.8	1331.6
20°	1261.9	1262.9	1257.2	1261.9	1264.3
22.5°	1156.2	1177.5	1207.4	1178.0	1152.9
25°	998.3	1054.3	1139.1	1056.2	1003.6
27.5°	829.1	900.2	1039.1	904.5	834.3
30°	680.3	743.3	899.3	747.6	681.2
32.5°	550.8	597.8	731.0	603.5	557.0
35°	464.1	487.3	563.6	488.3	465.5
37.5°	397.7	397.7	418.6	399.6	395.8
40°	347.9	332.8	306.2	332.3	347.9
42.5°	301.5	278.7	222.3	277.8	302.4
45°	245.1	232.8	165.0	231.8	243.2
47.5°	188.2	179.7	124.2	178.7	189.6
50°	147.0	133.7	95.8	132.7	146.5
52.5°	112.8	98.6	74.0	98.6	111.9
55°	88.2	74.0	57.4	74.0	87.2
57.5°	67.8	56.4	43.6	55.5	67.3
60°	51.7	42.2	34.1	42.2	52.1
62.5°	39.3	32.2	26.1	31.8	38.9
65°	29.9	24.2	20.4	24.2	29.4
67.5°	21.8	18.0	15.6	18.0	22.3
70°	16.1	13.7	11.9	13.3	16.1
72.5°	11.9	10.0	9.0	10.0	11.9
75°	8.1	7.1	6.6	7.1	8.1
77.5°	5.7	5.2	4.7	5.2	5.7
80°	3.8	3.3	3.3	3.8	3.8
82.5°	2.4	2.4	2.4	2.4	2.4
85°	1.4	1.4	1.4	1.4	1.4
87.5°	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)