

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: **LD4C05D010 EX4C059050 4LCSQWLI**

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 (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C05D010 EX4C059050 4LCSQWLI  
Description: 4 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

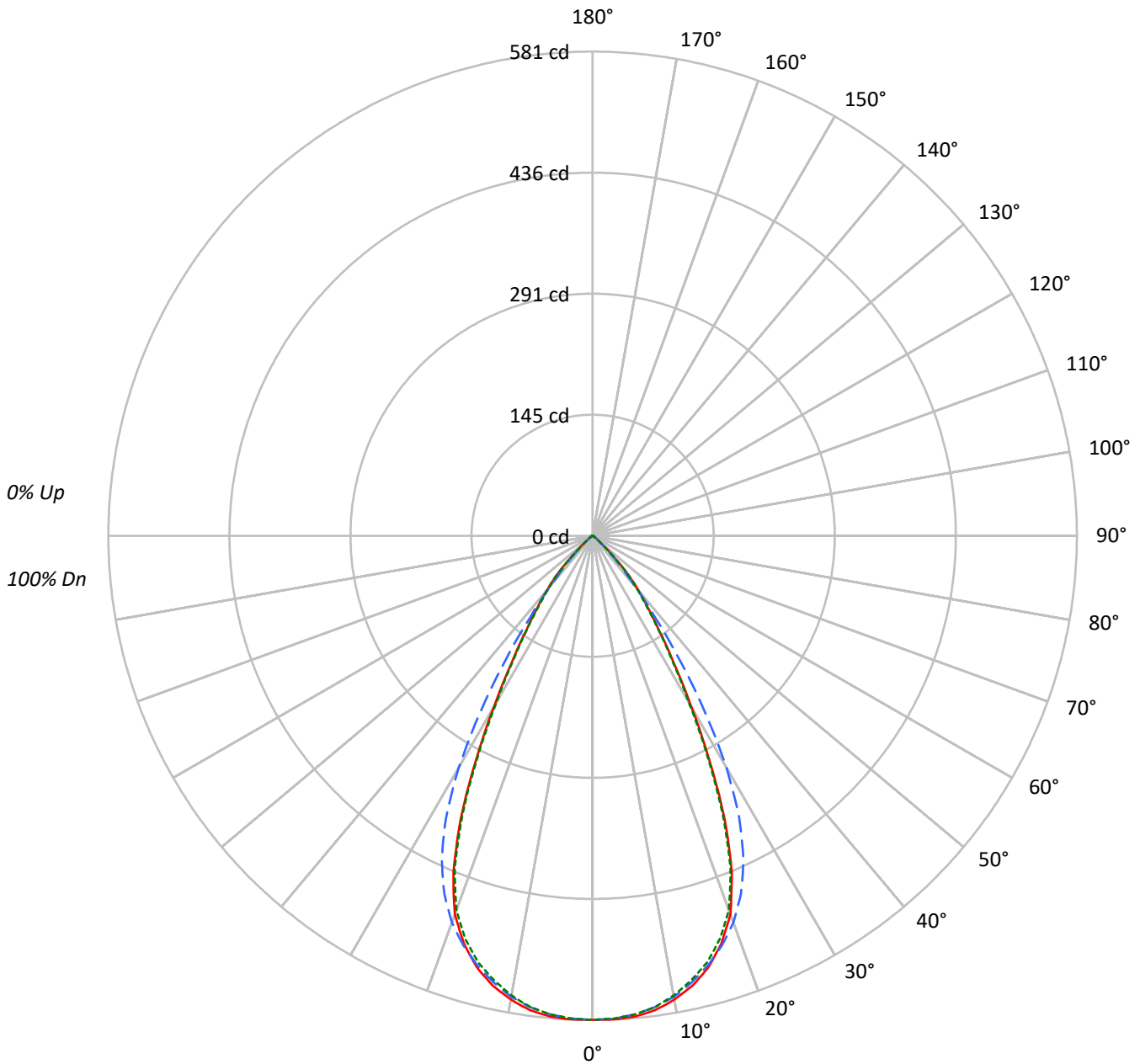
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 520.0 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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

TEST NUMBER: P#  
CATALOG NUMBER: LD4C05D010 EX4C059050 4LCSQWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: LD4C05D010 EX4C059050 4LCSQWLI

**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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

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

	0°	45°	90°
0°	56041	56041	56041
5°	56100	55848	55848
10°	55367	55044	54867
15°	53572	53313	52953
20°	49616	50694	49061
25°	39892	45598	39370
30°	26328	35753	25704
35°	16455	21473	16161
40°	10744	9951	10316
45°	5172	3971	4885
50°	1306	1576	1216
55°	723	656	690
60°	482	405	463
65°	342	297	342
70°	254	226	254
75°	186	186	186
80°	167	222	222
85°	111	332	332



TEST NUMBER: P#

CATALOG NUMBER: LD4C05D010 EX4C059050 4LCSQWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.6	10.5
10°-20°	149.2	28.7
20°-30°	177.8	34.2
30°-40°	100.7	19.4
40°-50°	31.1	6.0
50°-60°	4.3	0.8
60°-70°	1.5	0.3
70°-80°	0.6	0.1
80°-90°	0.3	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°	381.6	73.4
0°-40°	482.2	92.7
0°-60°	517.7	99.6
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	579	578	577	576	577	55
15°	536	535	534	532	530	150
25°	375	397	428	397	370	167
35°	140	152	182	153	137	91
45°	38	44	29	43	36	31
55°	4	4	4	4	4	4
65°	2	2	1	2	2	2
75°	0	0	0	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C05D010 EX4C059050 4LCSQWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	580.8	580.8	580.8	580.8	580.8
2.5°	581.0	580.0	579.8	579.5	580.0
5°	579.2	577.9	576.6	576.2	576.6
7.5°	574.3	573.0	570.7	570.2	570.6
10°	565.1	563.9	561.8	560.6	560.0
12.5°	553.0	551.0	549.0	547.6	546.3
15°	536.3	535.3	533.7	531.6	530.1
17.5°	513.2	514.5	515.5	511.2	507.3
20°	483.2	488.1	493.7	485.0	477.8
22.5°	436.3	450.5	464.8	448.3	432.3
25°	374.7	396.6	428.3	397.2	369.8
27.5°	302.8	330.5	380.6	330.7	298.8
30°	236.3	264.9	320.9	261.1	230.7
32.5°	181.5	202.8	250.7	199.6	177.6
35°	139.7	152.4	182.3	152.8	137.2
37.5°	108.6	115.0	122.6	112.8	105.4
40°	85.3	85.5	79.0	84.2	81.9
42.5°	63.2	63.0	48.6	61.4	61.8
45°	37.9	44.2	29.1	43.0	35.8
47.5°	18.0	25.0	17.5	23.6	16.7
50°	8.7	12.0	10.5	11.2	8.1
52.5°	5.9	6.1	6.0	5.9	5.6
55°	4.3	4.3	3.9	4.1	4.1
57.5°	3.2	3.2	2.8	3.1	3.1
60°	2.5	2.4	2.1	2.4	2.4
62.5°	1.9	1.9	1.6	1.9	1.9
65°	1.5	1.5	1.3	1.5	1.5
67.5°	1.2	1.2	0.9	1.2	1.1
70°	0.9	0.9	0.8	0.9	0.9
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5
77.5°	0.4	0.4	0.4	0.4	0.4
80°	0.3	0.3	0.4	0.4	0.4
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.1	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.3	0.3	0.3
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)