

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: **LD4C15D010 EX4C159027 4LCSQWLI**

Issue Date: 2/18/2022



**Test Information**

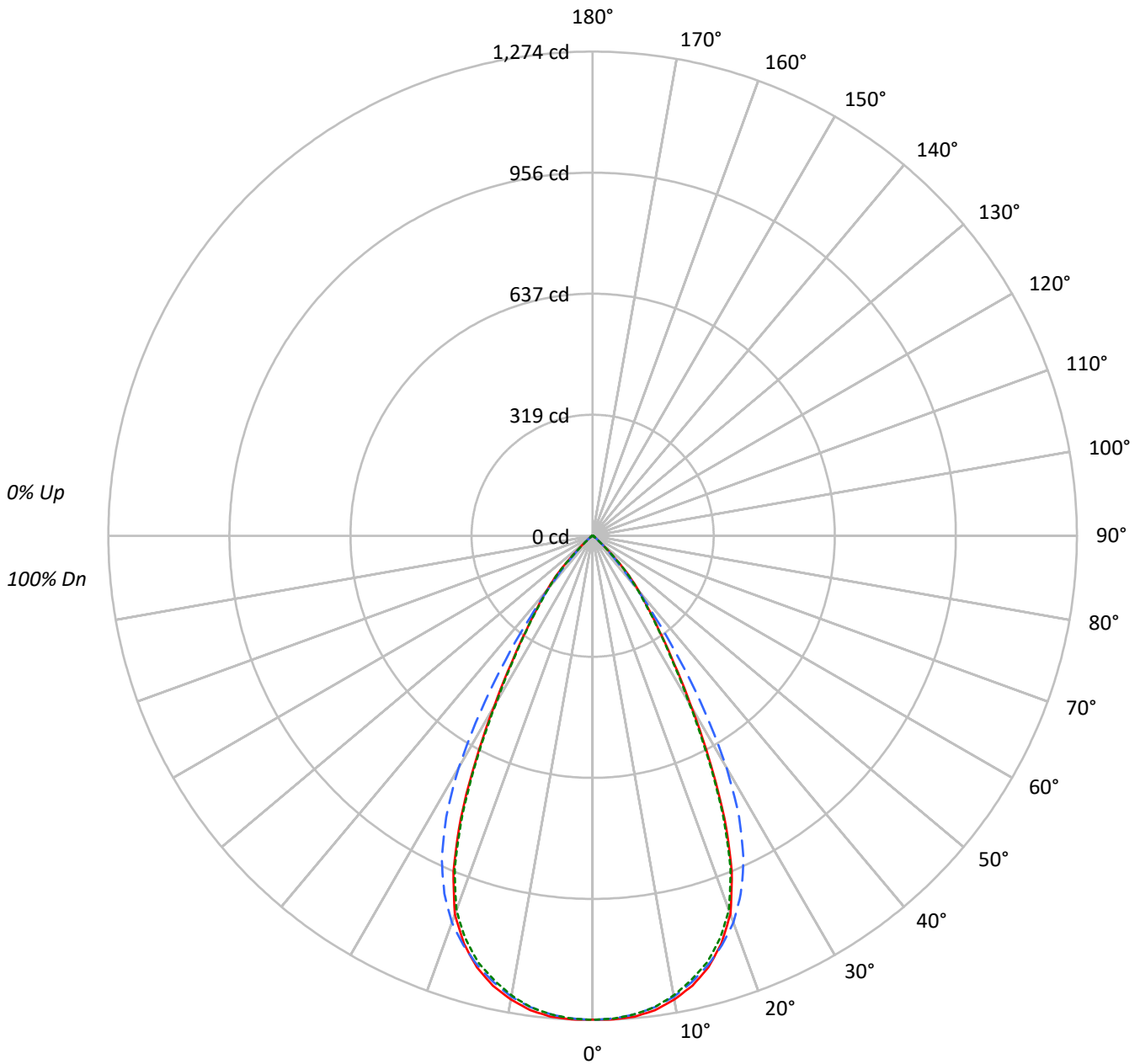
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C15D010 EX4C159027 4LCSQWLI  
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LCSQW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1140.0 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): 15.8  
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									
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	84	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°	122869	122869	122869
5°	122999	122428	122428
10°	121384	120669	120297
15°	117444	116884	116095
20°	108770	111142	107569
25°	87449	99969	86299
30°	57725	78381	56354
35°	36079	47069	35420
40°	23541	21816	22622
45°	11339	8706	10698
50°	2852	3468	2672
55°	1581	1430	1531
60°	1081	907	1023
65°	731	662	731
70°	564	508	564
75°	447	447	447
80°	333	500	500
85°	332	664	664



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	10.5
10°-20°	327.0	28.7
20°-30°	389.7	34.2
30°-40°	220.7	19.4
40°-50°	68.2	6.0
50°-60°	9.5	0.8
60°-70°	3.2	0.3
70°-80°	1.3	0.1
80°-90°	0.6	0.0
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°	836.5	73.4
0°-40°	1057.2	92.7
0°-60°	1135.0	99.6
0°-90°	1140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1270	1267	1264	1263	1264	120
15°	1176	1174	1170	1166	1162	328
25°	821	869	939	871	811	366
35°	306	334	400	335	301	199
45°	83	97	64	94	78	69
55°	9	9	8	9	9	9
65°	3	3	3	3	3	3
75°	1	1	1	1	1	1
85°	0	1	1	1	1	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1273.4	1273.4	1273.4	1273.4	1273.4
2.5°	1273.7	1271.6	1271.1	1270.5	1271.6
5°	1269.9	1267.0	1264.0	1263.2	1264.0
7.5°	1259.1	1256.1	1251.2	1250.0	1250.9
10°	1238.9	1236.2	1231.6	1228.9	1227.8
12.5°	1212.3	1207.9	1203.5	1200.6	1197.6
15°	1175.7	1173.6	1170.1	1165.5	1162.2
17.5°	1125.1	1128.0	1130.1	1120.7	1112.2
20°	1059.3	1070.1	1082.4	1063.4	1047.6
22.5°	956.6	987.6	1018.9	982.9	947.8
25°	821.4	869.4	939.0	870.9	810.6
27.5°	663.8	724.6	834.3	724.9	655.0
30°	518.1	580.7	703.5	572.5	505.8
32.5°	397.8	444.7	549.7	437.6	389.4
35°	306.3	334.1	399.6	335.0	300.7
37.5°	238.1	252.2	268.8	247.2	231.1
40°	186.9	187.5	173.2	184.6	179.6
42.5°	138.7	138.1	106.5	134.6	135.4
45°	83.1	96.8	63.8	94.2	78.4
47.5°	39.5	54.7	38.3	51.8	36.6
50°	19.0	26.3	23.1	24.6	17.8
52.5°	12.9	13.5	13.2	12.9	12.3
55°	9.4	9.4	8.5	9.1	9.1
57.5°	7.0	7.0	6.1	6.7	6.7
60°	5.6	5.3	4.7	5.3	5.3
62.5°	4.1	4.1	3.5	4.1	4.1
65°	3.2	3.2	2.9	3.2	3.2
67.5°	2.6	2.6	2.0	2.6	2.3
70°	2.0	2.0	1.8	2.0	2.0
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.2	1.2	1.2	1.2	1.2
77.5°	0.9	0.9	0.9	0.9	0.9
80°	0.6	0.6	0.9	0.9	0.9
82.5°	0.6	0.6	0.6	0.6	0.6
85°	0.3	0.6	0.6	0.6	0.6
87.5°	0.3	0.3	0.6	0.6	0.6
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)