

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

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: 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: -

Luminaire Equipment: Sample No. Condition Description

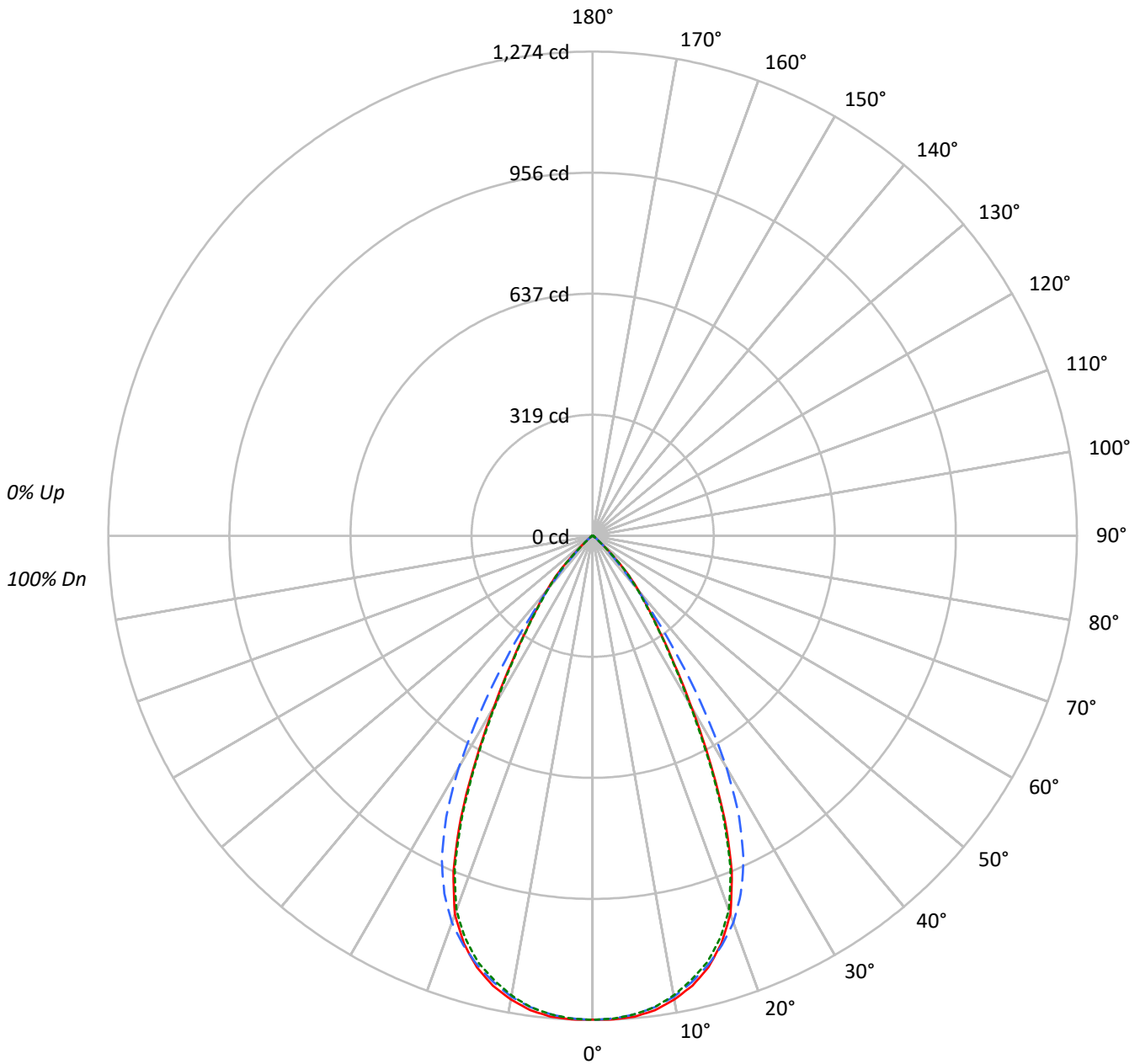
Summary

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_{in}): 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)