

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 EX4C159030 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 EX4C159030 4LCSQWLI
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

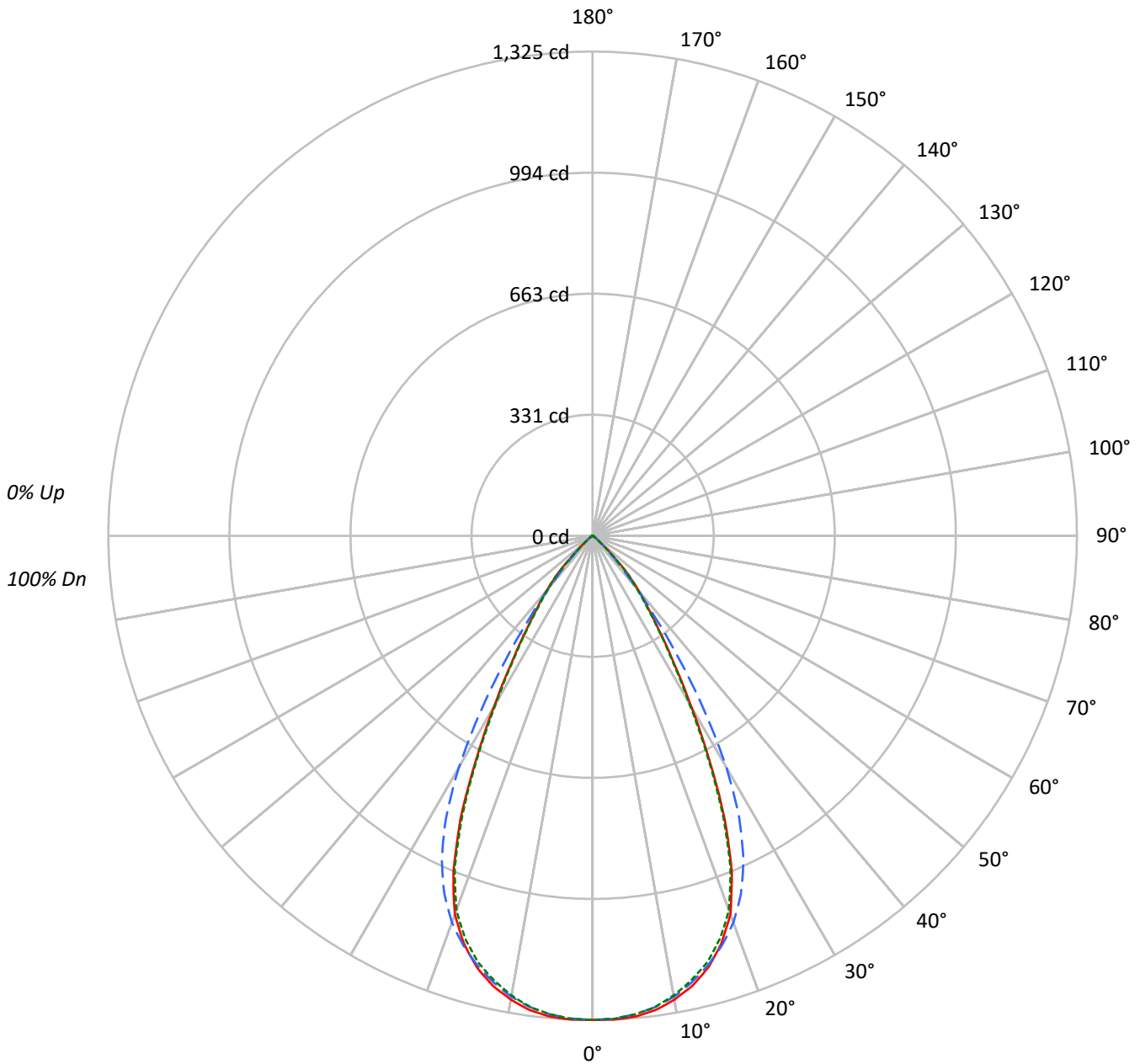
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1186.0 lumens
Efficiency: N/A
Efficacy: 75.1 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 (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	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°	127828	127828	127828
5°	127958	127368	127368
10°	126283	125538	125147
15°	122179	121609	120780
20°	113155	115629	111902
25°	90984	104004	89781
30°	60053	81545	58627
35°	37528	48966	36857
40°	24499	22698	23541
45°	11790	9047	11135
50°	2972	3603	2792
55°	1632	1480	1581
60°	1119	946	1061
65°	753	685	753
70°	592	508	592
75°	447	447	447
80°	333	500	500
85°	332	664	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	10.5
10°-20°	340.2	28.7
20°-30°	405.5	34.2
30°-40°	229.6	19.4
40°-50°	71.0	6.0
50°-60°	9.9	0.8
60°-70°	3.4	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°	870.3	73.4
0°-40°	1099.9	92.7
0°-60°	1180.7	99.6
0°-90°	1186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1321	1318	1315	1314	1315	125
15°	1223	1221	1217	1212	1209	341
25°	855	904	977	906	843	381
35°	319	348	416	348	313	207
45°	86	101	66	98	82	71
55°	10	10	9	9	9	10
65°	3	3	3	3	3	4
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°	1324.8	1324.8	1324.8	1324.8	1324.8
2.5°	1325.1	1323.0	1322.3	1321.7	1323.0
5°	1321.1	1318.1	1315.0	1314.1	1315.0
7.5°	1309.9	1306.8	1301.7	1300.4	1301.3
10°	1288.9	1286.1	1281.3	1278.5	1277.3
12.5°	1261.2	1256.6	1252.0	1249.0	1246.0
15°	1223.1	1221.0	1217.4	1212.5	1209.1
17.5°	1170.5	1173.5	1175.7	1165.9	1157.1
20°	1102.0	1113.3	1126.1	1106.3	1089.8
22.5°	995.2	1027.4	1060.0	1022.6	986.1
25°	854.6	904.5	976.9	906.0	843.3
27.5°	690.5	753.8	868.0	754.1	681.4
30°	539.0	604.1	731.9	595.6	526.2
32.5°	413.9	462.6	571.9	455.3	405.1
35°	318.6	347.6	415.7	348.5	312.9
37.5°	247.7	262.3	279.7	257.2	240.4
40°	194.5	195.1	180.2	192.0	186.9
42.5°	144.3	143.6	110.8	140.0	140.9
45°	86.4	100.7	66.3	98.0	81.6
47.5°	41.1	56.9	39.9	53.9	38.0
50°	19.8	27.4	24.0	25.6	18.6
52.5°	13.4	14.0	13.7	13.4	12.8
55°	9.7	9.7	8.8	9.4	9.4
57.5°	7.3	7.3	6.4	7.0	7.0
60°	5.8	5.5	4.9	5.5	5.5
62.5°	4.3	4.3	3.7	4.3	4.3
65°	3.3	3.3	3.0	3.3	3.3
67.5°	2.7	2.7	2.1	2.7	2.4
70°	2.1	2.1	1.8	2.1	2.1
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)