

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 EX4C259050 4LBSQLI**

Issue Date: 2/9/2022

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 (P209151)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EX4C259050 4LBSQLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

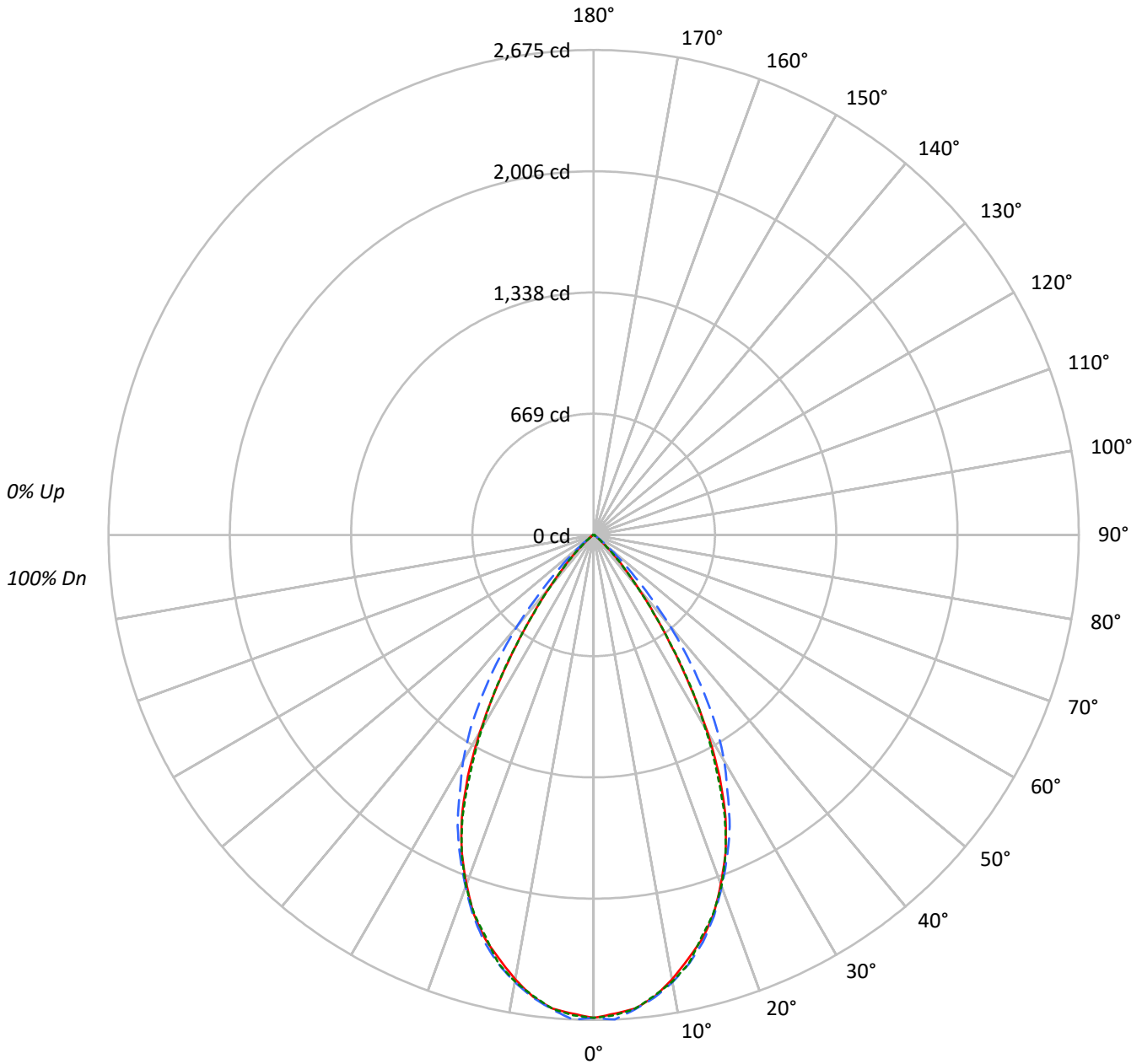
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2459.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.9 / 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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	77	71	67	76	71	67	74	70	66	73	69	66	64																			
7	83	73	67	63	81	73	67	63	71	66	62	70	65	62	69	65	62	60																			
8	79	69	63	59	77	68	62	58	67	62	58	66	61	58	65	61	58	56																			
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53																			
10	71	61	55	51	70	61	55	51	60	55	51	59	54	51	58	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	256998	256998	256998
5°	254047	254377	254047
10°	243885	245375	245051
15°	230562	232250	229384
20°	210415	211975	211462
25°	183224	188984	181957
30°	139325	160249	137253
35°	87696	124576	88497
40°	47322	82275	46466
45°	22392	40637	22160
50°	8391	15236	8391
55°	3987	4845	3701
60°	2605	2296	2605
65°	1553	1553	1553
70°	959	1439	959
75°	634	634	634
80°	945	945	945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	10.0
10°-20°	647.2	26.3
20°-30°	790.6	32.2
30°-40°	553.0	22.5
40°-50°	181.2	7.4
50°-60°	28.8	1.2
60°-70°	7.9	0.3
70°-80°	2.6	0.1
80°-90°	0.7	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°	1684.8	68.5
0°-40°	2237.7	91.0
0°-60°	2447.8	99.5
0°-90°	2459.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2459.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2664	2664	2664	2664	2664	
5°	2623	2624	2626	2610	2623	246
15°	2308	2317	2325	2310	2296	644
25°	1721	1747	1775	1743	1709	773
35°	744	879	1058	866	751	475
45°	164	202	298	200	162	138
55°	24	25	29	25	22	23
65°	7	8	7	8	7	8
75°	2	2	2	2	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5
2.5°	2643.2	2661.8	2656.7	2668.6	2668.6	2655.1	2658.4	2663.5	2670.2	2675.4	2634.7
5°	2622.9	2639.8	2624.5	2641.5	2631.3	2616.1	2641.5	2627.9	2636.4	2626.3	2633.0
7.5°	2568.7	2595.8	2565.4	2585.7	2578.9	2570.4	2580.5	2577.2	2582.3	2573.8	2555.2
10°	2489.2	2511.2	2490.9	2519.6	2506.1	2497.7	2506.1	2514.6	2512.9	2504.4	2514.6
12.5°	2397.8	2423.2	2413.0	2429.9	2414.7	2414.7	2435.0	2429.9	2431.7	2424.9	2436.7
15°	2308.1	2326.8	2311.5	2333.5	2326.8	2308.1	2316.6	2316.6	2330.2	2325.0	2311.5
17.5°	2196.5	2211.7	2194.7	2199.9	2193.1	2189.7	2225.2	2201.5	2215.0	2204.9	2206.6
20°	2049.2	2056.0	2050.9	2064.4	2056.0	2066.2	2062.8	2059.4	2059.4	2064.4	2052.6
22.5°	1900.3	1900.3	1905.4	1908.8	1915.6	1905.4	1925.7	1908.8	1910.4	1922.3	1918.9
25°	1721.0	1715.9	1727.7	1744.6	1751.4	1742.9	1770.0	1756.5	1766.6	1775.1	1756.5
27.5°	1502.7	1502.7	1514.5	1543.3	1548.3	1558.5	1595.7	1595.7	1609.2	1597.4	1611.0
30°	1250.5	1269.1	1284.3	1321.6	1333.4	1355.5	1394.3	1413.0	1443.4	1438.3	1431.6
32.5°	991.6	1017.0	1018.7	1057.6	1089.7	1127.0	1179.4	1223.4	1245.5	1260.6	1243.7
35°	744.5	759.8	773.3	800.4	854.5	903.6	951.0	1008.5	1047.5	1057.6	1042.4
37.5°	544.9	548.3	561.8	587.2	627.8	675.2	732.7	795.3	836.0	851.2	834.2
40°	375.7	379.0	385.8	407.8	441.7	475.5	521.2	585.5	622.7	653.2	631.2
42.5°	252.1	255.5	262.3	279.2	297.8	329.9	365.5	406.1	441.7	455.2	443.3
45°	164.1	164.1	167.5	179.4	189.6	214.9	240.3	265.7	289.3	297.8	289.3
47.5°	96.5	98.1	101.5	110.0	121.8	132.0	150.6	167.5	174.3	181.1	177.7
50°	55.9	55.9	60.9	66.0	74.4	81.2	88.0	94.7	98.1	101.5	98.1
52.5°	30.5	32.2	33.8	35.6	38.9	45.7	50.8	50.8	52.5	54.1	52.5
55°	23.7	23.7	23.7	23.7	25.4	25.4	25.4	27.1	27.1	28.8	27.1
57.5°	16.9	16.9	16.9	18.6	18.6	18.6	16.9	16.9	16.9	16.9	16.9
60°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	11.9	11.9	11.9	11.9
62.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
65°	6.8	6.8	8.5	8.5	8.5	8.5	8.5	6.8	6.8	6.8	6.8
67.5°	5.1	5.1	5.1	5.1	6.8	6.8	5.1	5.1	5.1	5.1	5.1
70°	3.4	3.4	3.4	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5	2663.5
2.5°	2663.5	2634.7	2638.1	2653.3	2644.8	2653.3	2651.7	2651.7
5°	2634.7	2626.3	2612.7	2607.6	2617.8	2639.8	2636.4	2622.9
7.5°	2580.5	2558.6	2573.8	2580.5	2572.1	2585.7	2592.4	2563.6
10°	2516.3	2507.8	2504.4	2507.8	2504.4	2518.0	2501.1	2501.1
12.5°	2424.9	2411.4	2411.4	2431.7	2419.8	2409.6	2423.2	2421.5
15°	2333.5	2306.4	2306.4	2313.2	2318.3	2311.5	2313.2	2296.3
17.5°	2198.1	2189.7	2177.8	2196.5	2201.5	2194.7	2199.9	2191.4
20°	2071.2	2071.2	2049.2	2057.7	2064.4	2069.5	2072.9	2059.4
22.5°	1908.8	1912.2	1896.9	1913.8	1918.9	1902.0	1905.4	1902.0
25°	1759.8	1758.2	1746.3	1739.5	1742.9	1736.2	1734.5	1709.1
27.5°	1595.7	1578.8	1553.4	1560.2	1531.4	1507.7	1507.7	1468.8
30°	1418.0	1389.3	1355.5	1321.6	1296.2	1269.1	1253.9	1231.9
32.5°	1209.9	1171.0	1128.7	1083.0	1054.2	1013.6	991.6	1003.5
35°	1003.5	945.9	888.4	842.7	798.7	775.0	747.9	751.3
37.5°	803.8	722.6	671.8	622.7	585.5	555.1	543.2	539.8
40°	587.2	522.9	472.1	436.6	411.2	387.5	374.0	368.9
42.5°	406.1	360.5	319.8	291.1	274.1	258.9	252.1	250.5
45°	264.0	236.9	209.9	189.6	176.0	165.9	164.1	162.4
47.5°	165.9	152.3	135.3	120.2	108.3	101.5	96.5	96.5
50°	94.7	89.7	81.2	72.8	66.0	62.6	57.5	55.9
52.5°	50.8	50.8	47.4	40.6	35.6	32.2	32.2	30.5
55°	27.1	27.1	25.4	25.4	23.7	23.7	23.7	22.0
57.5°	16.9	16.9	18.6	18.6	16.9	16.9	16.9	16.9
60°	11.9	13.5	13.5	13.5	13.5	13.5	13.5	13.5
62.5°	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
65°	6.8	8.5	8.5	8.5	8.5	6.8	6.8	6.8
67.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	5.1	3.4	3.4	3.4
72.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	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)