

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 EX4C259040 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 EX4C259040 4LBSQLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQ TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

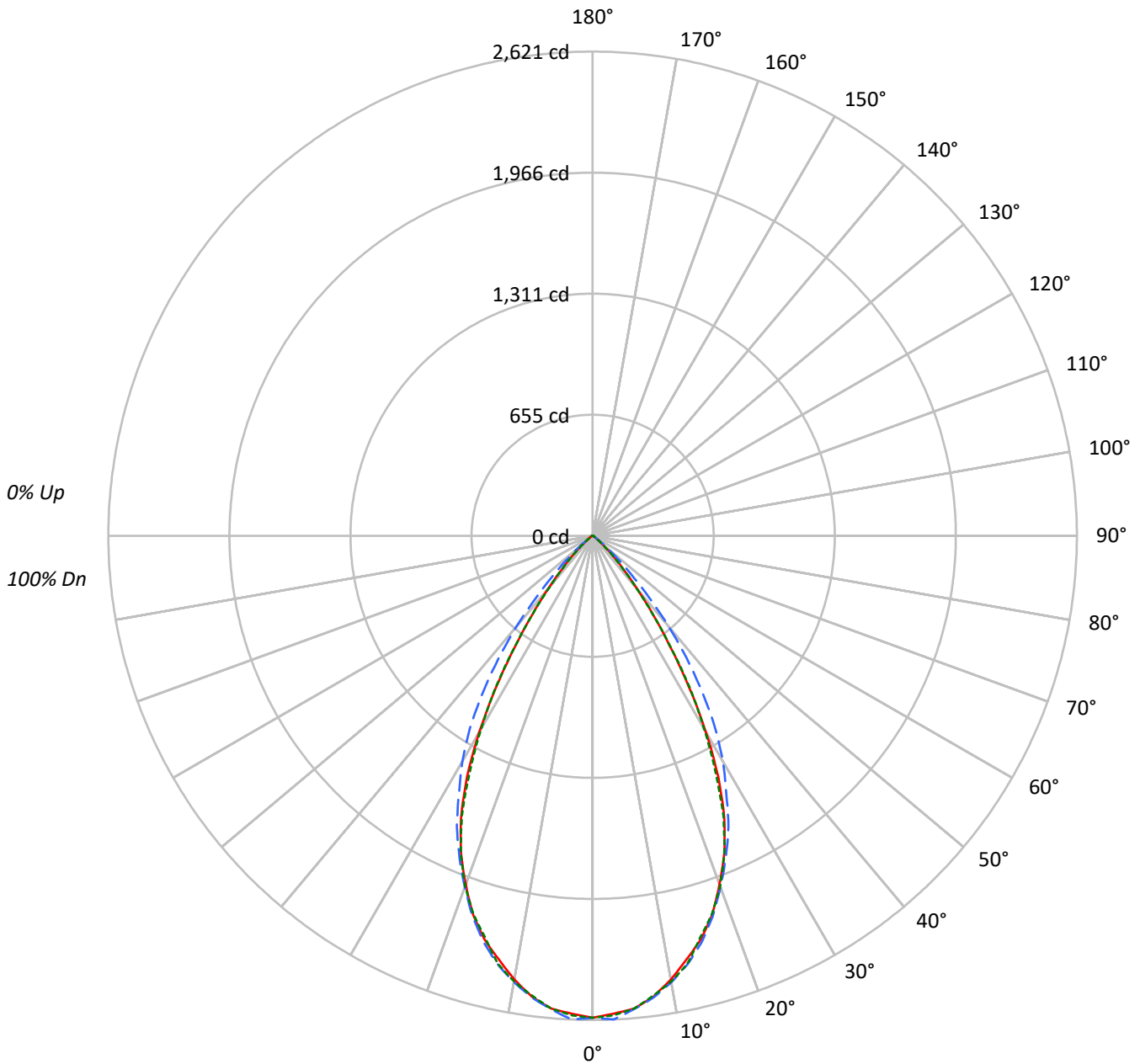
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2409.0 lumens
Efficiency: N/A
Efficacy: 76.5 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°	251768	251768	251768
5°	248875	249205	248875
10°	238928	240388	240064
15°	225877	227535	224719
20°	206143	207673	207160
25°	179498	185140	178252
30°	136495	156996	134468
35°	85917	122043	86694
40°	46352	80600	45521
45°	21942	39818	21710
50°	8211	14921	8211
55°	3903	4744	3634
60°	2567	2239	2567
65°	1507	1507	1507
70°	931	1411	931
75°	634	634	634
80°	945	945	945
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	10.0
10°-20°	634.0	26.3
20°-30°	774.5	32.2
30°-40°	541.7	22.5
40°-50°	177.5	7.4
50°-60°	28.2	1.2
60°-70°	7.7	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°	1650.5	68.5
0°-40°	2192.2	91.0
0°-60°	2398.0	99.5
0°-90°	2409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2570	2570	2573	2557	2570	241
15°	2261	2270	2278	2263	2250	631
25°	1686	1712	1739	1708	1674	757
35°	729	861	1036	848	736	465
45°	161	198	292	196	159	135
55°	23	25	28	25	22	23
65°	7	8	7	8	7	7
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°	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3
2.5°	2589.4	2607.7	2602.7	2614.3	2614.3	2601.1	2604.4	2609.3	2616.0	2621.0	2581.1
5°	2569.5	2586.1	2571.2	2587.7	2577.8	2562.9	2587.7	2574.5	2582.8	2572.9	2579.5
7.5°	2516.5	2543.0	2513.2	2533.1	2526.5	2518.1	2528.1	2524.8	2529.8	2521.4	2503.2
10°	2438.6	2460.2	2440.3	2468.4	2455.1	2446.9	2455.1	2463.5	2461.8	2453.5	2463.5
12.5°	2349.1	2373.9	2364.0	2380.5	2365.6	2365.6	2385.5	2380.5	2382.2	2375.6	2387.2
15°	2261.2	2279.5	2264.5	2286.1	2279.5	2261.2	2269.5	2269.5	2282.8	2277.8	2264.5
17.5°	2151.8	2166.7	2150.1	2155.1	2148.5	2145.2	2179.9	2156.7	2170.0	2160.1	2161.7
20°	2007.6	2014.2	2009.2	2022.5	2014.2	2024.2	2020.8	2017.5	2017.5	2022.5	2010.9
22.5°	1861.7	1861.7	1866.7	1870.0	1876.6	1866.7	1886.6	1870.0	1871.6	1883.2	1879.9
25°	1686.0	1681.0	1692.6	1709.2	1715.8	1707.5	1734.0	1720.7	1730.7	1739.0	1720.7
27.5°	1472.1	1472.1	1483.7	1511.9	1516.8	1526.8	1563.3	1563.3	1576.5	1564.9	1578.2
30°	1225.1	1243.3	1258.2	1294.7	1306.3	1327.9	1366.0	1384.3	1414.1	1409.1	1402.4
32.5°	971.5	996.3	998.0	1036.1	1067.6	1104.0	1155.5	1198.6	1220.1	1235.0	1218.4
35°	729.4	744.4	757.6	784.1	837.2	885.3	931.7	988.0	1026.2	1036.1	1021.2
37.5°	533.8	537.1	550.4	575.2	615.0	661.5	717.8	779.1	819.0	833.9	817.3
40°	368.0	371.3	378.0	399.5	432.7	465.8	510.6	573.6	610.1	639.9	618.3
42.5°	247.0	250.3	256.9	273.5	291.8	323.2	358.1	397.8	432.7	445.9	434.3
45°	160.8	160.8	164.1	175.8	185.7	210.5	235.4	260.2	283.5	291.8	283.5
47.5°	94.5	96.1	99.4	107.8	119.3	129.3	147.5	164.1	170.7	177.4	174.1
50°	54.7	54.7	59.7	64.7	72.9	79.6	86.2	92.8	96.1	99.4	96.1
52.5°	29.8	31.5	33.1	34.8	38.2	44.8	49.7	49.7	51.4	53.0	51.4
55°	23.2	23.2	23.2	23.2	24.9	24.9	24.9	26.5	26.5	28.2	26.5
57.5°	16.6	16.6	16.6	18.3	18.3	18.3	16.6	16.6	16.6	16.6	16.6
60°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	11.6	11.6	11.6	11.6
62.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
65°	6.6	6.6	8.3	8.3	8.3	8.3	8.3	6.6	6.6	6.6	6.6
67.5°	5.0	5.0	5.0	5.0	6.6	6.6	5.0	5.0	5.0	5.0	5.0
70°	3.3	3.3	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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°	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3	2609.3
2.5°	2609.3	2581.1	2584.4	2599.4	2591.1	2599.4	2597.8	2597.8
5°	2581.1	2572.9	2559.6	2554.6	2564.5	2586.1	2582.8	2569.5
7.5°	2528.1	2506.6	2521.4	2528.1	2519.8	2533.1	2539.7	2511.5
10°	2465.1	2456.8	2453.5	2456.8	2453.5	2466.8	2450.2	2450.2
12.5°	2375.6	2362.3	2362.3	2382.2	2370.6	2360.6	2373.9	2372.3
15°	2286.1	2259.5	2259.5	2266.1	2271.1	2264.5	2266.1	2249.6
17.5°	2153.4	2145.2	2133.5	2151.8	2156.7	2150.1	2155.1	2146.8
20°	2029.1	2029.1	2007.6	2015.8	2022.5	2027.5	2030.8	2017.5
22.5°	1870.0	1873.3	1858.3	1874.9	1879.9	1863.3	1866.7	1863.3
25°	1724.1	1722.4	1710.8	1704.2	1707.5	1700.9	1699.2	1674.3
27.5°	1563.3	1546.7	1521.9	1528.5	1500.3	1477.1	1477.1	1438.9
30°	1389.2	1361.0	1327.9	1294.7	1269.9	1243.3	1228.4	1206.9
32.5°	1185.3	1147.2	1105.7	1061.0	1032.8	993.0	971.5	983.1
35°	983.1	926.7	870.3	825.6	782.4	759.2	732.7	736.0
37.5°	787.4	707.9	658.2	610.1	573.6	543.8	532.1	528.8
40°	575.2	512.2	462.5	427.7	402.9	379.7	366.4	361.4
42.5°	397.8	353.1	313.3	285.1	268.6	253.6	247.0	245.4
45°	258.6	232.1	205.6	185.7	172.4	162.5	160.8	159.1
47.5°	162.5	149.2	132.6	117.7	106.1	99.4	94.5	94.5
50°	92.8	87.9	79.6	71.3	64.7	61.4	56.4	54.7
52.5°	49.7	49.7	46.4	39.8	34.8	31.5	31.5	29.8
55°	26.5	26.5	24.9	24.9	23.2	23.2	23.2	21.6
57.5°	16.6	16.6	18.3	18.3	16.6	16.6	16.6	16.6
60°	11.6	13.3	13.3	13.3	13.3	13.3	13.3	13.3
62.5°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
65°	6.6	8.3	8.3	8.3	8.3	6.6	6.6	6.6
67.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
70°	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)