

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



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: -

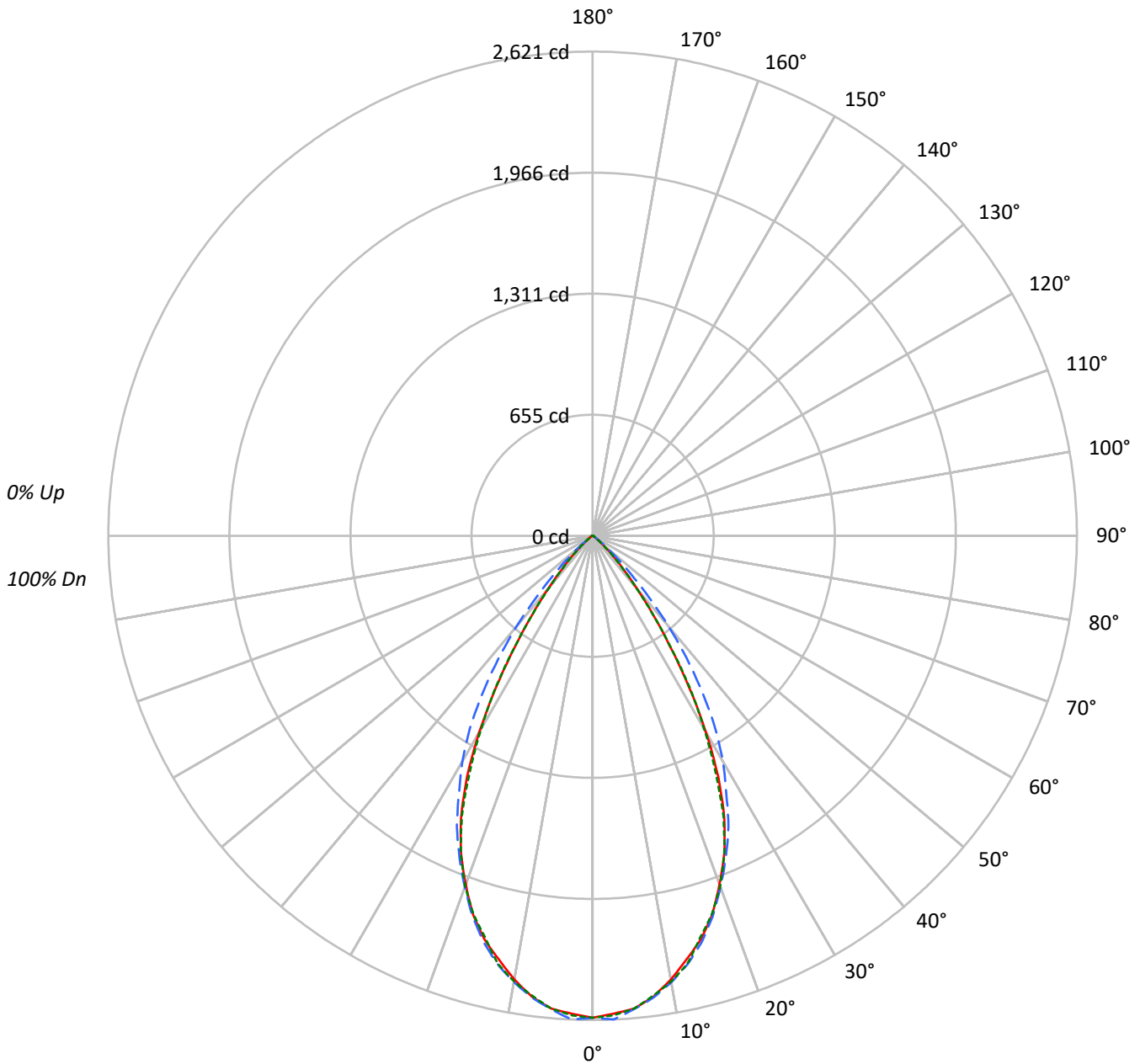
Summary

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 (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	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)