

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 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: LD4C25D010 EX4C259050 4LCSQWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

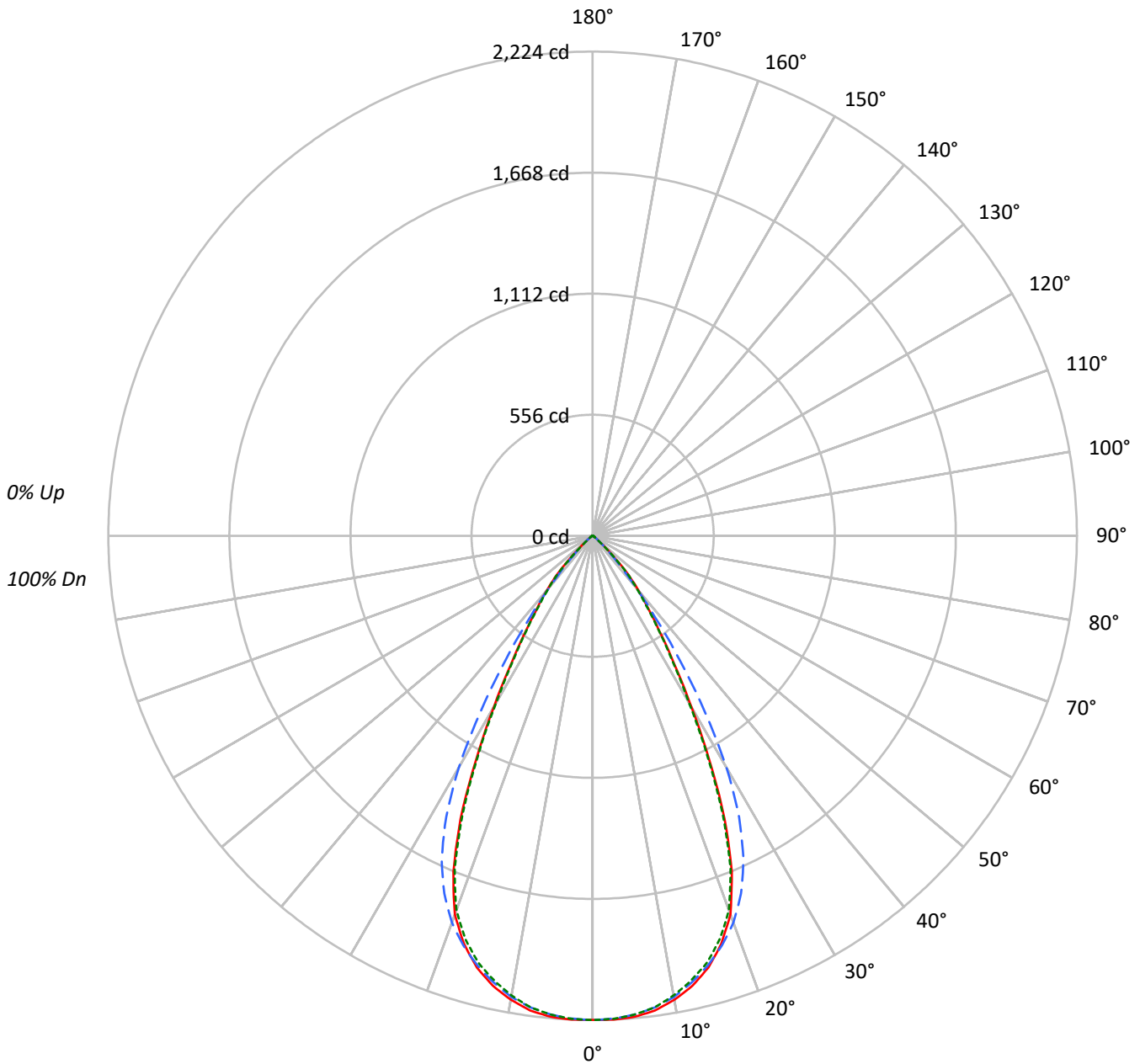
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1991.0 lumens
Efficiency: N/A
Efficacy: 63.2 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): 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	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°	214591	214591	214591
5°	214820	213823	213823
10°	211994	210740	210093
15°	205110	204141	202762
20°	189960	194109	187866
25°	152733	174600	150721
30°	100809	136897	98425
35°	63007	82206	61864
40°	41125	38102	39513
45°	19800	15201	18681
50°	4984	6064	4683
55°	2742	2490	2658
60°	1872	1582	1775
65°	1279	1164	1279
70°	1016	875	1016
75°	746	746	746
80°	556	833	833
85°	554	1107	1107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.2	10.5
10°-20°	571.2	28.7
20°-30°	680.7	34.2
30°-40°	385.4	19.4
40°-50°	119.2	6.0
50°-60°	16.6	0.8
60°-70°	5.7	0.3
70°-80°	2.2	0.1
80°-90°	0.9	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°	1461.0	73.4
0°-40°	1846.4	92.7
0°-60°	1982.2	99.6
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2224	2224	2224	2224	2224	
5°	2218	2213	2208	2206	2208	210
15°	2053	2050	2044	2036	2030	573
25°	1435	1518	1640	1521	1416	640
35°	535	584	698	585	525	348
45°	145	169	111	164	137	120
55°	16	16	15	16	16	16
65°	6	6	5	6	6	6
75°	2	2	2	2	2	2
85°	0	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2224.0	2224.0	2224.0	2224.0	2224.0
2.5°	2224.5	2220.9	2219.9	2218.9	2220.9
5°	2217.9	2212.7	2207.6	2206.1	2207.6
7.5°	2198.9	2193.8	2185.2	2183.1	2184.6
10°	2163.7	2159.1	2150.9	2146.3	2144.3
12.5°	2117.2	2109.5	2101.9	2096.8	2091.7
15°	2053.3	2049.8	2043.6	2035.5	2029.8
17.5°	1965.0	1970.1	1973.6	1957.3	1942.5
20°	1850.0	1868.9	1890.4	1857.2	1829.6
22.5°	1670.7	1724.8	1779.5	1716.7	1655.3
25°	1434.6	1518.4	1640.0	1521.0	1415.7
27.5°	1159.3	1265.5	1457.1	1266.0	1143.9
30°	904.8	1014.2	1228.7	999.8	883.4
32.5°	694.8	776.6	960.0	764.3	680.0
35°	534.9	583.5	697.9	585.0	525.2
37.5°	415.9	440.4	469.5	431.7	403.6
40°	326.5	327.5	302.5	322.4	313.7
42.5°	242.2	241.1	186.0	235.0	236.6
45°	145.1	169.1	111.4	164.5	136.9
47.5°	69.0	95.5	66.9	90.4	63.9
50°	33.2	46.0	40.4	42.9	31.2
52.5°	22.5	23.5	23.0	22.5	21.5
55°	16.3	16.3	14.8	15.8	15.8
57.5°	12.3	12.3	10.7	11.8	11.8
60°	9.7	9.2	8.2	9.2	9.2
62.5°	7.2	7.2	6.1	7.2	7.2
65°	5.6	5.6	5.1	5.6	5.6
67.5°	4.6	4.6	3.6	4.6	4.1
70°	3.6	3.6	3.1	3.6	3.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.0	2.0	2.0	2.0	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.5	1.5	1.5
82.5°	1.0	1.0	1.0	1.0	1.0
85°	0.5	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	1.0	1.0	1.0
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)