

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 EX4C259027 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 EX4C259027 4LCSQWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

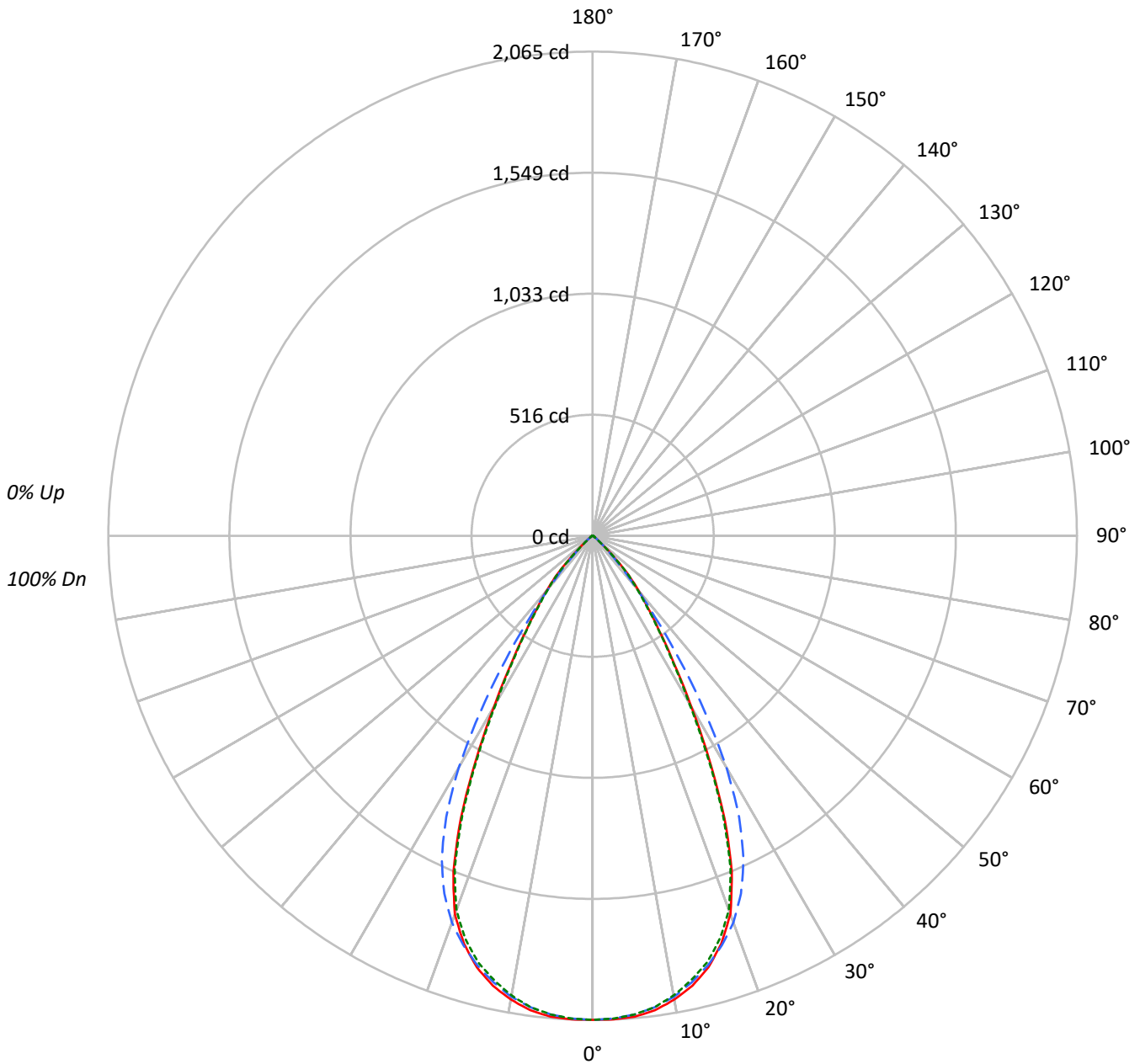
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1848.0 lumens
Efficiency: N/A
Efficacy: 58.7 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°	199182	199182	199182
5°	199391	198471	198471
10°	196768	195602	195004
15°	190385	189486	188198
20°	176314	180165	174373
25°	141767	162059	139893
30°	93567	127070	91350
35°	58483	76305	57423
40°	38165	35356	36679
45°	18381	14110	17344
50°	4623	5629	4338
55°	2557	2321	2473
60°	1737	1467	1640
65°	1187	1073	1187
70°	931	790	931
75°	708	708	708
80°	500	778	778
85°	554	996	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	10.5
10°-20°	530.2	28.7
20°-30°	631.8	34.2
30°-40°	357.8	19.4
40°-50°	110.6	6.0
50°-60°	15.4	0.8
60°-70°	5.2	0.3
70°-80°	2.1	0.1
80°-90°	0.8	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°	1356.1	73.4
0°-40°	1713.8	92.7
0°-60°	1839.8	99.6
0°-90°	1848.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2064	2064	2064	2064	2064	
5°	2059	2054	2049	2048	2049	195
15°	1906	1902	1897	1889	1884	531
25°	1332	1409	1522	1412	1314	594
35°	496	542	648	543	488	323
45°	135	157	103	153	127	111
55°	15	15	14	15	15	15
65°	5	5	5	5	5	5
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°	2064.3	2064.3	2064.3	2064.3	2064.3
2.5°	2064.7	2061.4	2060.5	2059.5	2061.4
5°	2058.6	2053.8	2049.1	2047.7	2049.1
7.5°	2041.0	2036.3	2028.2	2026.3	2027.7
10°	2008.3	2004.0	1996.4	1992.2	1990.3
12.5°	1965.1	1958.0	1950.9	1946.2	1941.4
15°	1905.9	1902.5	1896.9	1889.3	1884.0
17.5°	1823.8	1828.6	1831.9	1816.7	1803.0
20°	1717.1	1734.7	1754.6	1723.8	1698.2
22.5°	1550.7	1600.9	1651.7	1593.4	1536.5
25°	1331.6	1409.4	1522.2	1411.7	1314.0
27.5°	1076.0	1174.6	1352.5	1175.1	1061.8
30°	839.8	941.3	1140.5	928.0	819.9
32.5°	644.9	720.8	891.0	709.4	631.2
35°	496.5	541.6	647.8	543.0	487.5
37.5°	386.0	408.8	435.8	400.7	374.6
40°	303.0	304.0	280.7	299.2	291.2
42.5°	224.8	223.8	172.6	218.1	219.6
45°	134.7	157.0	103.4	152.7	127.1
47.5°	64.0	88.7	62.1	83.9	59.3
50°	30.8	42.7	37.5	39.8	28.9
52.5°	20.9	21.8	21.3	20.9	19.9
55°	15.2	15.2	13.8	14.7	14.7
57.5°	11.4	11.4	10.0	10.9	10.9
60°	9.0	8.5	7.6	8.5	8.5
62.5°	6.6	6.6	5.7	6.6	6.6
65°	5.2	5.2	4.7	5.2	5.2
67.5°	4.3	4.3	3.3	4.3	3.8
70°	3.3	3.3	2.8	3.3	3.3
72.5°	2.4	2.4	2.4	2.4	2.4
75°	1.9	1.9	1.9	1.9	1.9
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	1.4	1.4	1.4
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.9	0.9	0.9	0.9
87.5°	0.5	0.5	0.9	0.9	0.9
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)