

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: **LD4C30D010 EX4C309030 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: LD4C30D010 EX4C309030 4LCSQWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

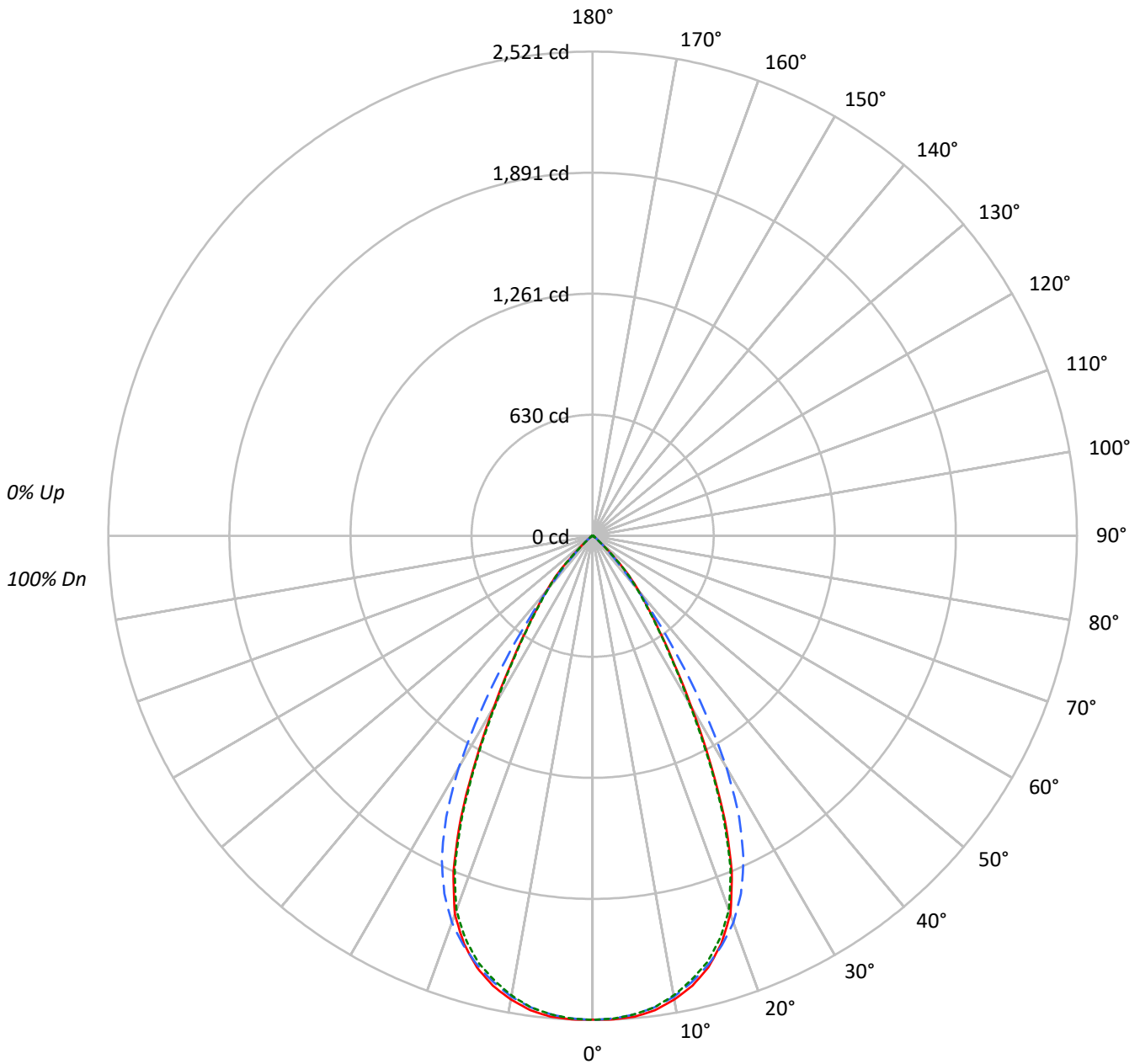
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2256.0 lumens
Efficiency: N/A
Efficacy: 71.4 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): 31.6
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°	243152	243152	243152
5°	243403	242289	242289
10°	240211	238790	238056
15°	232410	231311	229753
20°	215241	219943	212869
25°	173067	197842	170789
30°	114223	155124	111516
35°	71393	93149	70098
40°	46592	43166	44778
45°	22433	17221	21164
50°	5644	6860	5299
55°	3112	2826	3011
60°	2123	1795	2007
65°	1461	1324	1461
70°	1157	987	1157
75°	857	857	857
80°	667	945	945
85°	664	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	10.5
10°-20°	647.2	28.7
20°-30°	771.3	34.2
30°-40°	436.7	19.4
40°-50°	135.0	6.0
50°-60°	18.8	0.8
60°-70°	6.4	0.3
70°-80°	2.5	0.1
80°-90°	1.1	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°	1655.5	73.4
0°-40°	2092.2	92.7
0°-60°	2246.0	99.6
0°-90°	2256.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2256.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2520	2520	2520	2520	2520	
5°	2513	2507	2502	2500	2502	238
15°	2327	2323	2316	2306	2300	649
25°	1626	1720	1858	1723	1604	725
35°	606	661	791	663	595	394
45°	164	192	126	186	155	136
55°	18	18	17	18	18	18
65°	6	6	6	6	6	7
75°	2	2	2	2	2	3
85°	1	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°	2520.0	2520.0	2520.0	2520.0	2520.0
2.5°	2520.6	2516.5	2515.4	2514.2	2516.5
5°	2513.0	2507.3	2501.5	2499.7	2501.5
7.5°	2491.6	2485.8	2476.0	2473.7	2475.4
10°	2451.7	2446.5	2437.2	2432.0	2429.7
12.5°	2399.0	2390.3	2381.6	2375.8	2370.1
15°	2326.6	2322.6	2315.6	2306.4	2300.0
17.5°	2226.5	2232.3	2236.3	2217.8	2201.0
20°	2096.2	2117.7	2142.0	2104.3	2073.1
22.5°	1893.0	1954.4	2016.3	1945.1	1875.7
25°	1625.6	1720.5	1858.3	1723.4	1604.2
27.5°	1313.5	1434.0	1651.1	1434.5	1296.2
30°	1025.2	1149.1	1392.3	1132.9	1000.9
32.5°	787.3	879.9	1087.8	866.0	770.5
35°	606.1	661.1	790.8	662.9	595.1
37.5°	471.2	499.0	532.0	489.2	457.3
40°	369.9	371.1	342.7	365.3	355.5
42.5°	274.4	273.2	210.7	266.3	268.0
45°	164.4	191.6	126.2	186.4	155.1
47.5°	78.2	108.3	75.8	102.5	72.4
50°	37.6	52.1	45.7	48.6	35.3
52.5°	25.5	26.6	26.1	25.5	24.3
55°	18.5	18.5	16.8	17.9	17.9
57.5°	13.9	13.9	12.2	13.3	13.3
60°	11.0	10.4	9.3	10.4	10.4
62.5°	8.1	8.1	6.9	8.1	8.1
65°	6.4	6.4	5.8	6.4	6.4
67.5°	5.2	5.2	4.1	5.2	4.6
70°	4.1	4.1	3.5	4.1	4.1
72.5°	2.9	2.9	2.9	2.9	2.9
75°	2.3	2.3	2.3	2.3	2.3
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.2	1.2	1.7	1.7	1.7
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	1.2	1.2	1.2
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)