

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 EX4C309035 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 EX4C309035 4LCSQWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

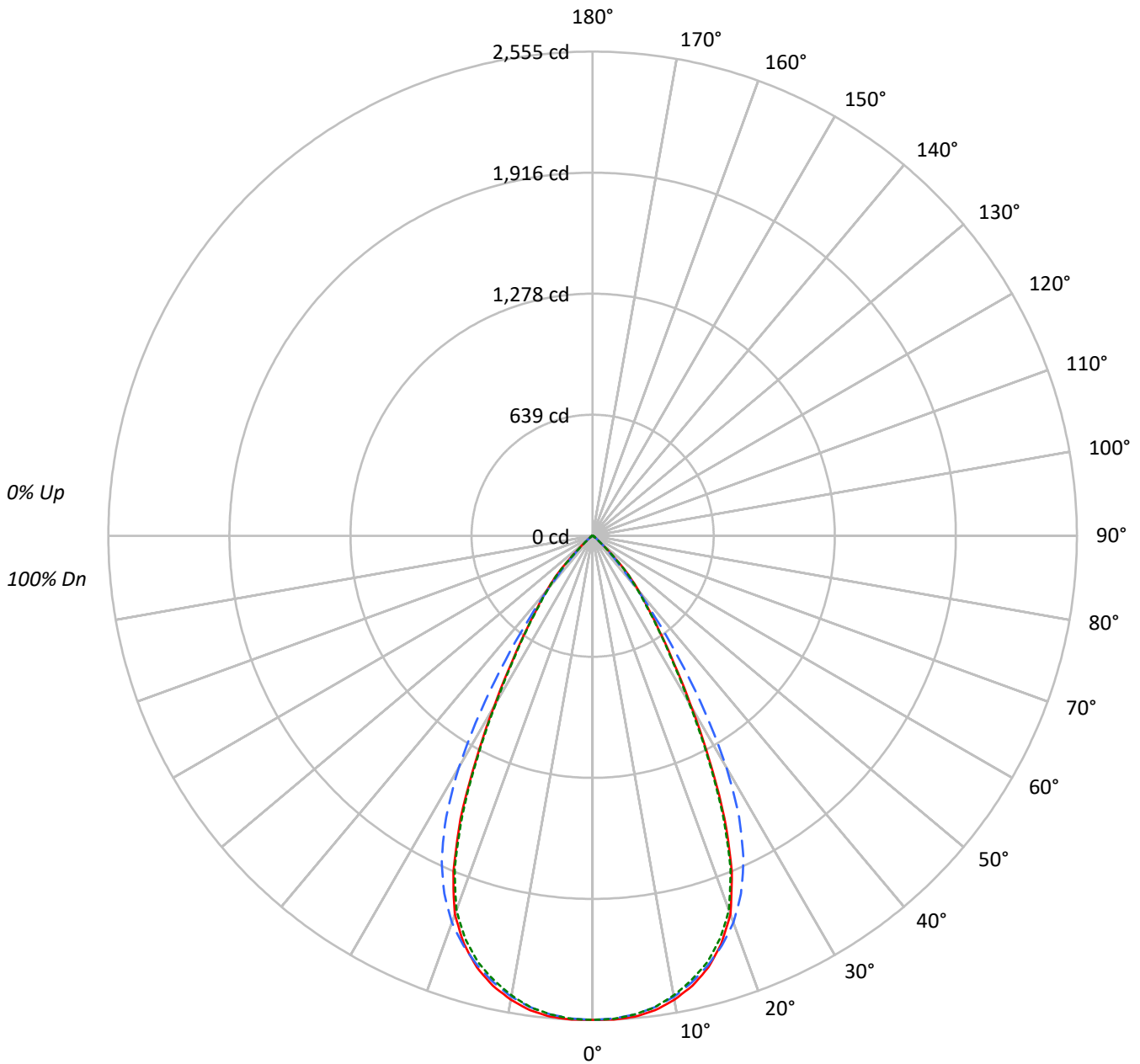
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 72.4 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°	246491	246491	246491
5°	246754	245611	245611
10°	243513	242073	241328
15°	235607	234498	232910
20°	218198	222962	215795
25°	175442	200556	173131
30°	115794	157252	113054
35°	72371	94433	71063
40°	47234	43758	45382
45°	22747	17453	21465
50°	5719	6965	5374
55°	3163	2860	3062
60°	2161	1814	2046
65°	1484	1347	1484
70°	1157	987	1157
75°	857	857	857
80°	667	1000	1000
85°	664	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	10.5
10°-20°	656.1	28.7
20°-30°	781.9	34.2
30°-40°	442.7	19.4
40°-50°	136.9	6.0
50°-60°	19.0	0.8
60°-70°	6.5	0.3
70°-80°	2.6	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°	1678.2	73.4
0°-40°	2121.0	92.7
0°-60°	2276.9	99.6
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2548	2542	2536	2534	2536	241
15°	2359	2354	2348	2338	2332	658
25°	1648	1744	1884	1747	1626	735
35°	614	670	802	672	603	400
45°	167	194	128	189	157	138
55°	19	19	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°	2554.6	2554.6	2554.6	2554.6	2554.6
2.5°	2555.2	2551.1	2549.9	2548.8	2551.1
5°	2547.6	2541.7	2535.8	2534.1	2535.8
7.5°	2525.9	2520.0	2510.0	2507.7	2509.4
10°	2485.4	2480.1	2470.7	2465.4	2463.1
12.5°	2432.0	2423.2	2414.4	2408.5	2402.6
15°	2358.6	2354.5	2347.5	2338.1	2331.6
17.5°	2257.1	2262.9	2267.1	2248.3	2231.3
20°	2125.0	2146.8	2171.4	2133.3	2101.6
22.5°	1919.0	1981.3	2044.0	1971.9	1901.4
25°	1647.9	1744.2	1883.8	1747.1	1626.2
27.5°	1331.6	1453.7	1673.7	1454.3	1314.0
30°	1039.3	1164.9	1411.4	1148.5	1014.7
32.5°	798.1	892.0	1102.7	877.9	781.1
35°	614.4	670.2	801.7	672.0	603.3
37.5°	477.7	505.9	539.3	495.9	463.6
40°	375.0	376.2	347.4	370.3	360.3
42.5°	278.2	277.0	213.6	270.0	271.7
45°	166.7	194.3	127.9	189.0	157.3
47.5°	79.2	109.7	76.9	103.9	73.4
50°	38.1	52.8	46.4	49.3	35.8
52.5°	25.8	27.0	26.4	25.8	24.6
55°	18.8	18.8	17.0	18.2	18.2
57.5°	14.1	14.1	12.3	13.5	13.5
60°	11.2	10.6	9.4	10.6	10.6
62.5°	8.2	8.2	7.0	8.2	8.2
65°	6.5	6.5	5.9	6.5	6.5
67.5°	5.3	5.3	4.1	5.3	4.7
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°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.8	1.8	1.8
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)