

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 EX4C309050 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 EX4C309050 4LCSQWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

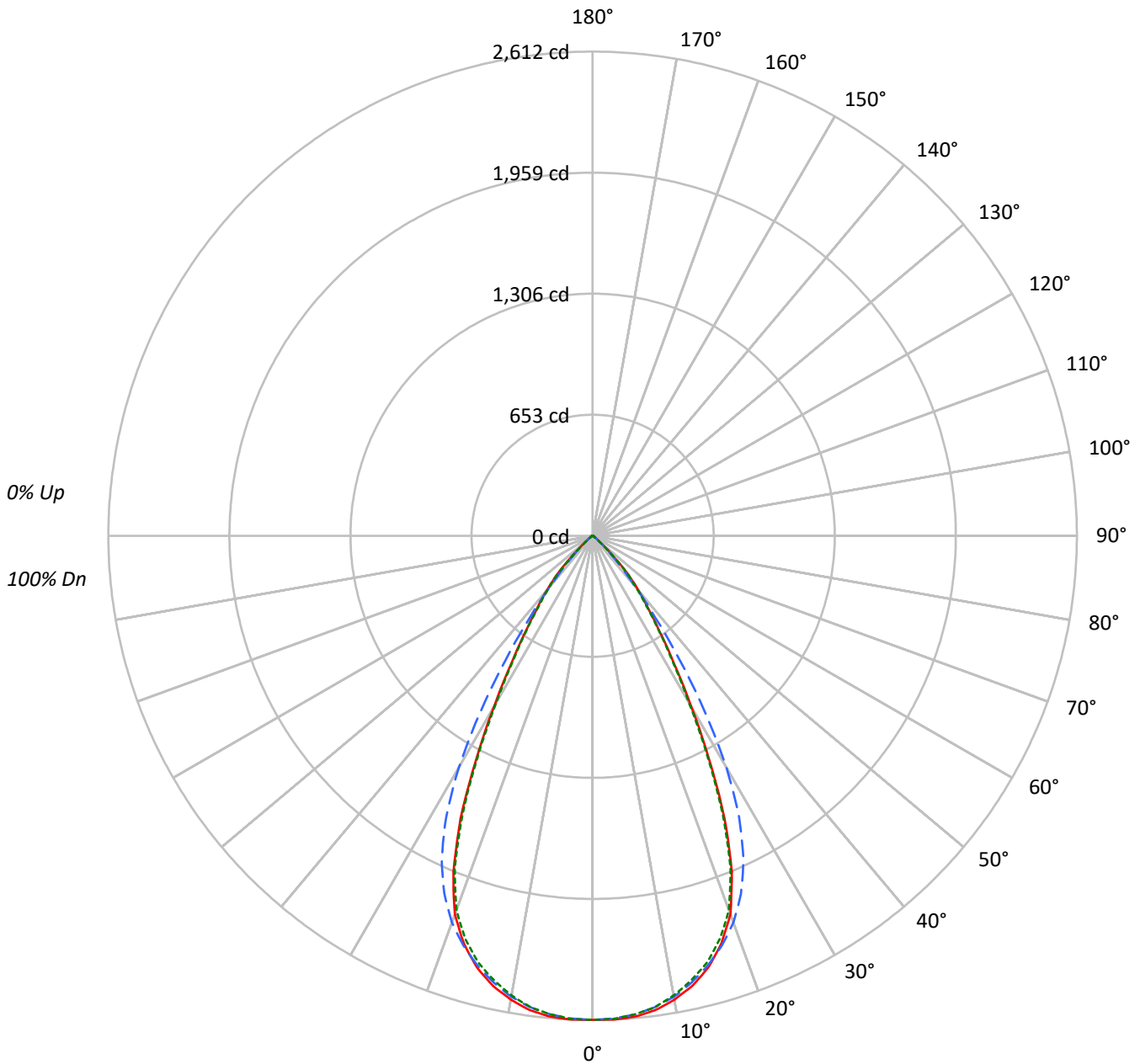
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2338.0 lumens
Efficiency: N/A
Efficacy: 74.0 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 (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	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°	251990	251990	251990
5°	252256	251093	251093
10°	248941	247471	246707
15°	240861	239722	238104
20°	223065	227932	220601
25°	179359	205028	176996
30°	118379	160762	115572
35°	73985	96530	72654
40°	48292	44740	46403
45°	23252	17848	21942
50°	5854	7115	5494
55°	3230	2927	3129
60°	2200	1853	2084
65°	1507	1370	1507
70°	1185	1016	1185
75°	895	895	895
80°	667	1000	1000
85°	664	1329	1329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	10.5
10°-20°	670.7	28.7
20°-30°	799.3	34.2
30°-40°	452.6	19.4
40°-50°	139.9	6.0
50°-60°	19.4	0.8
60°-70°	6.6	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°	1715.6	73.4
0°-40°	2168.2	92.7
0°-60°	2327.6	99.6
0°-90°	2338.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2338.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2612	2612	2612	2612	2612	
5°	2604	2598	2592	2591	2592	247
15°	2411	2407	2400	2390	2384	672
25°	1685	1783	1926	1786	1662	751
35°	628	685	820	687	617	409
45°	170	199	131	193	161	141
55°	19	19	17	19	19	19
65°	7	7	6	7	7	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°	2611.6	2611.6	2611.6	2611.6	2611.6
2.5°	2612.2	2608.0	2606.8	2605.6	2608.0
5°	2604.4	2598.4	2592.4	2590.6	2592.4
7.5°	2582.2	2576.2	2566.0	2563.6	2565.4
10°	2540.8	2535.4	2525.8	2520.4	2518.0
12.5°	2486.2	2477.2	2468.2	2462.2	2456.2
15°	2411.2	2407.0	2399.8	2390.2	2383.6
17.5°	2307.4	2313.4	2317.6	2298.4	2281.0
20°	2172.4	2194.6	2219.8	2180.8	2148.4
22.5°	1961.8	2025.4	2089.6	2015.8	1943.8
25°	1684.7	1783.1	1925.8	1786.1	1662.5
27.5°	1361.3	1486.1	1711.1	1486.7	1343.3
30°	1062.5	1190.9	1442.9	1174.1	1037.3
32.5°	815.9	911.9	1127.3	897.5	798.5
35°	628.1	685.1	819.5	686.9	616.8
37.5°	488.4	517.2	551.4	507.0	474.0
40°	383.4	384.6	355.2	378.6	368.4
42.5°	284.4	283.2	218.4	276.0	277.8
45°	170.4	198.6	130.8	193.2	160.8
47.5°	81.0	112.2	78.6	106.2	75.0
50°	39.0	54.0	47.4	50.4	36.6
52.5°	26.4	27.6	27.0	26.4	25.2
55°	19.2	19.2	17.4	18.6	18.6
57.5°	14.4	14.4	12.6	13.8	13.8
60°	11.4	10.8	9.6	10.8	10.8
62.5°	8.4	8.4	7.2	8.4	8.4
65°	6.6	6.6	6.0	6.6	6.6
67.5°	5.4	5.4	4.2	5.4	4.8
70°	4.2	4.2	3.6	4.2	4.2
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.4	2.4	2.4	2.4	2.4
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)