

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: **LD4C40D010 EX4C409040 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: LD4C40D010 EX4C409040 4LCSQWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

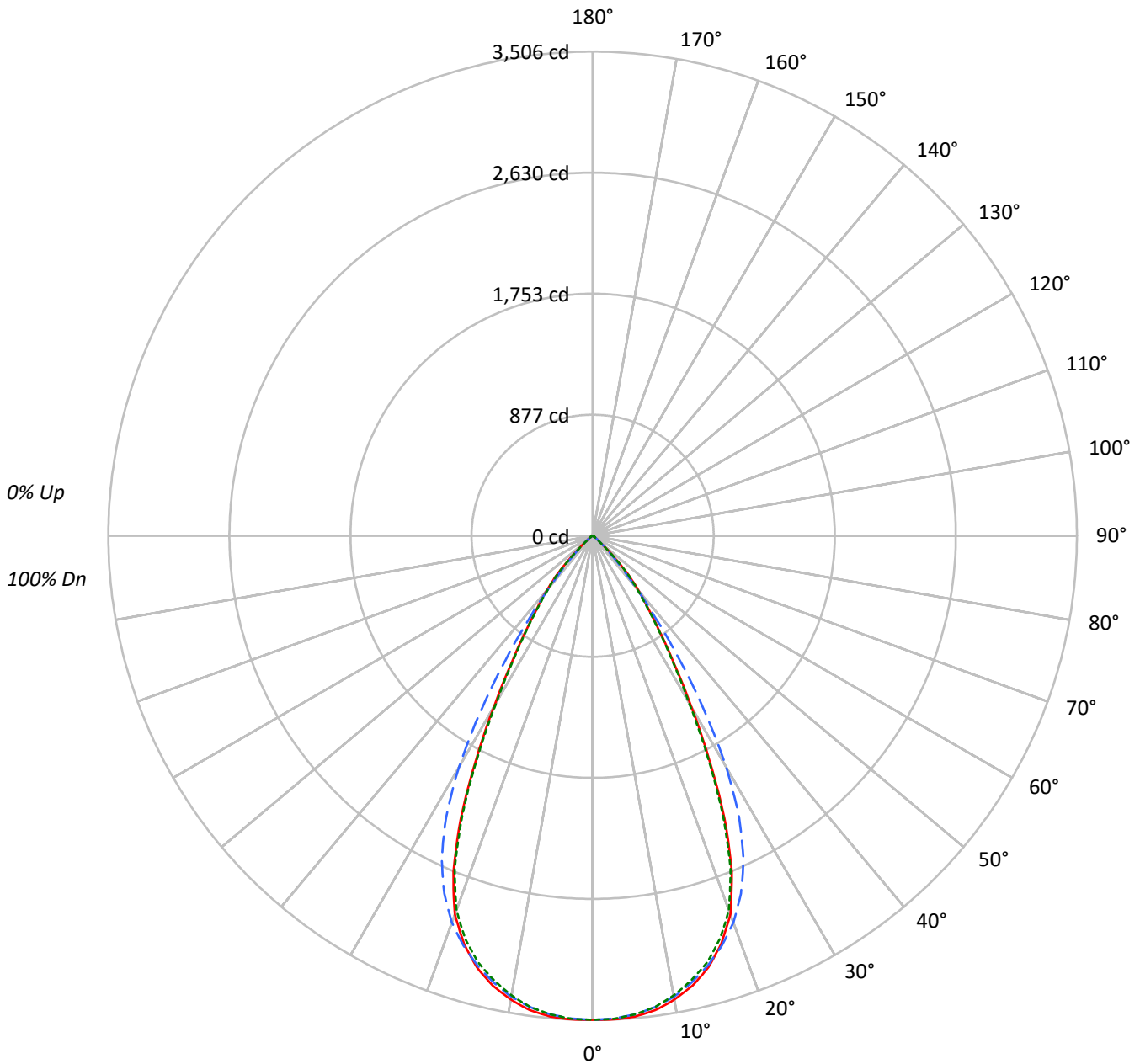
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3138.0 lumens
Efficiency: N/A
Efficacy: 66.8 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): 47
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°	338213	338213	338213
5°	338565	337006	337006
10°	334122	332153	331124
15°	323283	321754	319577
20°	299398	305929	296092
25°	240725	275187	237552
30°	158890	215768	155124
35°	99310	129570	97508
40°	64805	60044	62273
45°	31207	23948	29447
50°	7851	9547	7370
55°	4340	3936	4206
60°	2953	2489	2798
65°	2032	1849	2032
70°	1580	1354	1580
75°	1193	1193	1193
80°	889	1334	1334
85°	886	1771	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.6	10.5
10°-20°	900.2	28.7
20°-30°	1072.8	34.2
30°-40°	607.5	19.4
40°-50°	187.8	6.0
50°-60°	26.1	0.8
60°-70°	8.9	0.3
70°-80°	3.5	0.1
80°-90°	1.5	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°	2302.7	73.4
0°-40°	2910.2	92.7
0°-60°	3124.1	99.6
0°-90°	3138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3505	3505	3505	3505	3505	
5°	3496	3488	3479	3477	3479	331
15°	3236	3231	3221	3208	3199	902
25°	2261	2393	2585	2397	2231	1008
35°	843	920	1100	922	828	549
45°	229	266	176	259	216	189
55°	26	26	23	25	25	25
65°	9	9	8	9	9	9
75°	3	3	3	3	3	3
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3505.2	3505.2	3505.2	3505.2	3505.2
2.5°	3506.0	3500.4	3498.8	3497.2	3500.4
5°	3495.5	3487.5	3479.4	3477.0	3479.4
7.5°	3465.7	3457.7	3444.0	3440.8	3443.2
10°	3410.2	3402.9	3390.1	3382.8	3379.6
12.5°	3336.9	3324.8	3312.8	3304.7	3296.6
15°	3236.3	3230.6	3221.0	3208.1	3199.2
17.5°	3096.9	3105.0	3110.6	3084.9	3061.5
20°	2915.8	2945.6	2979.4	2927.0	2883.6
22.5°	2633.1	2718.5	2804.6	2705.6	2609.0
25°	2261.1	2393.2	2584.8	2397.2	2231.3
27.5°	1827.1	1994.6	2296.5	1995.4	1802.9
30°	1426.1	1598.4	1936.6	1575.9	1392.3
32.5°	1095.1	1224.0	1513.0	1204.6	1071.8
35°	843.1	919.6	1100.0	922.0	827.8
37.5°	655.5	694.1	740.0	680.4	636.1
40°	514.5	516.2	476.7	508.1	494.4
42.5°	381.7	380.1	293.1	370.4	372.8
45°	228.7	266.5	175.5	259.3	215.8
47.5°	108.7	150.6	105.5	142.5	100.7
50°	52.3	72.5	63.6	67.6	49.1
52.5°	35.4	37.0	36.2	35.4	33.8
55°	25.8	25.8	23.4	25.0	25.0
57.5°	19.3	19.3	16.9	18.5	18.5
60°	15.3	14.5	12.9	14.5	14.5
62.5°	11.3	11.3	9.7	11.3	11.3
65°	8.9	8.9	8.1	8.9	8.9
67.5°	7.2	7.2	5.6	7.2	6.4
70°	5.6	5.6	4.8	5.6	5.6
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	2.4	2.4	2.4
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	1.6	1.6	1.6
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)