

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 EX4C409035 4LCSQWH**

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 (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EX4C409035 4LCSQWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

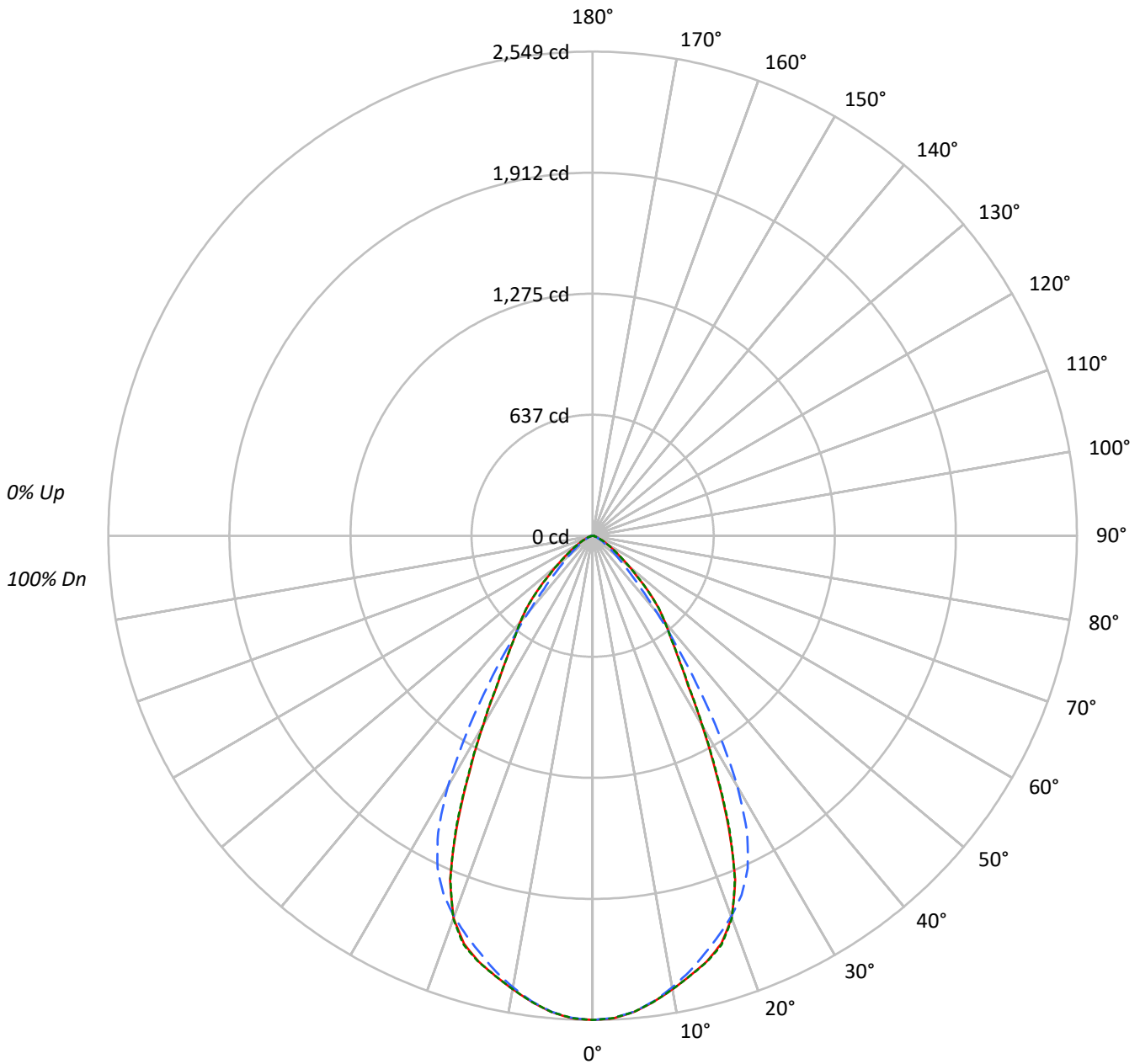
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2698.0 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																			
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																			
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77																			
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	78	72	68	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	63	72	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52																			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49																			
10	68	58	52	48	67	57	51	47	57	51	47	56	51	47	55	50	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	245960	245960	245960
5°	243703	243548	243626
10°	237468	236527	237468
15°	231751	227575	231991
20°	219728	218906	220139
25°	180243	205656	181180
30°	128529	169909	128708
35°	92702	112585	92984
40°	74315	65410	74315
45°	56711	38180	56274
50°	37407	24378	37287
55°	25149	16368	24880
60°	16905	11173	17059
65°	11553	7900	11370
70°	7702	5671	7702
75°	5107	4213	5107
80°	3556	3112	3556
85°	2657	2657	2657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	8.8
10°-20°	646.1	23.9
20°-30°	807.8	29.9
30°-40°	543.4	20.1
40°-50°	286.9	10.6
50°-60°	116.6	4.3
60°-70°	43.2	1.6
70°-80°	14.0	0.5
80°-90°	3.0	0.1
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°	1690.8	62.7
0°-40°	2234.2	82.8
0°-60°	2637.8	97.8
0°-90°	2698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2698.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2549	2549	2549	2549	2549	
5°	2516	2514	2514	2514	2515	237
15°	2320	2301	2278	2300	2322	650
25°	1693	1788	1932	1791	1702	762
35°	787	826	956	828	789	506
45°	416	395	280	393	412	319
55°	150	125	97	125	148	139
65°	51	41	35	41	50	52
75°	14	12	11	12	14	16
85°	2	2	2	2	2	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2549.1	2549.1	2549.1	2549.1	2549.1
2.5°	2542.7	2541.1	2540.3	2540.3	2541.1
5°	2516.1	2513.7	2514.5	2514.5	2515.3
7.5°	2473.5	2472.7	2470.3	2473.5	2473.5
10°	2423.7	2419.7	2414.1	2420.5	2423.7
12.5°	2372.2	2360.2	2350.5	2360.2	2372.2
15°	2320.0	2300.7	2278.2	2299.9	2322.4
17.5°	2251.7	2232.4	2207.5	2236.4	2258.1
20°	2139.9	2141.5	2131.9	2139.9	2143.9
22.5°	1960.7	1996.8	2047.5	1997.6	1955.0
25°	1693.0	1787.8	1931.7	1791.0	1701.8
27.5°	1406.0	1526.6	1762.1	1533.8	1414.8
30°	1153.6	1260.5	1525.0	1267.7	1155.2
32.5°	934.1	1013.7	1239.6	1023.3	944.6
35°	787.0	826.4	955.8	828.0	789.4
37.5°	674.5	674.5	709.8	677.7	671.2
40°	590.0	564.3	519.3	563.5	590.0
42.5°	511.3	472.7	377.0	471.1	512.9
45°	415.6	394.7	279.8	393.1	412.4
47.5°	319.1	304.7	210.6	303.1	321.6
50°	249.2	226.7	162.4	225.1	248.4
52.5°	191.3	167.2	125.4	167.2	189.7
55°	149.5	125.4	97.3	125.4	147.9
57.5°	115.0	95.7	74.0	94.1	114.2
60°	87.6	71.5	57.9	71.5	88.4
62.5°	66.7	54.7	44.2	53.9	65.9
65°	50.6	41.0	34.6	41.0	49.8
67.5°	37.0	30.5	26.5	30.5	37.8
70°	27.3	23.3	20.1	22.5	27.3
72.5°	20.1	16.9	15.3	16.9	20.1
75°	13.7	12.1	11.3	12.1	13.7
77.5°	9.6	8.8	8.0	8.8	9.6
80°	6.4	5.6	5.6	6.4	6.4
82.5°	4.0	4.0	4.0	4.0	4.0
85°	2.4	2.4	2.4	2.4	2.4
87.5°	1.6	1.6	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)