

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

Luminaire Equipment: Sample No. Condition Description

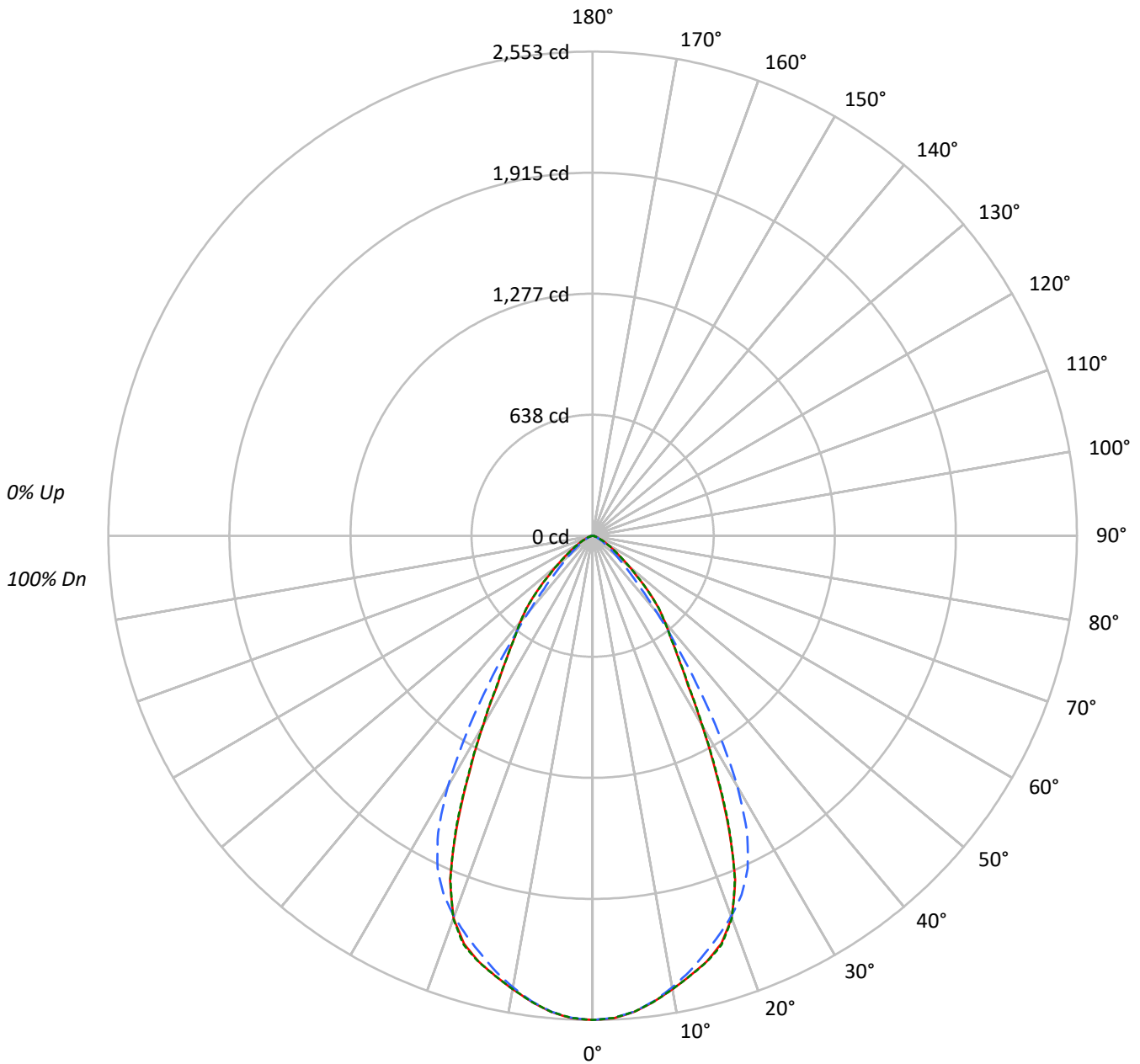
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.0 lumens
Efficiency: N/A
Efficacy: 57.5 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°	246326	246326	246326
5°	244071	243916	243994
10°	237821	236870	237821
15°	232091	227915	232340
20°	220056	219225	220467
25°	180509	205965	181446
30°	128719	170154	128897
35°	92843	112750	93126
40°	74428	65510	74428
45°	56793	38235	56356
50°	37467	24408	37347
55°	25183	16385	24914
60°	16943	11193	17098
65°	11575	7900	11393
70°	7730	5671	7730
75°	5107	4213	5107
80°	3556	3112	3556
85°	2657	2657	2657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	8.8
10°-20°	647.1	23.9
20°-30°	809.0	29.9
30°-40°	544.2	20.1
40°-50°	287.3	10.6
50°-60°	116.8	4.3
60°-70°	43.3	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°	1693.4	62.7
0°-40°	2237.6	82.8
0°-60°	2641.7	97.8
0°-90°	2702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2553	2553	2553	2553	2553	
5°	2520	2518	2518	2518	2519	237
15°	2323	2304	2282	2303	2326	651
25°	1696	1790	1935	1794	1704	763
35°	788	828	957	829	791	507
45°	416	395	280	394	413	319
55°	150	126	97	126	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°	2552.9	2552.9	2552.9	2552.9	2552.9
2.5°	2546.4	2544.8	2544.0	2544.0	2544.8
5°	2519.9	2517.5	2518.3	2518.3	2519.1
7.5°	2477.2	2476.4	2474.0	2477.2	2477.2
10°	2427.3	2423.3	2417.6	2424.1	2427.3
12.5°	2375.8	2363.7	2354.0	2363.7	2375.8
15°	2323.4	2304.1	2281.6	2303.3	2325.9
17.5°	2255.0	2235.7	2210.7	2239.7	2261.4
20°	2143.1	2144.7	2135.0	2143.1	2147.1
22.5°	1963.6	1999.8	2050.5	2000.6	1957.9
25°	1695.5	1790.5	1934.6	1793.7	1704.3
27.5°	1408.1	1528.8	1764.7	1536.1	1416.9
30°	1155.3	1262.4	1527.2	1269.6	1156.9
32.5°	935.5	1015.2	1241.4	1024.9	946.0
35°	788.2	827.6	957.2	829.2	790.6
37.5°	675.5	675.5	710.9	678.7	672.2
40°	590.9	565.2	520.1	564.4	590.9
42.5°	512.0	473.4	377.6	471.8	513.6
45°	416.2	395.3	280.2	393.7	413.0
47.5°	319.6	305.1	210.9	303.5	322.0
50°	249.6	227.0	162.6	225.4	248.8
52.5°	191.6	167.5	125.6	167.5	190.0
55°	149.7	125.6	97.4	125.6	148.1
57.5°	115.1	95.8	74.1	94.2	114.3
60°	87.8	71.7	58.0	71.7	88.6
62.5°	66.8	54.7	44.3	53.9	66.0
65°	50.7	41.1	34.6	41.1	49.9
67.5°	37.0	30.6	26.6	30.6	37.8
70°	27.4	23.3	20.1	22.5	27.4
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°	9.7	8.9	8.1	8.9	9.7
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)