

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 EX4C409050 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 EX4C409050 4LCSQWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

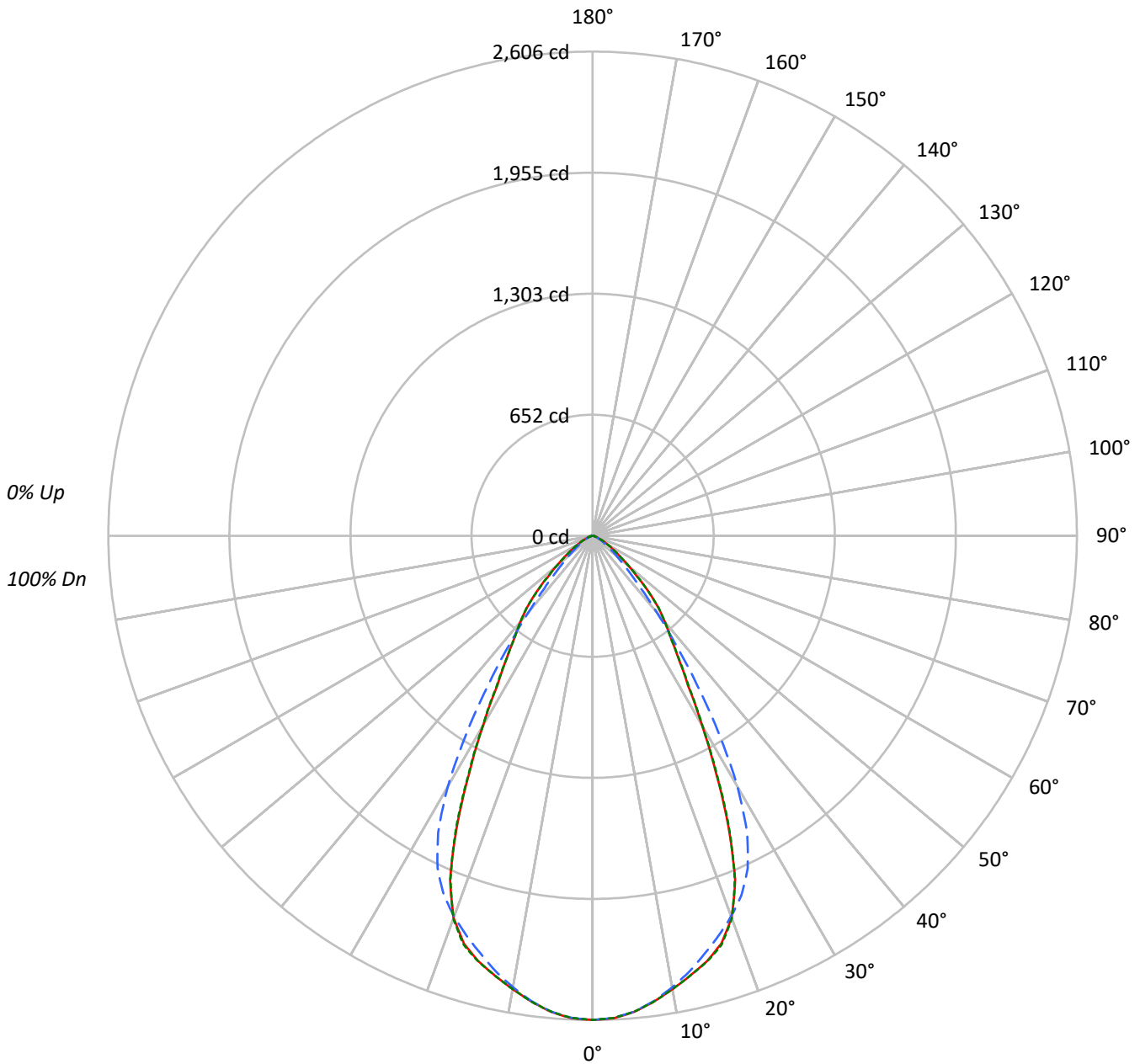
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 58.7 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C40D010 EX4C409050 4LCSQWH

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°	251431	251431	251431
5°	249127	248972	249050
10°	242749	241779	242749
15°	236905	232640	237155
20°	224615	223773	225036
25°	184246	210234	185215
30°	131381	173686	131571
35°	94763	115094	95057
40°	75977	66871	75977
45°	57966	39026	57530
50°	38233	24918	38113
55°	25705	16721	25435
60°	17291	11424	17445
65°	11827	8059	11621
70°	7871	5783	7871
75°	5219	4287	5219
80°	3667	3223	3667
85°	2768	2768	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	8.8
10°-20°	660.5	23.9
20°-30°	825.7	29.9
30°-40°	555.5	20.1
40°-50°	293.3	10.6
50°-60°	119.2	4.3
60°-70°	44.2	1.6
70°-80°	14.3	0.5
80°-90°	3.1	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°	1728.5	62.7
0°-40°	2283.9	82.8
0°-60°	2696.4	97.8
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2606	2606	2606	2606	2606	
5°	2572	2570	2570	2570	2571	242
15°	2372	2352	2329	2351	2374	664
25°	1731	1828	1975	1831	1740	779
35°	804	845	977	846	807	518
45°	425	404	286	402	422	326
55°	153	128	99	128	151	142
65°	52	42	35	42	51	53
75°	14	12	12	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°	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2599.2	2597.6	2596.8	2596.8	2597.6
5°	2572.1	2569.6	2570.5	2570.5	2571.3
7.5°	2528.5	2527.7	2525.3	2528.5	2528.5
10°	2477.6	2473.5	2467.7	2474.3	2477.6
12.5°	2425.0	2412.7	2402.8	2412.7	2425.0
15°	2371.6	2351.9	2328.9	2351.0	2374.1
17.5°	2301.7	2282.0	2256.5	2286.1	2308.3
20°	2187.5	2189.2	2179.3	2187.5	2191.6
22.5°	2004.3	2041.2	2093.0	2042.1	1998.5
25°	1730.6	1827.6	1974.7	1830.9	1739.7
27.5°	1437.3	1560.5	1801.3	1567.9	1446.3
30°	1179.2	1288.5	1558.9	1295.9	1180.9
32.5°	954.9	1036.2	1267.1	1046.1	965.6
35°	804.5	844.8	977.1	846.4	807.0
37.5°	689.5	689.5	725.6	692.7	686.2
40°	603.2	576.9	530.9	576.1	603.2
42.5°	522.6	483.2	385.4	481.5	524.3
45°	424.8	403.5	286.0	401.8	421.6
47.5°	326.2	311.4	215.3	309.8	328.7
50°	254.7	231.7	166.0	230.1	253.9
52.5°	195.6	170.9	128.2	170.9	193.9
55°	152.8	128.2	99.4	128.2	151.2
57.5°	117.5	97.8	75.6	96.1	116.7
60°	89.6	73.1	59.2	73.1	90.4
62.5°	68.2	55.9	45.2	55.1	67.4
65°	51.8	41.9	35.3	41.9	50.9
67.5°	37.8	31.2	27.1	31.2	38.6
70°	27.9	23.8	20.5	23.0	27.9
72.5°	20.5	17.3	15.6	17.3	20.5
75°	14.0	12.3	11.5	12.3	14.0
77.5°	9.9	9.0	8.2	9.0	9.9
80°	6.6	5.8	5.8	6.6	6.6
82.5°	4.1	4.1	4.1	4.1	4.1
85°	2.5	2.5	2.5	2.5	2.5
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)