

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 EX4C409027 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 EX4C409027 4LCSQWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

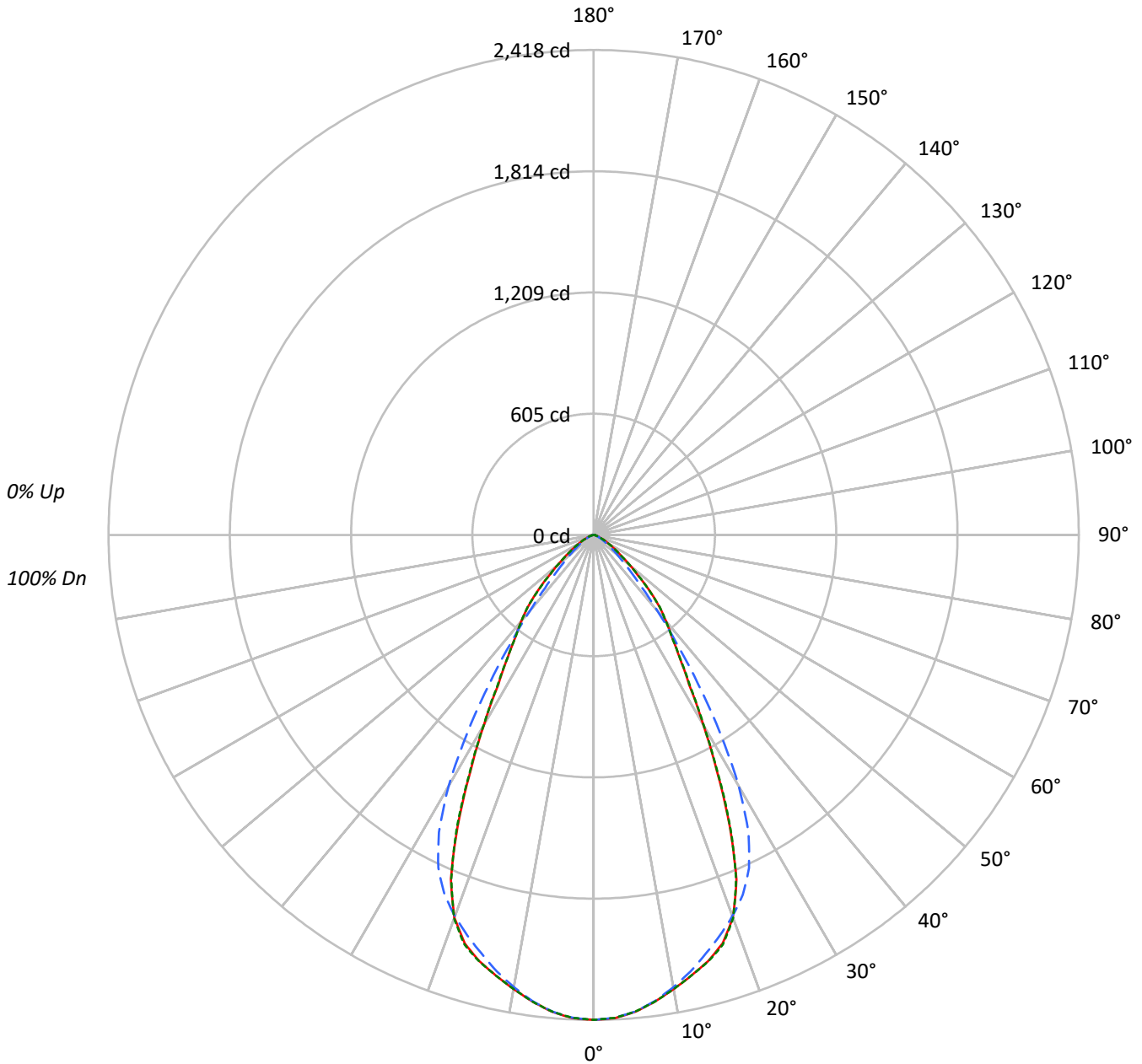
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559.0 lumens
Efficiency: N/A
Efficacy: 54.4 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°	233291	233291	233291
5°	231150	231005	231083
10°	225230	224339	225230
15°	219814	215848	220044
20°	208412	207632	208802
25°	170949	195063	171843
30°	121900	161152	122078
35°	87931	106789	88190
40°	70486	62047	70486
45°	53791	36202	53368
50°	35486	23117	35366
55°	23854	15527	23602
60°	16036	10594	16191
65°	10959	7489	10799
70°	7307	5388	7307
75°	4846	3989	4846
80°	3390	2945	3390
85°	2546	2546	2546



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	8.8
10°-20°	612.8	23.9
20°-30°	766.1	29.9
30°-40°	515.4	20.1
40°-50°	272.1	10.6
50°-60°	110.6	4.3
60°-70°	41.0	1.6
70°-80°	13.2	0.5
80°-90°	2.8	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°	1603.7	62.7
0°-40°	2119.1	82.8
0°-60°	2501.9	97.8
0°-90°	2559.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2386	2384	2385	2385	2386	225
15°	2200	2182	2161	2181	2203	616
25°	1606	1696	1832	1699	1614	723
35°	746	784	907	785	749	480
45°	394	374	265	373	391	302
55°	142	119	92	119	140	132
65°	48	39	33	39	47	49
75°	13	11	11	11	13	15
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°	2417.8	2417.8	2417.8	2417.8	2417.8
2.5°	2411.7	2410.1	2409.4	2409.4	2410.1
5°	2386.5	2384.2	2385.0	2385.0	2385.8
7.5°	2346.1	2345.3	2343.1	2346.1	2346.1
10°	2298.8	2295.0	2289.7	2295.8	2298.8
12.5°	2250.0	2238.6	2229.4	2238.6	2250.0
15°	2200.5	2182.2	2160.8	2181.4	2202.8
17.5°	2135.7	2117.4	2093.7	2121.2	2141.8
20°	2029.7	2031.2	2022.1	2029.7	2033.5
22.5°	1859.7	1894.0	1942.0	1894.7	1854.3
25°	1605.7	1695.7	1832.2	1698.8	1614.1
27.5°	1333.5	1447.9	1671.3	1454.8	1341.9
30°	1094.1	1195.5	1446.4	1202.4	1095.7
32.5°	886.0	961.5	1175.7	970.6	895.9
35°	746.5	783.8	906.6	785.3	748.7
37.5°	639.7	639.7	673.3	642.8	636.7
40°	559.6	535.2	492.6	534.5	559.6
42.5°	484.9	448.3	357.6	446.8	486.5
45°	394.2	374.4	265.3	372.8	391.1
47.5°	302.7	289.0	199.8	287.4	305.0
50°	236.4	215.0	154.0	213.5	235.6
52.5°	181.5	158.6	118.9	158.6	179.9
55°	141.8	118.9	92.3	118.9	140.3
57.5°	109.0	90.7	70.1	89.2	108.3
60°	83.1	67.9	54.9	67.9	83.9
62.5°	63.3	51.8	41.9	51.1	62.5
65°	48.0	38.9	32.8	38.9	47.3
67.5°	35.1	29.0	25.2	29.0	35.8
70°	25.9	22.1	19.1	21.3	25.9
72.5°	19.1	16.0	14.5	16.0	19.1
75°	13.0	11.4	10.7	11.4	13.0
77.5°	9.1	8.4	7.6	8.4	9.1
80°	6.1	5.3	5.3	6.1	6.1
82.5°	3.8	3.8	3.8	3.8	3.8
85°	2.3	2.3	2.3	2.3	2.3
87.5°	1.5	1.5	1.5	1.5	1.5
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)