

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: **LD4C60D010 EX4C609050 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: LD4C60D010 EX4C609050 4LCSQWH
Description: 4 INCH 6000 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: 4369.9 lumens
Efficiency: N/A
Efficacy: 60.7 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): 72
Input Voltage (V):
Input Current (A_{in}): 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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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°	398383	398383	398383
5°	394733	394481	394607
10°	384630	383101	384630
15°	375367	368604	375756
20°	355904	354569	356571
25°	291934	333104	293467
30°	208180	275197	208470
35°	150148	182353	150608
40°	120377	105943	120377
45°	91862	61828	91153
50°	60584	39479	60389
55°	40744	26495	40306
60°	27384	18082	27634
65°	18722	12785	18425
70°	12498	9197	12498
75°	8239	6785	8239
80°	5779	5056	5779
85°	4318	4318	4318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.8	8.8
10°-20°	1046.6	23.9
20°-30°	1308.3	29.9
30°-40°	880.1	20.1
40°-50°	464.7	10.6
50°-60°	188.9	4.3
60°-70°	70.0	1.6
70°-80°	22.6	0.5
80°-90°	4.9	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°	2738.7	62.7
0°-40°	3618.8	82.8
0°-60°	4272.4	97.8
0°-90°	4369.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4129	4129	4129	4129	4129	
5°	4075	4072	4073	4073	4074	384
15°	3758	3726	3690	3725	3762	1053
25°	2742	2896	3129	2901	2756	1234
35°	1275	1338	1548	1341	1279	820
45°	673	639	453	637	668	516
55°	242	203	158	203	240	225
65°	82	66	56	66	81	85
75°	22	20	18	20	22	26
85°	4	4	4	4	4	5
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4128.8	4128.8	4128.8	4128.8	4128.8
2.5°	4118.4	4115.8	4114.5	4114.5	4115.8
5°	4075.4	4071.5	4072.8	4072.8	4074.1
7.5°	4006.4	4005.1	4001.2	4006.4	4006.4
10°	3925.7	3919.2	3910.1	3920.5	3925.7
12.5°	3842.4	3822.8	3807.2	3822.8	3842.4
15°	3757.7	3726.5	3690.0	3725.2	3761.6
17.5°	3647.1	3615.8	3575.5	3622.3	3657.5
20°	3466.1	3468.7	3453.1	3466.1	3472.6
22.5°	3175.7	3234.3	3316.3	3235.6	3166.6
25°	2742.1	2895.8	3128.8	2901.0	2756.5
27.5°	2277.3	2472.6	2854.1	2484.3	2291.6
30°	1868.5	2041.6	2470.0	2053.3	1871.1
32.5°	1513.0	1641.9	2007.8	1657.5	1529.9
35°	1274.7	1338.5	1548.1	1341.1	1278.6
37.5°	1092.4	1092.4	1149.7	1097.6	1087.2
40°	955.7	914.0	841.1	912.7	955.7
42.5°	828.1	765.6	610.7	763.0	830.7
45°	673.2	639.3	453.1	636.7	668.0
47.5°	516.9	493.5	341.1	490.9	520.8
50°	403.6	367.2	263.0	364.6	402.3
52.5°	309.9	270.8	203.1	270.8	307.3
55°	242.2	203.1	157.5	203.1	239.6
57.5°	186.2	154.9	119.8	152.3	184.9
60°	141.9	115.9	93.7	115.9	143.2
62.5°	108.1	88.5	71.6	87.2	106.8
65°	82.0	66.4	56.0	66.4	80.7
67.5°	59.9	49.5	43.0	49.5	61.2
70°	44.3	37.8	32.6	36.5	44.3
72.5°	32.6	27.3	24.7	27.3	32.6
75°	22.1	19.5	18.2	19.5	22.1
77.5°	15.6	14.3	13.0	14.3	15.6
80°	10.4	9.1	9.1	10.4	10.4
82.5°	6.5	6.5	6.5	6.5	6.5
85°	3.9	3.9	3.9	3.9	3.9
87.5°	2.6	2.6	2.6	2.6	2.6
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)