

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: **LD4C70D010 EX4C709035 4LCSQWLI**

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 (G1-2105-247-13)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EX4C709035 4LCSQWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

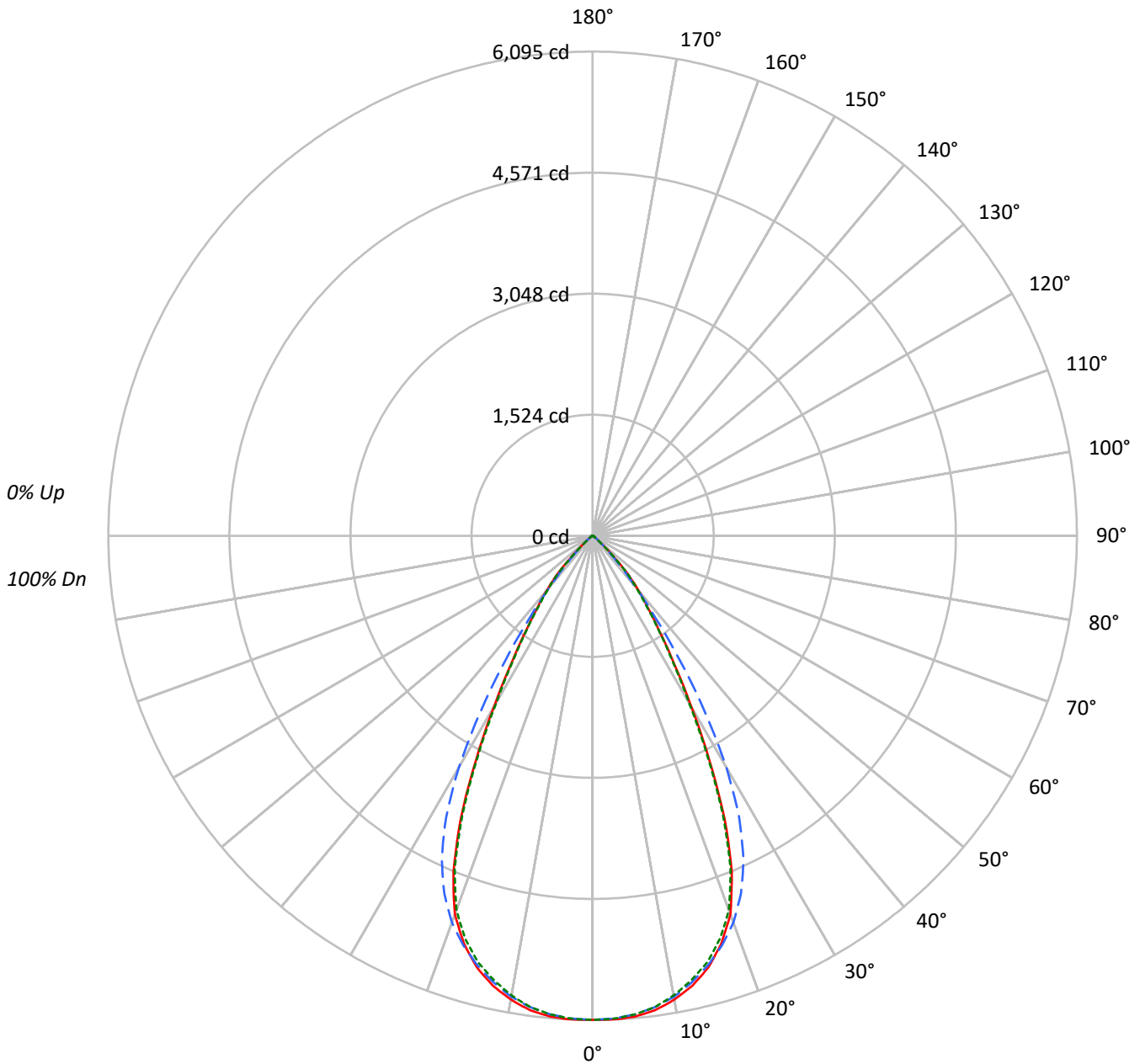
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455.0 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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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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	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	79	73	69	87	79	73	69	77	72	68	76	71	68	74	71	68	66																			
7	84	75	69	65	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	59	58																			
9	76	66	61	57	75	66	60	57	65	60	56	64	60	56	63	59	56	55																			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	587936	587936	587936
5°	588554	585842	585842
10°	580830	577400	575617
15°	561976	559319	555543
20°	520461	531817	514711
25°	418466	478384	412951
30°	276200	375081	269660
35°	172635	225229	169502
40°	112669	104381	108260
45°	54241	41646	51185
50°	13660	16602	12819
55°	7536	6830	7301
60°	5133	4323	4863
65°	3516	3196	3516
70°	2765	2370	2765
75°	2088	2088	2088
80°	1556	2334	2334
85°	1550	3100	3100



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.0	10.5
10°-20°	1564.9	28.7
20°-30°	1864.9	34.2
30°-40°	1056.0	19.4
40°-50°	326.5	6.0
50°-60°	45.4	0.8
60°-70°	15.5	0.3
70°-80°	6.2	0.1
80°-90°	2.6	0.0
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°	4002.9	73.4
0°-40°	5058.9	92.7
0°-60°	5430.8	99.6
0°-90°	5455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6093	6093	6093	6093	6093	
5°	6076	6062	6048	6044	6048	575
15°	5626	5616	5599	5577	5561	1569
25°	3931	4160	4493	4167	3879	1753
35°	1466	1599	1912	1603	1439	954
45°	398	463	305	451	375	328
55°	45	45	41	43	43	44
65°	15	15	14	15	15	16
75°	6	6	6	6	6	6
85°	1	3	3	3	3	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6093.3	6093.3	6093.3	6093.3	6093.3
2.5°	6094.7	6084.9	6082.1	6079.3	6084.9
5°	6076.5	6062.5	6048.5	6044.3	6048.5
7.5°	6024.7	6010.7	5987.0	5981.4	5985.6
10°	5928.2	5915.6	5893.2	5880.6	5875.0
12.5°	5800.8	5779.8	5758.8	5744.8	5730.8
15°	5625.8	5616.0	5599.2	5576.8	5561.4
17.5°	5383.6	5397.6	5407.4	5362.6	5322.0
20°	5068.7	5120.5	5179.3	5088.3	5012.7
22.5°	4577.4	4725.7	4875.5	4703.3	4535.4
25°	3930.6	4160.2	4493.4	4167.2	3878.8
27.5°	3176.1	3467.3	3992.2	3468.7	3134.2
30°	2479.0	2778.6	3366.5	2739.4	2420.3
32.5°	1903.7	2127.7	2630.2	2094.1	1863.1
35°	1465.6	1598.6	1912.1	1602.8	1439.0
37.5°	1139.4	1206.6	1286.4	1182.8	1105.8
40°	894.5	897.3	828.7	883.3	859.5
42.5°	663.5	660.7	509.5	643.9	648.1
45°	397.5	463.3	305.2	450.7	375.1
47.5°	189.0	261.8	183.4	247.8	175.0
50°	91.0	126.0	110.6	117.6	85.4
52.5°	61.6	64.4	63.0	61.6	58.8
55°	44.8	44.8	40.6	43.4	43.4
57.5°	33.6	33.6	29.4	32.2	32.2
60°	26.6	25.2	22.4	25.2	25.2
62.5°	19.6	19.6	16.8	19.6	19.6
65°	15.4	15.4	14.0	15.4	15.4
67.5°	12.6	12.6	9.8	12.6	11.2
70°	9.8	9.8	8.4	9.8	9.8
72.5°	7.0	7.0	7.0	7.0	7.0
75°	5.6	5.6	5.6	5.6	5.6
77.5°	4.2	4.2	4.2	4.2	4.2
80°	2.8	2.8	4.2	4.2	4.2
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	2.8	2.8	2.8	2.8
87.5°	1.4	1.4	2.8	2.8	2.8
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)