

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: **LD4C50D010 EX4C509035 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: LD4C50D010 EX4C509035 4LCSQWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

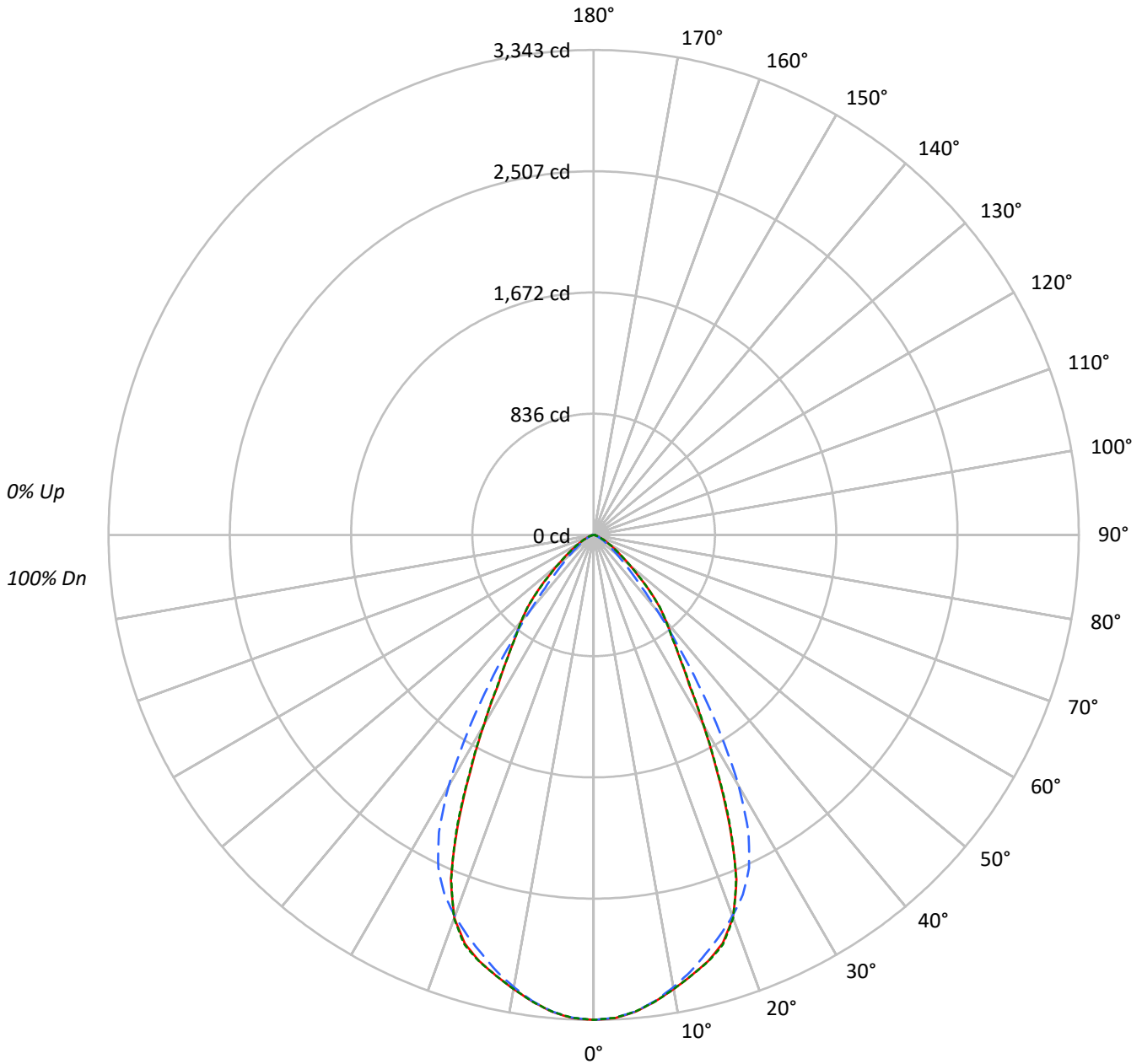
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3538.0 lumens
Efficiency: N/A
Efficacy: 60.6 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): 58.4
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°	322533	322533	322533
5°	319581	319378	319484
10°	311402	310157	311402
15°	303903	298429	304223
20°	288144	287056	288678
25°	236360	269683	237595
30°	168539	222798	168773
35°	121561	147639	121937
40°	97466	85777	97466
45°	74368	50052	73795
50°	49056	31958	48891
55°	32989	21465	32635
60°	22173	14647	22385
65°	15160	10343	14932
70°	10100	7448	10100
75°	6673	5518	6673
80°	4668	4112	4668
85°	3543	3543	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	8.8
10°-20°	847.3	23.9
20°-30°	1059.2	29.9
30°-40°	712.6	20.1
40°-50°	376.2	10.6
50°-60°	152.9	4.3
60°-70°	56.7	1.6
70°-80°	18.3	0.5
80°-90°	4.0	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°	2217.3	62.7
0°-40°	2929.8	82.8
0°-60°	3459.0	97.8
0°-90°	3538.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3538.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3343	3343	3343	3343	3343	
5°	3300	3296	3297	3297	3298	311
15°	3042	3017	2988	3016	3046	852
25°	2220	2344	2533	2349	2232	999
35°	1032	1084	1253	1086	1035	664
45°	545	518	367	516	541	418
55°	196	164	128	164	194	182
65°	66	54	45	54	65	68
75°	18	16	15	16	18	21
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3342.7	3342.7	3342.7	3342.7	3342.7
2.5°	3334.3	3332.2	3331.1	3331.1	3332.2
5°	3299.5	3296.4	3297.4	3297.4	3298.5
7.5°	3243.7	3242.6	3239.4	3243.7	3243.7
10°	3178.3	3173.0	3165.6	3174.1	3178.3
12.5°	3110.8	3095.0	3082.4	3095.0	3110.8
15°	3042.3	3017.0	2987.5	3016.0	3045.5
17.5°	2952.7	2927.4	2894.7	2932.7	2961.1
20°	2806.2	2808.3	2795.6	2806.2	2811.4
22.5°	2571.1	2618.5	2684.9	2619.6	2563.7
25°	2220.1	2344.5	2533.1	2348.7	2231.7
27.5°	1843.7	2001.9	2310.7	2011.3	1855.3
30°	1512.7	1652.9	1999.7	1662.4	1514.8
32.5°	1224.9	1329.3	1625.5	1341.9	1238.6
35°	1032.0	1083.7	1253.4	1085.8	1035.2
37.5°	884.4	884.4	930.8	888.7	880.2
40°	773.8	740.0	681.0	739.0	773.8
42.5°	670.4	619.8	494.4	617.7	672.6
45°	545.0	517.6	366.8	515.5	540.8
47.5°	418.5	399.5	276.2	397.4	421.7
50°	326.8	297.3	212.9	295.2	325.7
52.5°	250.9	219.3	164.4	219.3	248.8
55°	196.1	164.4	127.6	164.4	194.0
57.5°	150.7	125.4	97.0	123.3	149.7
60°	114.9	93.8	75.9	93.8	116.0
62.5°	87.5	71.7	58.0	70.6	86.4
65°	66.4	53.8	45.3	53.8	65.4
67.5°	48.5	40.1	34.8	40.1	49.5
70°	35.8	30.6	26.4	29.5	35.8
72.5°	26.4	22.1	20.0	22.1	26.4
75°	17.9	15.8	14.8	15.8	17.9
77.5°	12.6	11.6	10.5	11.6	12.6
80°	8.4	7.4	7.4	8.4	8.4
82.5°	5.3	5.3	5.3	5.3	5.3
85°	3.2	3.2	3.2	3.2	3.2
87.5°	2.1	2.1	2.1	2.1	2.1
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)