

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: **LD4C35D010 EX4C359030 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: LD4C35D010 EX4C359030 4LCSQWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

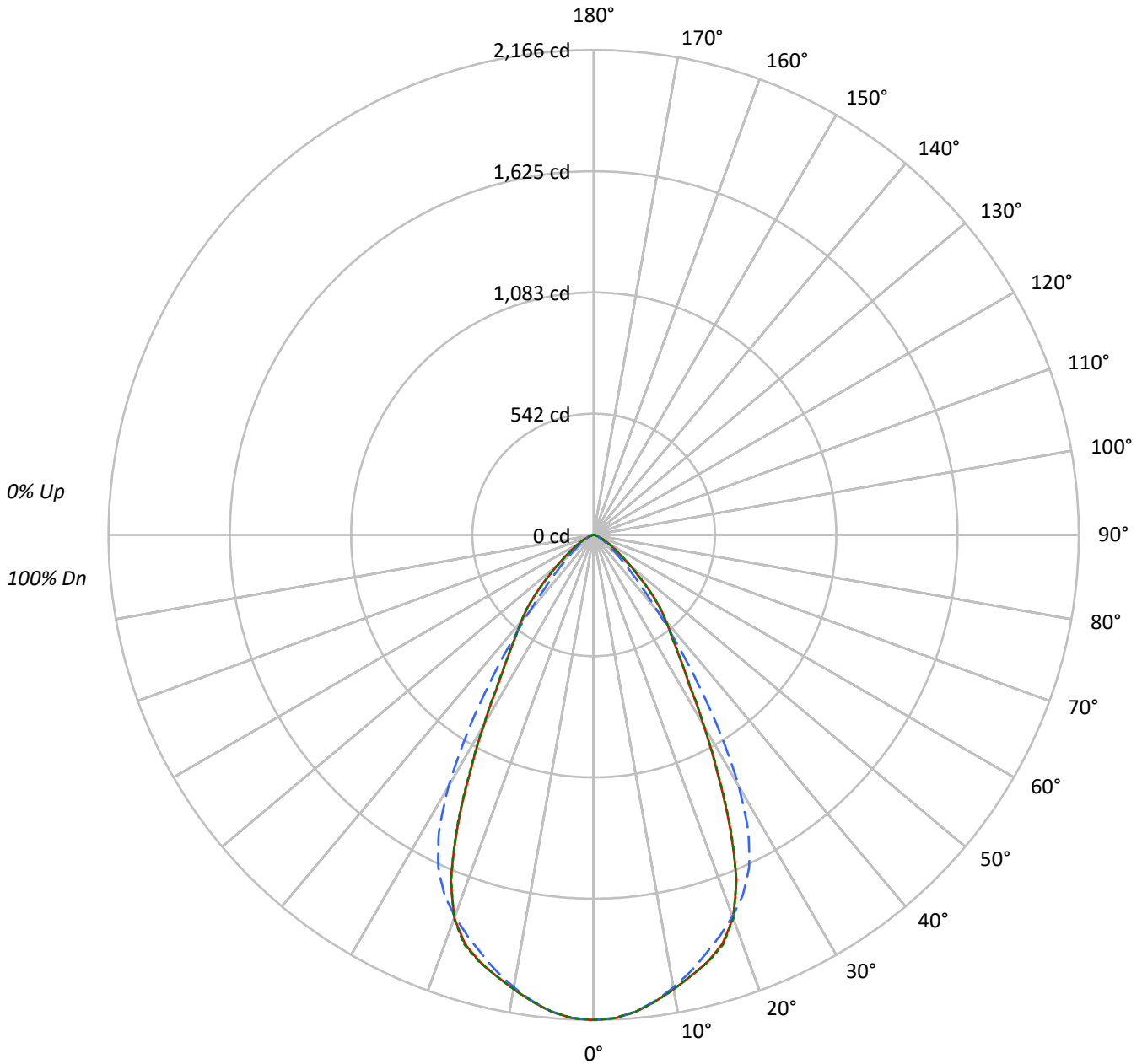
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2293.0 lumens
Efficiency: N/A
Efficacy: 56.8 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): 40.4
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°	209043	209043	209043
5°	207120	206994	207062
10°	201824	201020	201824
15°	196958	193412	197168
20°	186747	186048	187096
25°	153180	174781	153989
30°	109232	144395	109388
35°	78791	95682	79026
40°	63168	55598	63168
45°	48196	32449	47828
50°	31793	20715	31688
55°	21381	13912	21146
60°	14377	9495	14512
65°	9817	6712	9680
70°	6545	4824	6545
75°	4325	3579	4325
80°	3056	2667	3056
85°	2214	2214	2214



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	8.8
10°-20°	549.1	23.9
20°-30°	686.5	29.9
30°-40°	461.8	20.1
40°-50°	243.9	10.6
50°-60°	99.1	4.3
60°-70°	36.8	1.6
70°-80°	11.9	0.5
80°-90°	2.6	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°	1437.0	62.7
0°-40°	1898.9	82.8
0°-60°	2241.8	97.8
0°-90°	2293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2166	2166	2166	2166	2166	
5°	2138	2136	2137	2137	2138	202
15°	1972	1955	1936	1955	1974	552
25°	1439	1520	1642	1522	1446	648
35°	669	702	812	704	671	430
45°	353	336	238	334	350	271
55°	127	107	83	107	126	118
65°	43	35	29	35	42	44
75°	12	10	10	10	12	13
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°	2166.5	2166.5	2166.5	2166.5	2166.5
2.5°	2161.0	2159.6	2158.9	2158.9	2159.6
5°	2138.4	2136.4	2137.1	2137.1	2137.8
7.5°	2102.2	2101.5	2099.5	2102.2	2102.2
10°	2059.9	2056.5	2051.7	2057.1	2059.9
12.5°	2016.1	2005.9	1997.7	2005.9	2016.1
15°	1971.7	1955.3	1936.2	1954.7	1973.8
17.5°	1913.7	1897.3	1876.1	1900.7	1919.1
20°	1818.7	1820.1	1811.9	1818.7	1822.1
22.5°	1666.3	1697.1	1740.1	1697.8	1661.6
25°	1438.8	1519.5	1641.7	1522.2	1446.4
27.5°	1194.9	1297.4	1497.6	1303.6	1202.4
30°	980.4	1071.3	1296.0	1077.4	981.8
32.5°	793.9	861.5	1053.5	869.7	802.8
35°	668.9	702.3	812.3	703.7	670.9
37.5°	573.2	573.2	603.3	575.9	570.5
40°	501.5	479.6	441.4	478.9	501.5
42.5°	434.5	401.7	320.4	400.4	435.9
45°	353.2	335.5	237.8	334.1	350.5
47.5°	271.2	258.9	179.0	257.6	273.3
50°	211.8	192.7	138.0	191.3	211.1
52.5°	162.6	142.1	106.6	142.1	161.2
55°	127.1	106.6	82.7	106.6	125.7
57.5°	97.7	81.3	62.9	79.9	97.0
60°	74.5	60.8	49.2	60.8	75.2
62.5°	56.7	46.5	37.6	45.8	56.0
65°	43.0	34.8	29.4	34.8	42.4
67.5°	31.4	26.0	22.5	26.0	32.1
70°	23.2	19.8	17.1	19.1	23.2
72.5°	17.1	14.3	13.0	14.3	17.1
75°	11.6	10.2	9.6	10.2	11.6
77.5°	8.2	7.5	6.8	7.5	8.2
80°	5.5	4.8	4.8	5.5	5.5
82.5°	3.4	3.4	3.4	3.4	3.4
85°	2.0	2.0	2.0	2.0	2.0
87.5°	1.4	1.4	1.4	1.4	1.4
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)