

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 EX4C359050 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 EX4C359050 4LCSQWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

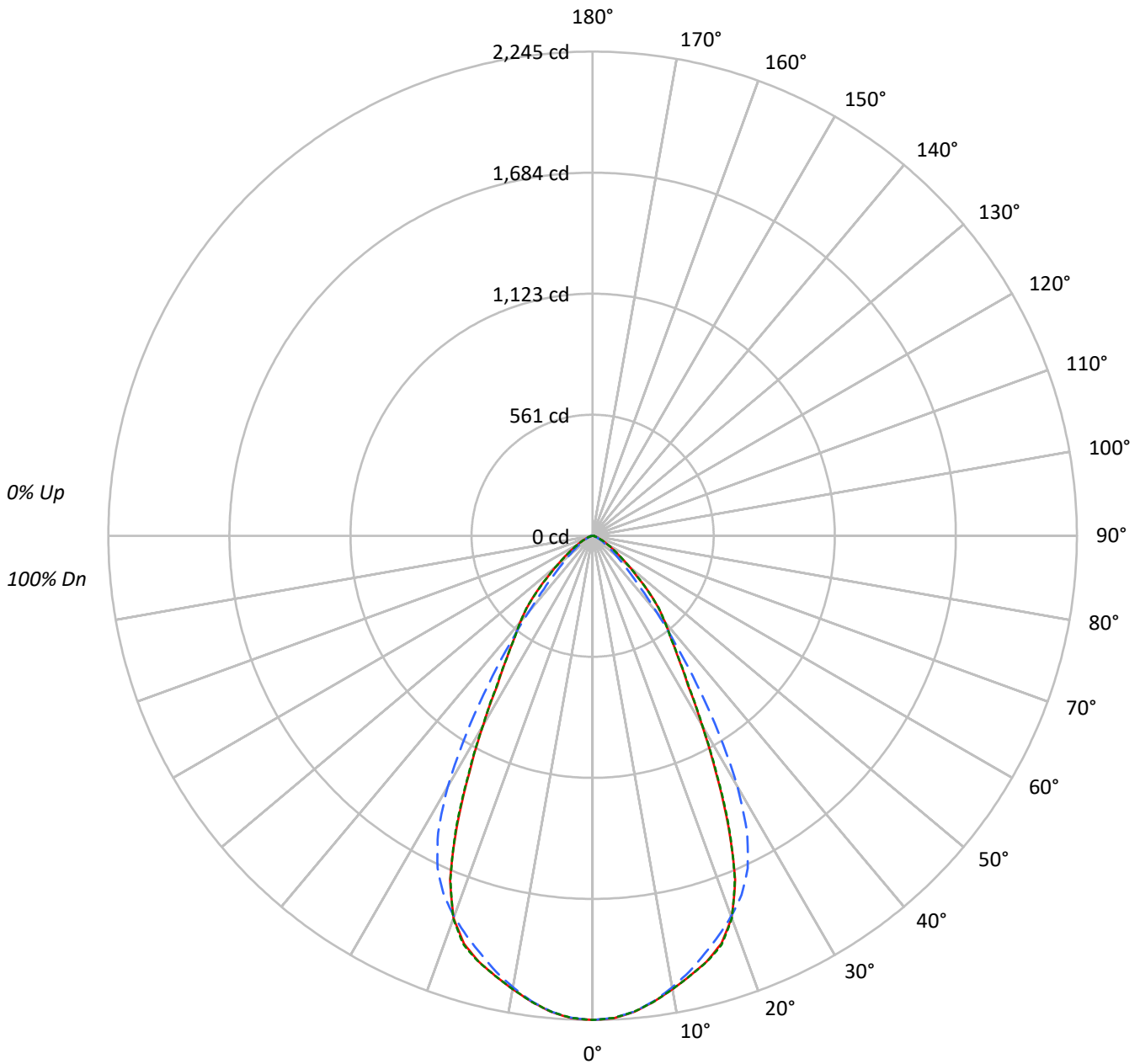
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2376.0 lumens
Efficiency: N/A
Efficacy: 58.8 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 (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	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°	216608	216608	216608
5°	214617	214481	214549
10°	209123	208290	209123
15°	204091	200415	204300
20°	193503	192784	193873
25°	158727	181116	159557
30°	113187	149631	113343
35°	81641	99145	81888
40°	65447	57600	65447
45°	49943	33623	49561
50°	32949	21466	32844
55°	22155	14417	21919
60°	14898	9842	15033
65°	10183	6941	10023
70°	6799	4993	6799
75°	4474	3691	4474
80°	3167	2778	3167
85°	2325	2325	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.7	8.8
10°-20°	569.0	23.9
20°-30°	711.4	29.9
30°-40°	478.5	20.1
40°-50°	252.7	10.6
50°-60°	102.7	4.3
60°-70°	38.1	1.6
70°-80°	12.3	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°	1489.0	62.7
0°-40°	1967.6	82.8
0°-60°	2323.0	97.8
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2245	2245	2245	2245	2245	
5°	2216	2214	2214	2214	2215	209
15°	2043	2026	2006	2025	2045	572
25°	1491	1574	1701	1577	1499	671
35°	693	728	842	729	695	446
45°	366	348	246	346	363	281
55°	132	110	86	110	130	122
65°	45	36	30	36	44	46
75°	12	11	10	11	12	14
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°	2244.9	2244.9	2244.9	2244.9	2244.9
2.5°	2239.2	2237.8	2237.1	2237.1	2237.8
5°	2215.8	2213.7	2214.4	2214.4	2215.1
7.5°	2178.3	2177.6	2175.5	2178.3	2178.3
10°	2134.4	2130.9	2125.9	2131.6	2134.4
12.5°	2089.1	2078.5	2070.0	2078.5	2089.1
15°	2043.1	2026.1	2006.3	2025.4	2045.2
17.5°	1982.9	1965.9	1944.0	1969.5	1988.6
20°	1884.5	1885.9	1877.5	1884.5	1888.1
22.5°	1726.7	1758.5	1803.1	1759.2	1721.7
25°	1490.9	1574.5	1701.2	1577.3	1498.7
27.5°	1238.2	1344.4	1551.8	1350.7	1246.0
30°	1015.9	1110.0	1343.0	1116.4	1017.3
32.5°	822.6	892.7	1091.6	901.2	831.8
35°	693.1	727.8	841.7	729.2	695.2
37.5°	594.0	594.0	625.1	596.8	591.1
40°	519.6	497.0	457.3	496.3	519.6
42.5°	450.2	416.3	332.0	414.9	451.7
45°	366.0	347.6	246.4	346.2	363.2
47.5°	281.1	268.3	185.5	266.9	283.2
50°	219.5	199.6	143.0	198.2	218.8
52.5°	168.5	147.3	110.4	147.3	167.1
55°	131.7	110.4	85.7	110.4	130.3
57.5°	101.2	84.2	65.1	82.8	100.5
60°	77.2	63.0	51.0	63.0	77.9
62.5°	58.8	48.1	38.9	47.4	58.1
65°	44.6	36.1	30.4	36.1	43.9
67.5°	32.6	26.9	23.4	26.9	33.3
70°	24.1	20.5	17.7	19.8	24.1
72.5°	17.7	14.9	13.5	14.9	17.7
75°	12.0	10.6	9.9	10.6	12.0
77.5°	8.5	7.8	7.1	7.8	8.5
80°	5.7	5.0	5.0	5.7	5.7
82.5°	3.5	3.5	3.5	3.5	3.5
85°	2.1	2.1	2.1	2.1	2.1
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)