

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: **LD4C40D010 EX4C409030 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: LD4C40D010 EX4C409030 4LCSQWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

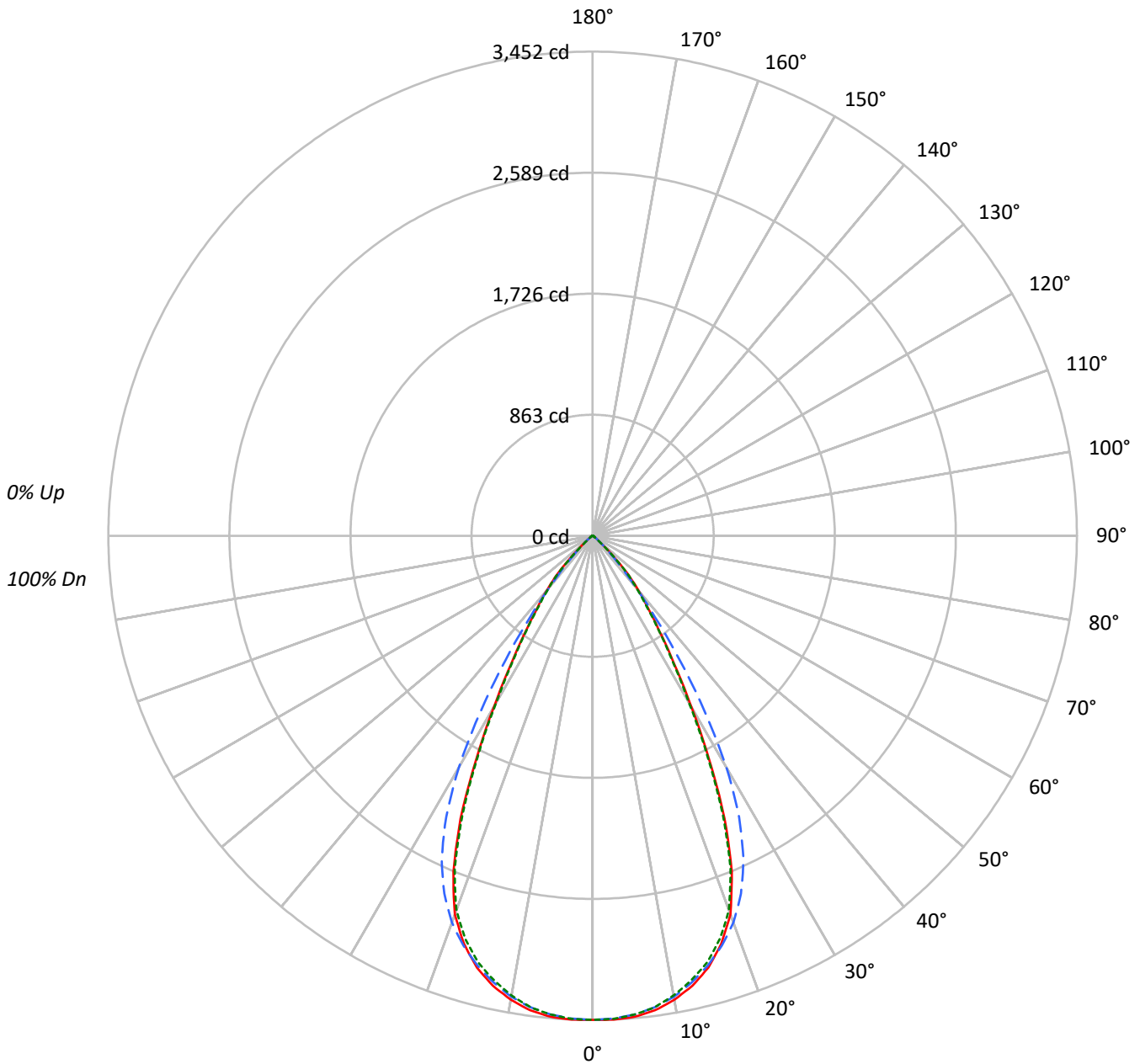
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.1 lumens
Efficiency: N/A
Efficacy: 65.7 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): 47
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	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°	333041	333041	333041
5°	333393	331853	331853
10°	329008	327068	326059
15°	318338	316830	314692
20°	294819	301247	291564
25°	237041	270982	233922
30°	156461	212470	152751
35°	97790	127580	96012
40°	63823	59124	61329
45°	30730	23593	28997
50°	7731	9397	7265
55°	4273	3869	4138
60°	2914	2451	2760
65°	1986	1804	1986
70°	1580	1354	1580
75°	1193	1193	1193
80°	889	1334	1334
85°	886	1771	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.6	10.5
10°-20°	886.5	28.7
20°-30°	1056.4	34.2
30°-40°	598.2	19.4
40°-50°	184.9	6.0
50°-60°	25.7	0.8
60°-70°	8.8	0.3
70°-80°	3.5	0.1
80°-90°	1.5	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°	2267.5	73.4
0°-40°	2865.6	92.7
0°-60°	3076.3	99.6
0°-90°	3090.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3452	3452	3452	3452	3452	
5°	3442	3434	3426	3424	3426	326
15°	3187	3181	3172	3159	3150	889
25°	2226	2357	2545	2360	2197	993
35°	830	906	1083	908	815	540
45°	225	262	173	255	212	186
55°	25	25	23	25	25	25
65°	9	9	8	9	9	9
75°	3	3	3	3	3	3
85°	1	2	2	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3451.6	3451.6	3451.6	3451.6	3451.6
2.5°	3452.4	3446.8	3445.2	3443.7	3446.8
5°	3442.1	3434.1	3426.2	3423.8	3426.2
7.5°	3412.7	3404.8	3391.3	3388.2	3390.5
10°	3358.0	3350.9	3338.2	3331.1	3327.9
12.5°	3285.9	3274.0	3262.1	3254.1	3246.2
15°	3186.8	3181.2	3171.7	3159.0	3150.3
17.5°	3049.6	3057.5	3063.1	3037.7	3014.7
20°	2871.2	2900.5	2933.8	2882.3	2839.5
22.5°	2592.9	2676.9	2761.7	2664.2	2569.1
25°	2226.5	2356.6	2545.3	2360.5	2197.2
27.5°	1799.1	1964.1	2261.4	1964.9	1775.4
30°	1404.3	1573.9	1907.0	1551.7	1371.0
32.5°	1078.4	1205.2	1489.9	1186.2	1055.4
35°	830.2	905.5	1083.1	907.9	815.1
37.5°	645.4	683.5	728.7	670.0	626.4
40°	506.7	508.3	469.4	500.3	486.9
42.5°	375.8	374.3	288.6	364.7	367.1
45°	225.2	262.5	172.9	255.3	212.5
47.5°	107.0	148.3	103.9	140.3	99.1
50°	51.5	71.4	62.6	66.6	48.4
52.5°	34.9	36.5	35.7	34.9	33.3
55°	25.4	25.4	23.0	24.6	24.6
57.5°	19.0	19.0	16.7	18.2	18.2
60°	15.1	14.3	12.7	14.3	14.3
62.5°	11.1	11.1	9.5	11.1	11.1
65°	8.7	8.7	7.9	8.7	8.7
67.5°	7.1	7.1	5.6	7.1	6.3
70°	5.6	5.6	4.8	5.6	5.6
72.5°	4.0	4.0	4.0	4.0	4.0
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.4	2.4	2.4	2.4	2.4
80°	1.6	1.6	2.4	2.4	2.4
82.5°	1.6	1.6	1.6	1.6	1.6
85°	0.8	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	1.6	1.6	1.6
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)