

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 EX4C409035 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 EX4C409035 4LCSQWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

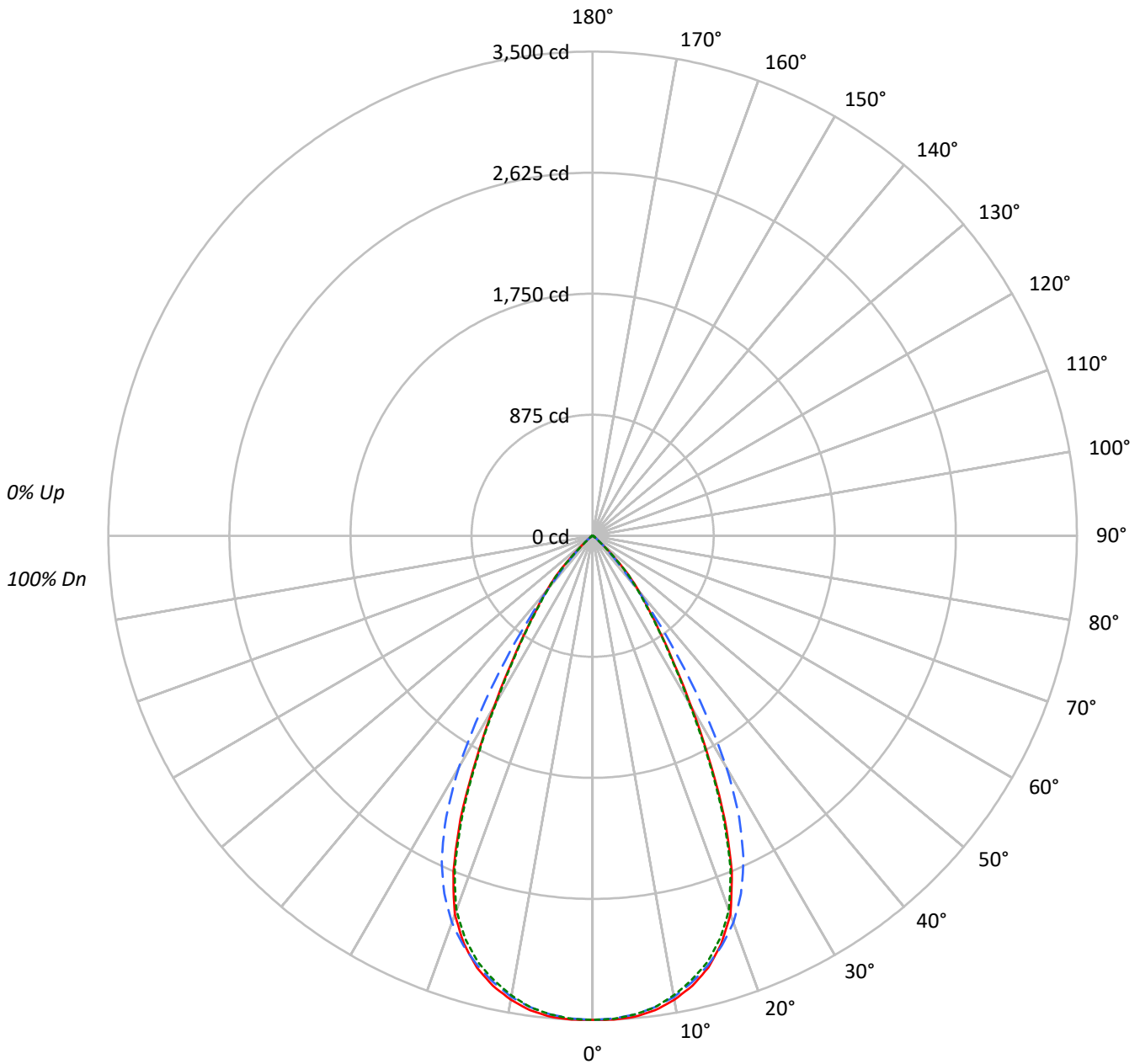
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.0 lumens
Efficiency: N/A
Efficacy: 66.7 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

TEST NUMBER: P#
CATALOG NUMBER: LD4C40D010 EX4C409035 4LCSQWLI

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°	337673	337673	337673
5°	338033	336473	336473
10°	333593	331624	330595
15°	322763	321235	319067
20°	298916	305436	295620
25°	240342	274751	237180
30°	158634	215422	154868
35°	99145	129358	97354
40°	64704	59943	62173
45°	31153	23921	29406
50°	7851	9532	7355
55°	4323	3920	4189
60°	2953	2489	2798
65°	2009	1826	2009
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°	329.1	10.5
10°-20°	898.8	28.7
20°-30°	1071.1	34.2
30°-40°	606.5	19.4
40°-50°	187.5	6.0
50°-60°	26.1	0.8
60°-70°	8.9	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°	2299.0	73.4
0°-40°	2905.5	92.7
0°-60°	3119.1	99.6
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3500	3500	3500	3500	3500	
5°	3490	3482	3474	3472	3474	330
15°	3231	3226	3216	3203	3194	901
25°	2258	2389	2581	2393	2228	1007
35°	842	918	1098	920	826	548
45°	228	266	175	259	216	189
55°	26	26	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°	3499.6	3499.6	3499.6	3499.6	3499.6
2.5°	3500.4	3494.8	3493.2	3491.6	3494.8
5°	3490.0	3481.9	3473.9	3471.5	3473.9
7.5°	3460.2	3452.2	3438.5	3435.3	3437.7
10°	3404.8	3397.5	3384.7	3377.4	3374.2
12.5°	3331.6	3319.5	3307.5	3299.4	3291.4
15°	3231.1	3225.5	3215.8	3203.0	3194.1
17.5°	3092.0	3100.1	3105.7	3080.0	3056.6
20°	2911.1	2940.9	2974.6	2922.4	2879.0
22.5°	2628.9	2714.2	2800.2	2701.3	2604.8
25°	2257.5	2389.4	2580.7	2393.4	2227.8
27.5°	1824.2	1991.4	2292.9	1992.2	1800.1
30°	1423.8	1595.9	1933.5	1573.3	1390.0
32.5°	1093.4	1222.0	1510.6	1202.7	1070.1
35°	841.7	918.1	1098.2	920.5	826.5
37.5°	654.4	693.0	738.8	679.3	635.1
40°	513.7	515.3	475.9	507.3	493.6
42.5°	381.1	379.5	292.6	369.8	372.2
45°	228.3	266.1	175.3	258.9	215.5
47.5°	108.5	150.3	105.3	142.3	100.5
50°	52.3	72.4	63.5	67.5	49.0
52.5°	35.4	37.0	36.2	35.4	33.8
55°	25.7	25.7	23.3	24.9	24.9
57.5°	19.3	19.3	16.9	18.5	18.5
60°	15.3	14.5	12.9	14.5	14.5
62.5°	11.3	11.3	9.6	11.3	11.3
65°	8.8	8.8	8.0	8.8	8.8
67.5°	7.2	7.2	5.6	7.2	6.4
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)