

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: **LD4C45D010 EX4C459040 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: LD4C45D010 EX4C459040 4LCSQWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

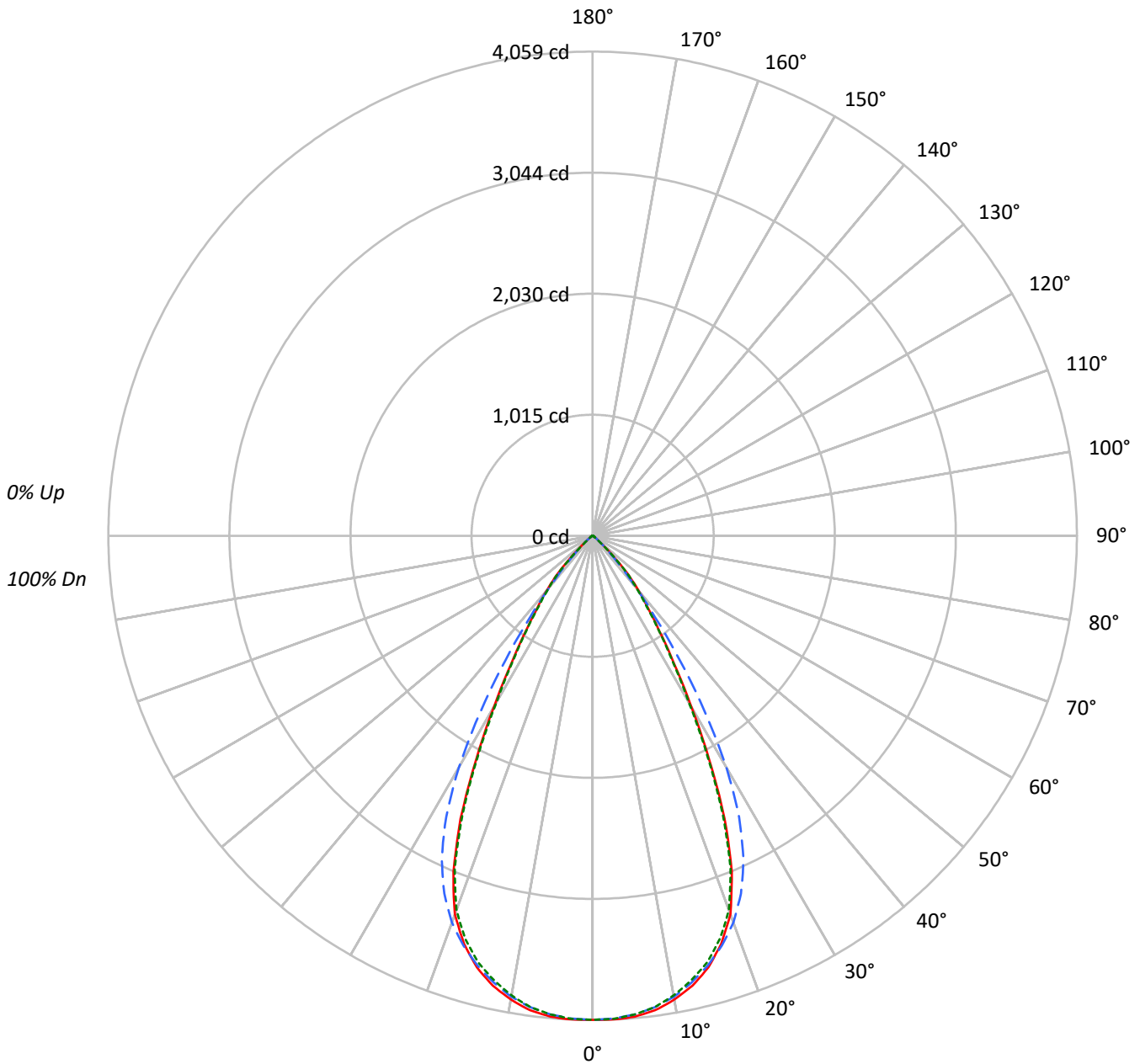
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3633.0 lumens
Efficiency: N/A
Efficacy: 73.2 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): 49.6
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°	391562	391562	391562
5°	391972	390171	390171
10°	386825	384542	383356
15°	374278	372500	369992
20°	346621	354189	342791
25°	278701	318603	275028
30°	183947	249805	179591
35°	114976	150007	112891
40°	75033	69516	72098
45°	36134	27728	34087
50°	9097	11048	8541
55°	5013	4542	4862
60°	3416	2875	3242
65°	2352	2123	2352
70°	1834	1580	1834
75°	1379	1379	1379
80°	1056	1556	1556
85°	996	2103	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	10.5
10°-20°	1042.2	28.7
20°-30°	1242.0	34.2
30°-40°	703.3	19.4
40°-50°	217.4	6.0
50°-60°	30.2	0.8
60°-70°	10.3	0.3
70°-80°	4.1	0.1
80°-90°	1.8	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°	2665.9	73.4
0°-40°	3369.2	92.7
0°-60°	3616.9	99.6
0°-90°	3633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4058	4058	4058	4058	4058	
5°	4047	4038	4028	4026	4028	383
15°	3747	3740	3729	3714	3704	1045
25°	2618	2771	2993	2775	2583	1167
35°	976	1065	1274	1067	958	635
45°	265	309	203	300	250	219
55°	30	30	27	29	29	29
65°	10	10	9	10	10	11
75°	4	4	4	4	4	4
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°	4058.1	4058.1	4058.1	4058.1	4058.1
2.5°	4059.1	4052.5	4050.7	4048.8	4052.5
5°	4046.9	4037.6	4028.3	4025.5	4028.3
7.5°	4012.4	4003.1	3987.3	3983.5	3986.3
10°	3948.1	3939.7	3924.8	3916.4	3912.7
12.5°	3863.3	3849.3	3835.3	3826.0	3816.7
15°	3746.8	3740.2	3729.0	3714.1	3703.9
17.5°	3585.5	3594.8	3601.3	3571.5	3544.5
20°	3375.7	3410.2	3449.4	3388.8	3338.4
22.5°	3048.5	3147.3	3247.1	3132.4	3020.5
25°	2617.8	2770.7	2992.6	2775.3	2583.3
27.5°	2115.3	2309.2	2658.8	2310.1	2087.3
30°	1651.0	1850.5	2242.1	1824.4	1611.9
32.5°	1267.9	1417.0	1751.7	1394.7	1240.8
35°	976.1	1064.6	1273.5	1067.4	958.4
37.5°	758.9	803.6	856.7	787.8	736.5
40°	595.7	597.6	551.9	588.3	572.4
42.5°	441.9	440.0	339.3	428.8	431.6
45°	264.8	308.6	203.2	300.2	249.8
47.5°	125.9	174.3	122.1	165.0	116.5
50°	60.6	83.9	73.6	78.3	56.9
52.5°	41.0	42.9	42.0	41.0	39.2
55°	29.8	29.8	27.0	28.9	28.9
57.5°	22.4	22.4	19.6	21.4	21.4
60°	17.7	16.8	14.9	16.8	16.8
62.5°	13.1	13.1	11.2	13.1	13.1
65°	10.3	10.3	9.3	10.3	10.3
67.5°	8.4	8.4	6.5	8.4	7.5
70°	6.5	6.5	5.6	6.5	6.5
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	2.8	2.8	2.8
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	1.9	1.9	1.9	1.9
87.5°	0.9	0.9	1.9	1.9	1.9
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)