

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 EX4C459050 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 EX4C459050 4LCSQWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

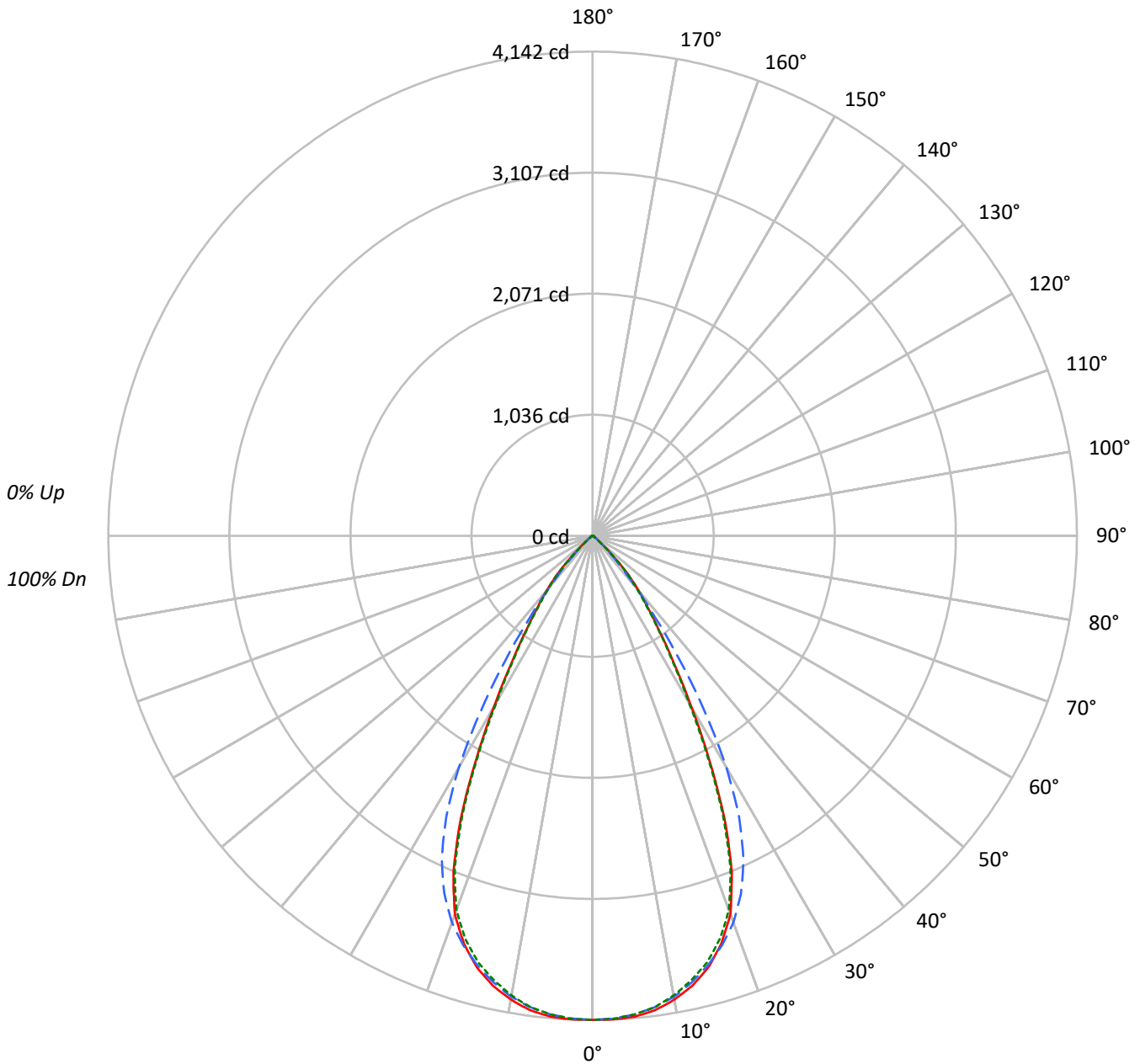
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3707.1 lumens
Efficiency: N/A
Efficacy: 74.7 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): 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°	399541	399541	399541
5°	399963	398113	398113
10°	394702	392380	391165
15°	381900	380092	377524
20°	353686	361397	349774
25°	284375	325087	280628
30°	187702	254897	183246
35°	117320	153058	115188
40°	76557	70927	73572
45°	36870	28301	34783
50°	9277	11273	8706
55°	5114	4643	4963
60°	3493	2933	3300
65°	2397	2169	2397
70°	1890	1608	1890
75°	1417	1417	1417
80°	1056	1611	1611
85°	1107	2103	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.4	10.5
10°-20°	1063.5	28.7
20°-30°	1267.3	34.2
30°-40°	717.6	19.4
40°-50°	221.9	6.0
50°-60°	30.8	0.8
60°-70°	10.5	0.3
70°-80°	4.2	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°	2720.2	73.4
0°-40°	3437.9	92.7
0°-60°	3690.5	99.6
0°-90°	3707.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4141	4141	4141	4141	4141	
5°	4129	4120	4110	4108	4110	391
15°	3823	3816	3805	3790	3779	1066
25°	2671	2827	3054	2832	2636	1191
35°	996	1086	1299	1089	978	648
45°	270	315	207	306	255	223
55°	30	30	28	30	30	30
65°	10	10	10	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°	4140.8	4140.8	4140.8	4140.8	4140.8
2.5°	4141.7	4135.1	4133.2	4131.3	4135.1
5°	4129.4	4119.9	4110.3	4107.5	4110.3
7.5°	4094.2	4084.7	4068.5	4064.7	4067.5
10°	4028.5	4020.0	4004.8	3996.2	3992.4
12.5°	3942.0	3927.7	3913.4	3903.9	3894.4
15°	3823.1	3816.4	3805.0	3789.8	3779.3
17.5°	3658.5	3668.0	3674.7	3644.2	3616.6
20°	3444.5	3479.7	3519.6	3457.8	3406.4
22.5°	3110.6	3211.4	3313.2	3196.2	3082.0
25°	2671.1	2827.1	3053.5	2831.9	2635.9
27.5°	2158.4	2356.2	2713.0	2357.2	2129.8
30°	1684.7	1888.2	2287.8	1861.6	1644.7
32.5°	1293.7	1445.9	1787.4	1423.1	1266.1
35°	996.0	1086.3	1299.4	1089.2	977.9
37.5°	774.3	820.0	874.2	803.8	751.5
40°	607.8	609.8	563.1	600.2	584.1
42.5°	450.9	449.0	346.3	437.6	440.4
45°	270.2	314.9	207.4	306.3	254.9
47.5°	128.4	177.9	124.6	168.4	118.9
50°	61.8	85.6	75.1	79.9	58.0
52.5°	41.9	43.8	42.8	41.9	40.0
55°	30.4	30.4	27.6	29.5	29.5
57.5°	22.8	22.8	20.0	21.9	21.9
60°	18.1	17.1	15.2	17.1	17.1
62.5°	13.3	13.3	11.4	13.3	13.3
65°	10.5	10.5	9.5	10.5	10.5
67.5°	8.6	8.6	6.7	8.6	7.6
70°	6.7	6.7	5.7	6.7	6.7
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.8	3.8	3.8	3.8	3.8
77.5°	2.9	2.9	2.9	2.9	2.9
80°	1.9	1.9	2.9	2.9	2.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	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)