

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



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: -

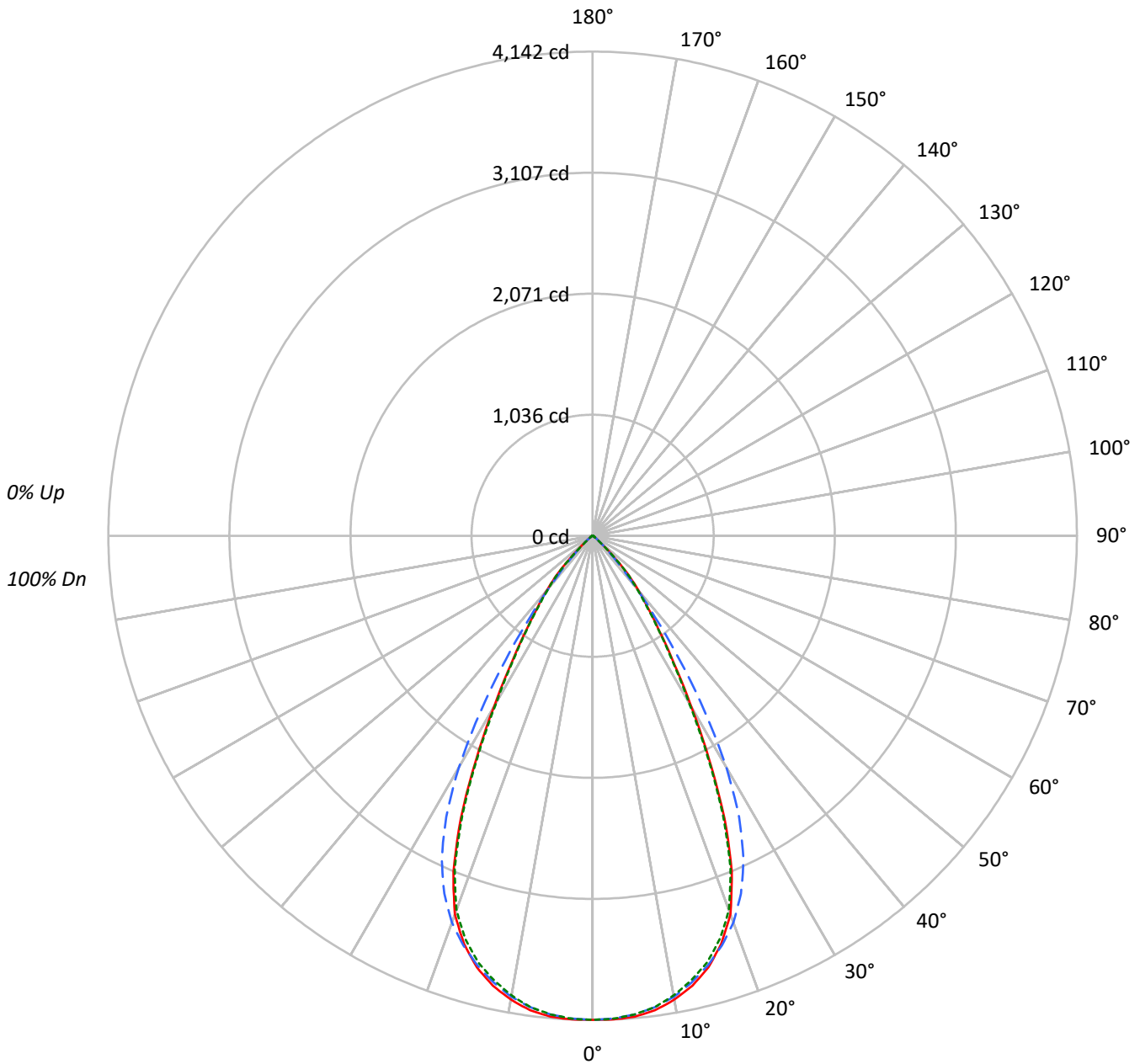
Summary

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 (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	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)