

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: P563866

Luminaire Tested: **LD4C50D010 EX4C509030 4LCSQWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563866
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: LD4C50D010 EX4C509030 4LCSQWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH LI FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

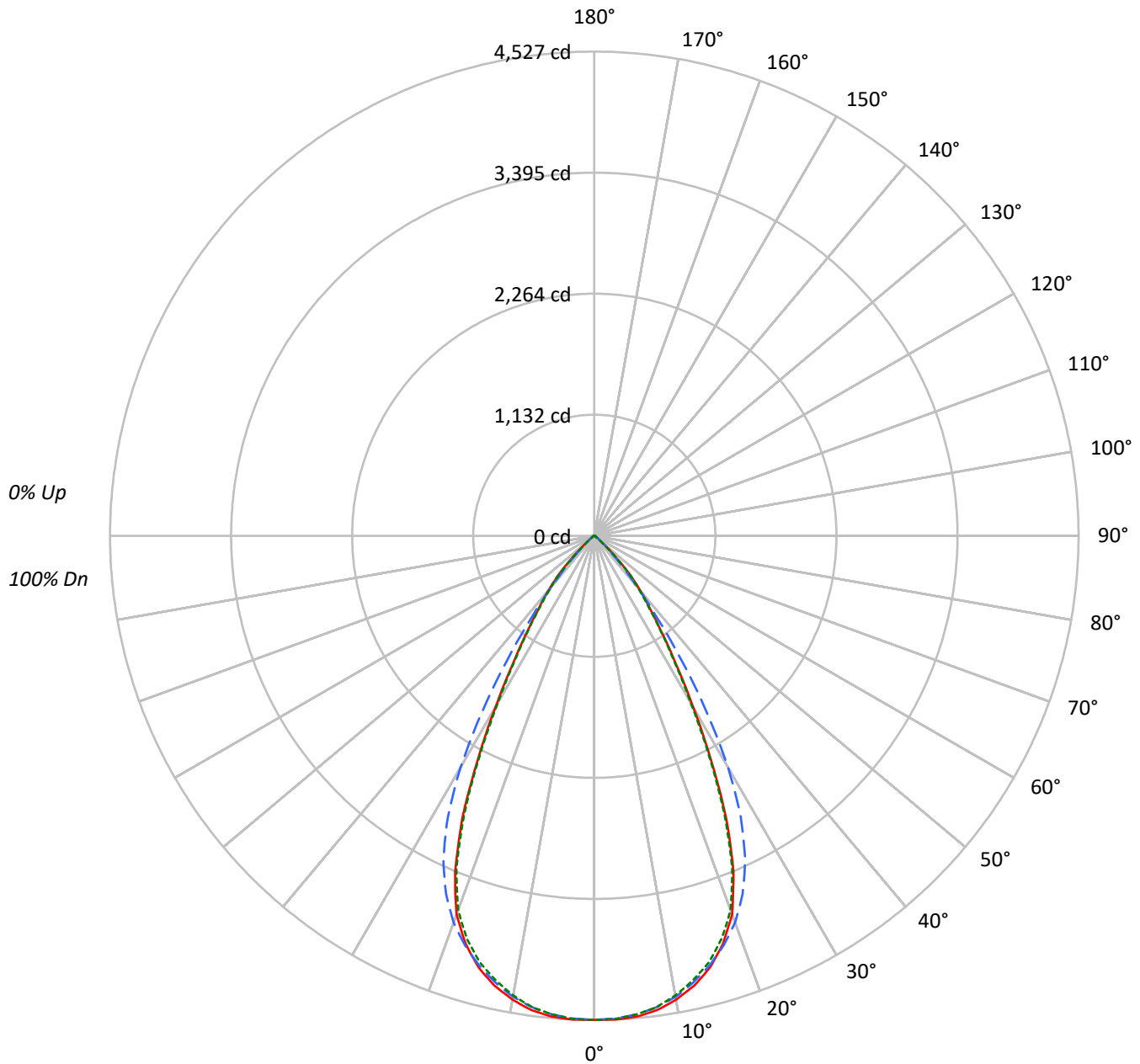
Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	114	111	108	106	111	109	106	104		105	103	101			101	100	98			97
2	108	103	99	96	106	102	98	95		98	95	93			95	93	91			93
3	103	96	91	88	101	95	90	87		92	89	85			90	87	84			88
4	98	90	85	80	96	89	84	80		87	82	79			85	81	78			83
5	93	84	79	74	91	84	78	74		82	77	73			80	76	73			79
6	88	79	73	69	87	79	73	69		77	72	68			76	71	68			74
7	84	75	69	65	82	74	68	64		73	68	64			71	67	64			70
8	80	70	64	60	79	70	64	60		69	64	60			68	63	60			67
9	76	66	61	57	75	66	60	57		65	60	56			64	60	56			63
10	72	63	57	53	71	62	57	53		62	57	53			61	56	53			60

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	436728	436728	436728
5°	437186	435171	435171
10°	431443	428896	427573
15°	417441	415464	412657
20°	386595	395036	382324
25°	310842	355344	306743
30°	205161	278617	200303
35°	128227	167299	125907
40°	83686	77527	80411
45°	40295	30935	38030
50°	10147	12324	9517
55°	5602	5080	5417
60°	3821	3203	3609
65°	2603	2374	2603
70°	2059	1749	2059
75°	1566	1566	1566
80°	1167	1723	1723
85°	1107	2325	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	10.5
10°-20°	1162.4	28.7
20°-30°	1385.3	34.2
30°-40°	784.4	19.4
40°-50°	242.5	6.0
50°-60°	33.7	0.8
60°-70°	11.5	0.3
70°-80°	4.6	0.1
80°-90°	1.9	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°	2973.4	73.4
0°-40°	3757.8	92.7
0°-60°	4034.0	99.6
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4526	4526	4526	4526	4526	
5°	4514	4503	4493	4490	4493	427
15°	4179	4172	4159	4142	4131	1165
25°	2920	3090	3338	3095	2881	1302
35°	1089	1187	1420	1190	1069	709
45°	295	344	227	335	279	244
55°	33	33	30	32	32	33
65°	11	11	10	11	11	12
75°	4	4	4	4	4	5
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°	4526.2	4526.2	4526.2	4526.2	4526.2
2.5°	4527.2	4519.9	4517.8	4515.8	4519.9
5°	4513.7	4503.3	4492.9	4489.8	4492.9
7.5°	4475.2	4464.8	4447.1	4443.0	4446.1
10°	4403.5	4394.1	4377.5	4368.1	4364.0
12.5°	4308.8	4293.2	4277.7	4267.3	4256.9
15°	4178.9	4171.6	4159.1	4142.5	4131.0
17.5°	3999.0	4009.4	4016.7	3983.4	3953.2
20°	3765.0	3803.5	3847.2	3779.6	3723.4
22.5°	3400.1	3510.3	3621.6	3493.7	3368.9
25°	2919.7	3090.2	3337.7	3095.4	2881.2
27.5°	2359.3	2575.5	2965.5	2576.6	2328.1
30°	1841.4	2064.0	2500.7	2034.8	1797.8
32.5°	1414.1	1580.5	1953.7	1555.5	1383.9
35°	1088.6	1187.4	1420.3	1190.5	1068.9
37.5°	846.4	896.3	955.6	878.6	821.4
40°	664.4	666.5	615.5	656.1	638.4
42.5°	492.9	490.8	378.5	478.3	481.4
45°	295.3	344.2	226.7	334.8	278.7
47.5°	140.4	194.4	136.2	184.0	130.0
50°	67.6	93.6	82.1	87.3	63.4
52.5°	45.8	47.8	46.8	45.8	43.7
55°	33.3	33.3	30.2	32.2	32.2
57.5°	25.0	25.0	21.8	23.9	23.9
60°	19.8	18.7	16.6	18.7	18.7
62.5°	14.6	14.6	12.5	14.6	14.6
65°	11.4	11.4	10.4	11.4	11.4
67.5°	9.4	9.4	7.3	9.4	8.3
70°	7.3	7.3	6.2	7.3	7.3
72.5°	5.2	5.2	5.2	5.2	5.2
75°	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	3.1	3.1	3.1
82.5°	2.1	2.1	2.1	2.1	2.1
85°	1.0	2.1	2.1	2.1	2.1
87.5°	1.0	1.0	2.1	2.1	2.1
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)