

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

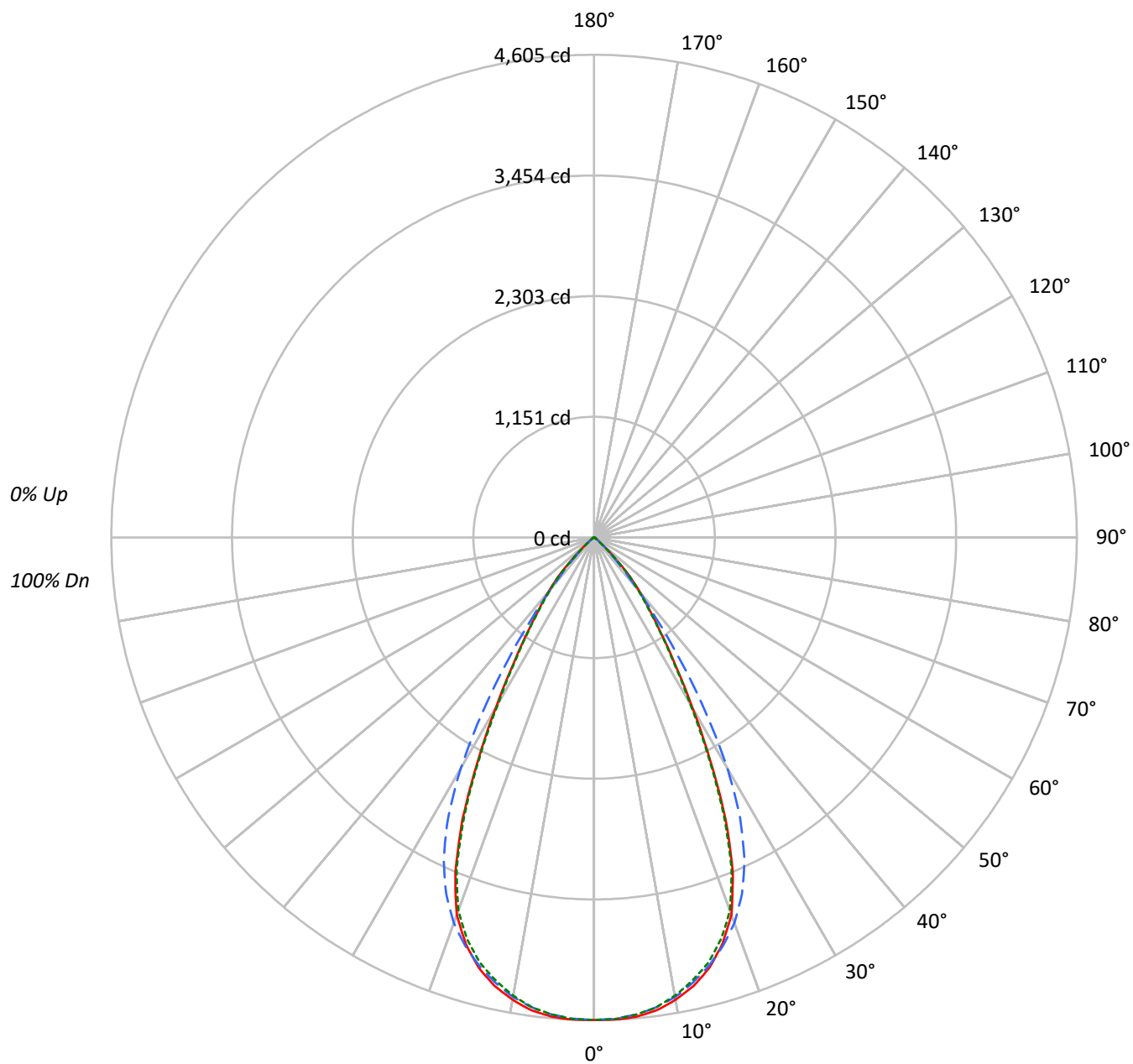
Lumens per Lamp: N/A
Luminaire Lumens: 4121.7 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.9
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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°	444245	444245	444245
5°	444702	442658	442658
10°	438860	436274	434931
15°	424624	422606	419759
20°	393249	401833	388895
25°	316187	361455	312024
30°	208693	283408	203746
35°	130430	170173	128074
40°	85122	78862	81797
45°	40991	31467	38685
50°	10328	12534	9682
55°	5703	5164	5518
60°	3879	3261	3667
65°	2648	2420	2648
70°	2088	1777	2088
75°	1603	1603	1603
80°	1167	1778	1778
85°	1107	2325	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	10.5
10°-20°	1182.4	28.7
20°-30°	1409.1	34.2
30°-40°	797.9	19.4
40°-50°	246.7	6.0
50°-60°	34.3	0.8
60°-70°	11.7	0.3
70°-80°	4.7	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°	3024.5	73.4
0°-40°	3822.4	92.7
0°-60°	4103.4	99.6
0°-90°	4121.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4604	4604	4604	4604	4604	
5°	4591	4581	4570	4567	4570	435
15°	4251	4243	4231	4214	4202	1185
25°	2970	3143	3395	3149	2931	1324
35°	1107	1208	1445	1211	1087	721
45°	300	350	231	341	284	248
55°	34	34	31	33	33	33
65°	12	12	11	12	12	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°	4604.1	4604.1	4604.1	4604.1	4604.1
2.5°	4605.1	4597.6	4595.5	4593.5	4597.6
5°	4591.3	4580.8	4570.2	4567.0	4570.2
7.5°	4552.2	4541.6	4523.6	4519.4	4522.6
10°	4479.2	4469.7	4452.8	4443.2	4439.1
12.5°	4382.9	4367.0	4351.3	4340.7	4330.1
15°	4250.8	4243.4	4230.6	4213.8	4202.1
17.5°	4067.8	4078.4	4085.8	4051.9	4021.2
20°	3829.8	3868.9	3913.4	3844.6	3787.4
22.5°	3458.6	3570.7	3683.9	3553.8	3426.8
25°	2969.9	3143.4	3395.1	3148.6	2930.8
27.5°	2399.9	2619.8	3016.5	2620.9	2368.1
30°	1873.1	2099.5	2543.7	2069.8	1828.7
32.5°	1438.4	1607.7	1987.3	1582.3	1407.7
35°	1107.3	1207.8	1444.7	1211.0	1087.3
37.5°	861.0	911.7	972.0	893.7	835.5
40°	675.8	678.0	626.1	667.4	649.4
42.5°	501.4	499.2	385.0	486.5	489.7
45°	300.4	350.1	230.6	340.6	283.5
47.5°	142.8	197.7	138.5	187.2	132.2
50°	68.8	95.2	83.5	88.8	64.5
52.5°	46.6	48.6	47.6	46.6	44.5
55°	33.9	33.9	30.7	32.8	32.8
57.5°	25.4	25.4	22.2	24.3	24.3
60°	20.1	19.0	16.9	19.0	19.0
62.5°	14.9	14.9	12.7	14.9	14.9
65°	11.6	11.6	10.6	11.6	11.6
67.5°	9.6	9.6	7.4	9.6	8.4
70°	7.4	7.4	6.3	7.4	7.4
72.5°	5.3	5.3	5.3	5.3	5.3
75°	4.3	4.3	4.3	4.3	4.3
77.5°	3.2	3.2	3.2	3.2	3.2
80°	2.1	2.1	3.2	3.2	3.2
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)