

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: P563865

Luminaire Tested: **LD4C50D010 EX4C509030 4LCSQWH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P563865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2105-247-14)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C50D010 EX4C509030 4LCSQWH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSQW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

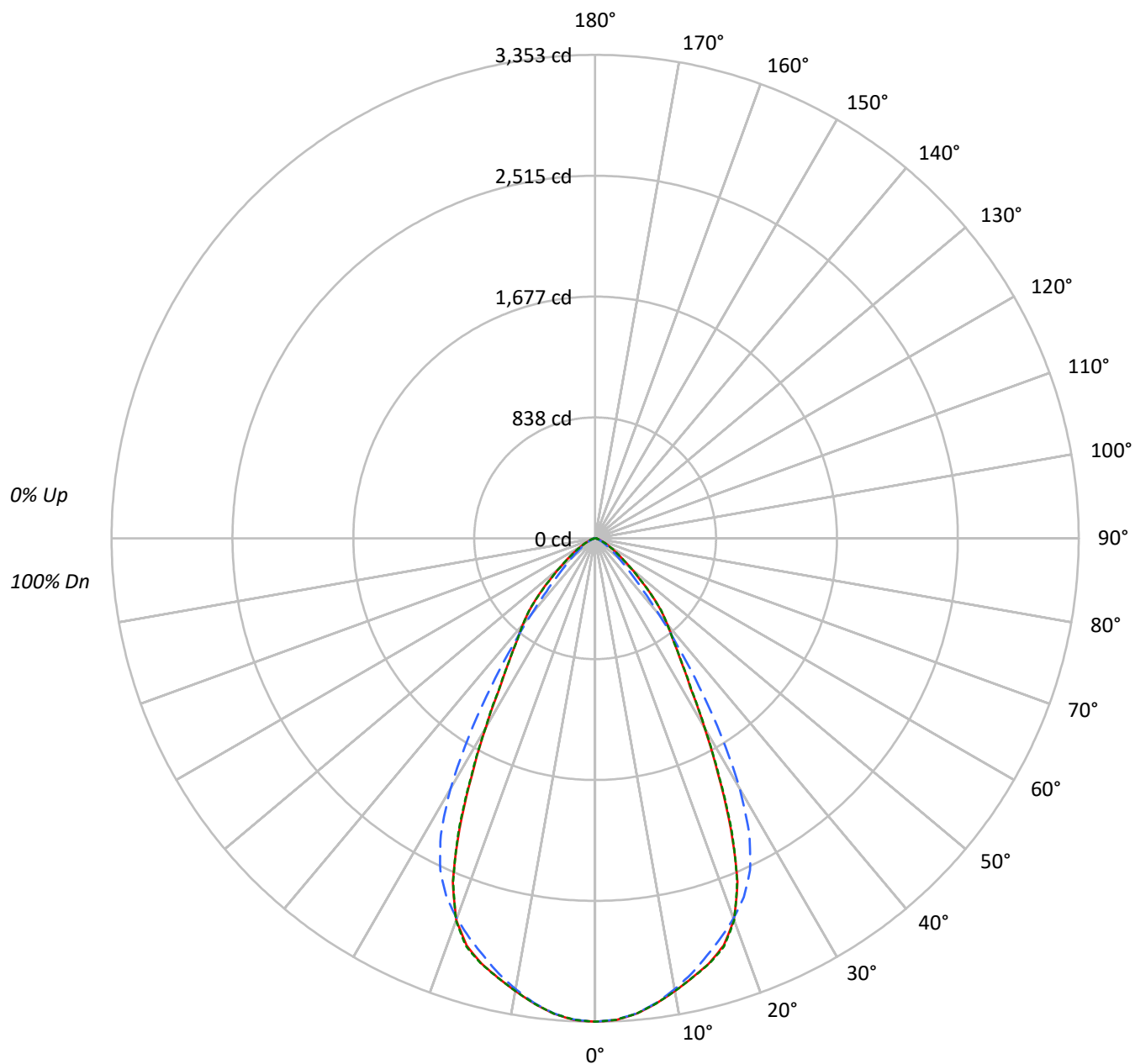
Lumens per Lamp: N/A
Luminaire Lumens: 3549.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 0.93 / 0.94
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	113	110	107	105	110	108	105	103		104	102	100			100	98	97			96
2	107	101	97	93	104	99	95	92		96	93	90			93	90	88			90
3	101	93	88	84	98	92	87	83		89	85	82			87	83	80			85
4	95	87	80	76	93	85	80	75		83	78	74			81	77	74			79
5	89	80	74	69	88	79	73	69		78	72	68			76	71	68			74
6	85	75	68	64	83	74	68	63		72	67	63			71	66	63			70
7	80	70	63	59	79	69	63	59		68	62	58			67	62	58			65
8	76	65	59	55	74	65	59	54		64	58	54			63	58	54			62
9	72	61	55	51	71	61	55	51		60	54	51			59	54	50			58
10	68	58	52	48	67	57	51	47		57	51	47			56	51	47			55

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	323537	323537	323537
5°	320579	320366	320472
10°	312372	311127	312372
15°	304852	299358	305172
20°	289038	287949	289582
25°	237095	270535	238340
30°	169073	223489	169296
35°	121937	148099	122314
40°	97755	86054	97755
45°	74600	50216	74027
50°	49206	32064	49041
55°	33090	21533	32736
60°	22231	14686	22463
65°	15206	10388	14977
70°	10128	7448	10128
75°	6710	5555	6710
80°	4668	4112	4668
85°	3543	3543	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.7	8.8
10°-20°	849.9	23.9
20°-30°	1062.5	29.9
30°-40°	714.8	20.1
40°-50°	377.4	10.6
50°-60°	153.4	4.3
60°-70°	56.9	1.6
70°-80°	18.4	0.5
80°-90°	4.0	0.1
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°	2224.2	62.7
0°-40°	2939.0	82.8
0°-60°	3469.8	97.8
0°-90°	3549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3353	3353	3353	3353	3353	
5°	3310	3307	3308	3308	3309	312
15°	3052	3026	2997	3025	3055	855
25°	2227	2352	2541	2356	2239	1002
35°	1035	1087	1257	1089	1038	666
45°	547	519	368	517	542	419
55°	197	165	128	165	195	182
65°	67	54	46	54	66	69
75°	18	16	15	16	18	21
85°	3	3	3	3	3	4
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3353.1	3353.1	3353.1	3353.1	3353.1
2.5°	3344.7	3342.6	3341.5	3341.5	3342.6
5°	3309.8	3306.6	3307.6	3307.6	3308.7
7.5°	3253.7	3252.7	3249.5	3253.7	3253.7
10°	3188.2	3182.9	3175.5	3183.9	3188.2
12.5°	3120.5	3104.7	3092.0	3104.7	3120.5
15°	3051.8	3026.4	2996.8	3025.4	3055.0
17.5°	2961.9	2936.6	2903.7	2941.8	2970.3
20°	2814.9	2817.0	2804.3	2814.9	2820.2
22.5°	2579.1	2626.7	2693.3	2627.7	2571.7
25°	2227.0	2351.8	2541.1	2355.9	2238.7
27.5°	1849.5	2008.1	2317.9	2017.6	1861.1
30°	1517.5	1658.0	2005.9	1667.6	1519.5
32.5°	1228.8	1333.4	1630.6	1346.2	1242.5
35°	1035.2	1087.1	1257.3	1089.1	1038.4
37.5°	887.2	887.2	933.7	891.5	882.9
40°	776.1	742.4	683.2	741.2	776.1
42.5°	672.6	621.8	496.0	619.7	674.6
45°	546.7	519.2	368.0	517.0	542.5
47.5°	419.8	400.8	277.1	398.6	423.0
50°	327.8	298.2	213.6	296.1	326.7
52.5°	251.7	219.9	165.0	219.9	249.5
55°	196.7	165.0	128.0	165.0	194.6
57.5°	151.3	125.8	97.2	123.7	150.1
60°	115.2	94.1	76.1	94.1	116.4
62.5°	87.8	71.9	58.2	70.9	86.7
65°	66.6	53.9	45.5	53.9	65.6
67.5°	48.6	40.2	34.9	40.2	49.7
70°	35.9	30.6	26.4	29.6	35.9
72.5°	26.4	22.2	20.1	22.2	26.4
75°	18.0	15.9	14.9	15.9	18.0
77.5°	12.7	11.6	10.6	11.6	12.7
80°	8.4	7.4	7.4	8.4	8.4
82.5°	5.3	5.3	5.3	5.3	5.3
85°	3.2	3.2	3.2	3.2	3.2
87.5°	2.1	2.1	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)