

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: P857925

Luminaire Tested: **LD4C40D010 EU4409035 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EU4409035 4LBMDSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

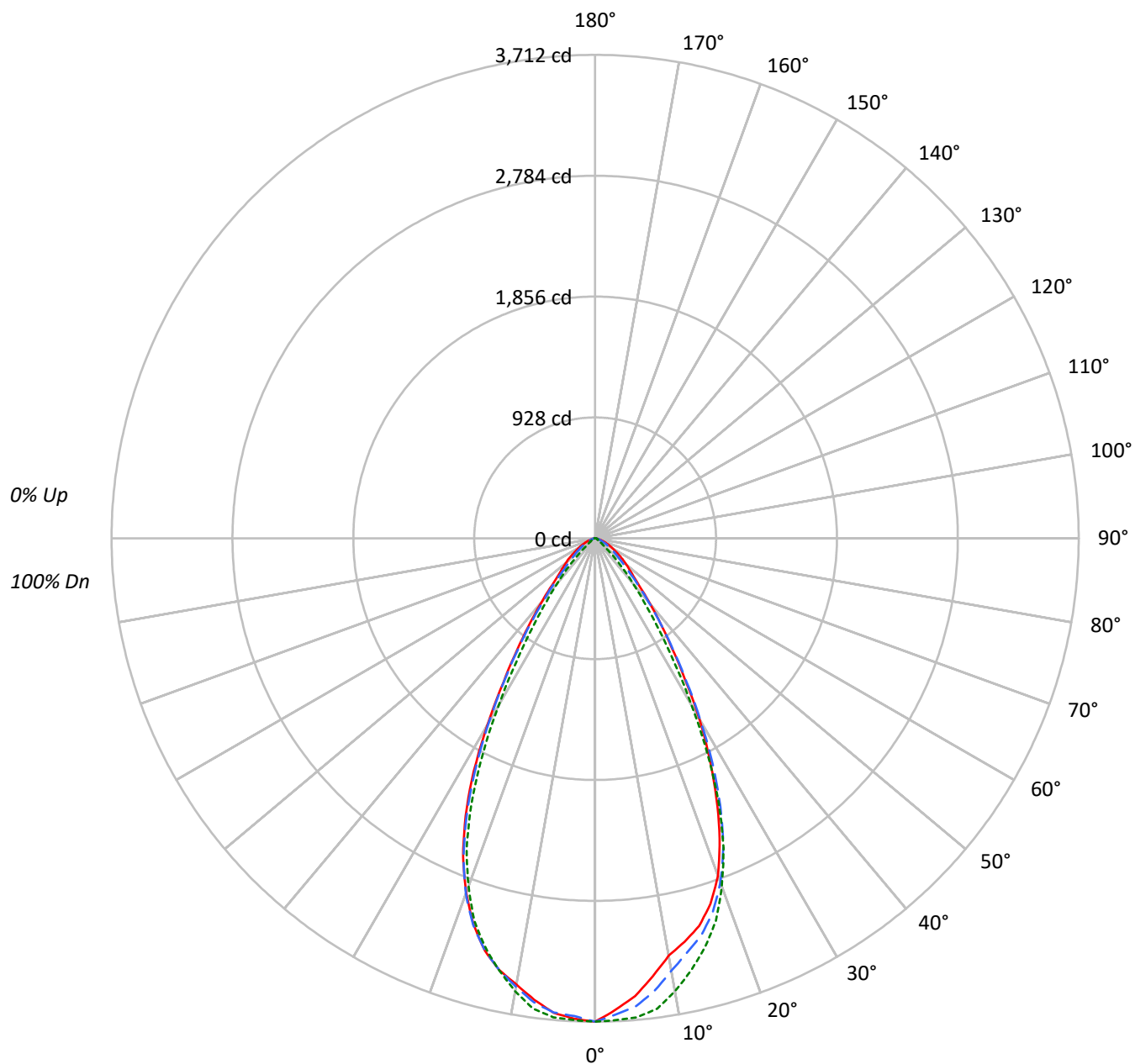
Lumens per Lamp: N/A
Luminaire Lumens: 3379.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
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	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	456008	456008	456008
5°	435120	455271	451028
10°	405832	440513	434076
15°	391889	413766	416678
20°	360484	371727	378473
25°	298774	304223	318985
30°	227286	210207	233798
35°	153891	125950	155616
40°	104804	72168	101581
45°	72711	36347	68715
50°	59173	14793	55331
55°	47893	9210	43587
60°	38035	7052	34497
65°	30000	5843	26657
70°	22665	5137	20582
75°	16329	4082	14952
80°	12169	4033	10117
85°	8035	4088	8035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.3	10.1
10°-20°	896.7	26.5
20°-30°	1028.8	30.4
30°-40°	625.0	18.5
40°-50°	267.8	7.9
50°-60°	128.5	3.8
60°-70°	62.5	1.8
70°-80°	23.2	0.7
80°-90°	5.3	0.2
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°	2266.7	67.1
0°-40°	2891.7	85.6
0°-60°	3288.0	97.3
0°-90°	3379.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3379.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3712	3712	3712	3712	3712	
5°	3528	3606	3692	3654	3657	328
15°	3081	3153	3253	3273	3276	858
25°	2204	2276	2244	2330	2353	1000
35°	1026	1040	840	1015	1038	658
45°	418	373	209	335	396	340
55°	224	166	43	149	204	202
65°	103	69	20	63	92	105
75°	34	23	9	20	32	38
85°	6	6	3	3	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8	3711.8
2.5°	3622.9	3663.1	3660.2	3694.6	3703.2	3694.6	3671.7	3694.6	3691.7
5°	3528.3	3574.2	3605.7	3663.1	3691.7	3686.0	3654.5	3660.2	3657.3
7.5°	3390.8	3448.1	3502.5	3588.5	3643.0	3640.1	3594.3	3585.7	3574.2
10°	3253.2	3307.6	3370.7	3459.6	3531.2	3542.7	3496.8	3485.3	3479.6
12.5°	3172.9	3215.9	3258.9	3336.3	3399.4	3422.3	3396.5	3399.4	3396.5
15°	3081.2	3124.2	3152.9	3210.2	3253.2	3284.7	3273.2	3290.4	3276.1
17.5°	2943.6	2995.2	3006.7	3049.7	3081.2	3101.3	3112.7	3129.9	3107.0
20°	2757.3	2797.5	2811.8	2829.0	2843.3	2869.1	2903.5	2920.7	2894.9
22.5°	2496.5	2573.9	2571.0	2562.4	2576.8	2585.3	2639.8	2668.5	2648.4
25°	2204.1	2284.4	2275.8	2241.4	2244.3	2261.5	2330.3	2367.5	2353.2
27.5°	1897.5	1972.0	1951.9	1886.0	1868.8	1894.6	1983.4	2026.4	2017.8
30°	1602.2	1651.0	1619.4	1501.9	1481.8	1513.4	1628.0	1671.0	1648.1
32.5°	1284.1	1321.3	1307.0	1163.7	1129.3	1160.8	1295.5	1335.7	1309.9
35°	1026.1	1060.5	1040.4	871.3	839.8	874.2	1014.6	1060.5	1037.6
37.5°	822.6	848.4	822.6	642.0	613.4	647.8	782.5	842.7	814.0
40°	653.5	673.6	639.2	472.9	450.0	467.2	593.3	653.5	633.4
42.5°	515.9	530.3	493.0	346.8	321.0	343.9	447.1	501.6	490.1
45°	418.5	418.5	372.6	240.8	209.2	232.2	335.4	392.7	395.5
47.5°	358.3	349.7	292.4	160.5	120.4	151.9	266.6	326.8	335.4
50°	309.6	298.1	240.8	117.5	77.4	108.9	220.7	280.9	289.5
52.5°	266.6	258.0	200.6	91.7	54.5	83.1	186.3	243.6	252.2
55°	223.6	217.8	166.2	71.7	43.0	63.1	149.0	197.8	203.5
57.5°	183.4	174.8	134.7	60.2	34.4	51.6	123.2	163.4	169.1
60°	154.8	146.2	108.9	48.7	28.7	40.1	100.3	134.7	140.4
62.5°	129.0	120.4	88.9	40.1	22.9	34.4	80.3	108.9	114.6
65°	103.2	97.5	68.8	31.5	20.1	25.8	63.1	86.0	91.7
67.5°	83.1	77.4	54.5	25.8	17.2	20.1	48.7	68.8	74.5
70°	63.1	57.3	40.1	20.1	14.3	17.2	37.3	51.6	57.3
72.5°	45.9	43.0	31.5	17.2	11.5	14.3	25.8	37.3	43.0
75°	34.4	31.5	22.9	11.5	8.6	11.5	20.1	28.7	31.5
77.5°	22.9	22.9	17.2	8.6	8.6	8.6	14.3	20.1	20.1
80°	17.2	14.3	11.5	5.7	5.7	5.7	8.6	14.3	14.3
82.5°	11.5	8.6	8.6	5.7	5.7	5.7	5.7	8.6	8.6
85°	5.7	5.7	5.7	2.9	2.9	2.9	2.9	5.7	5.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	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)