

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: P857908

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857908
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 EU4409030 4LBMDSWWMH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

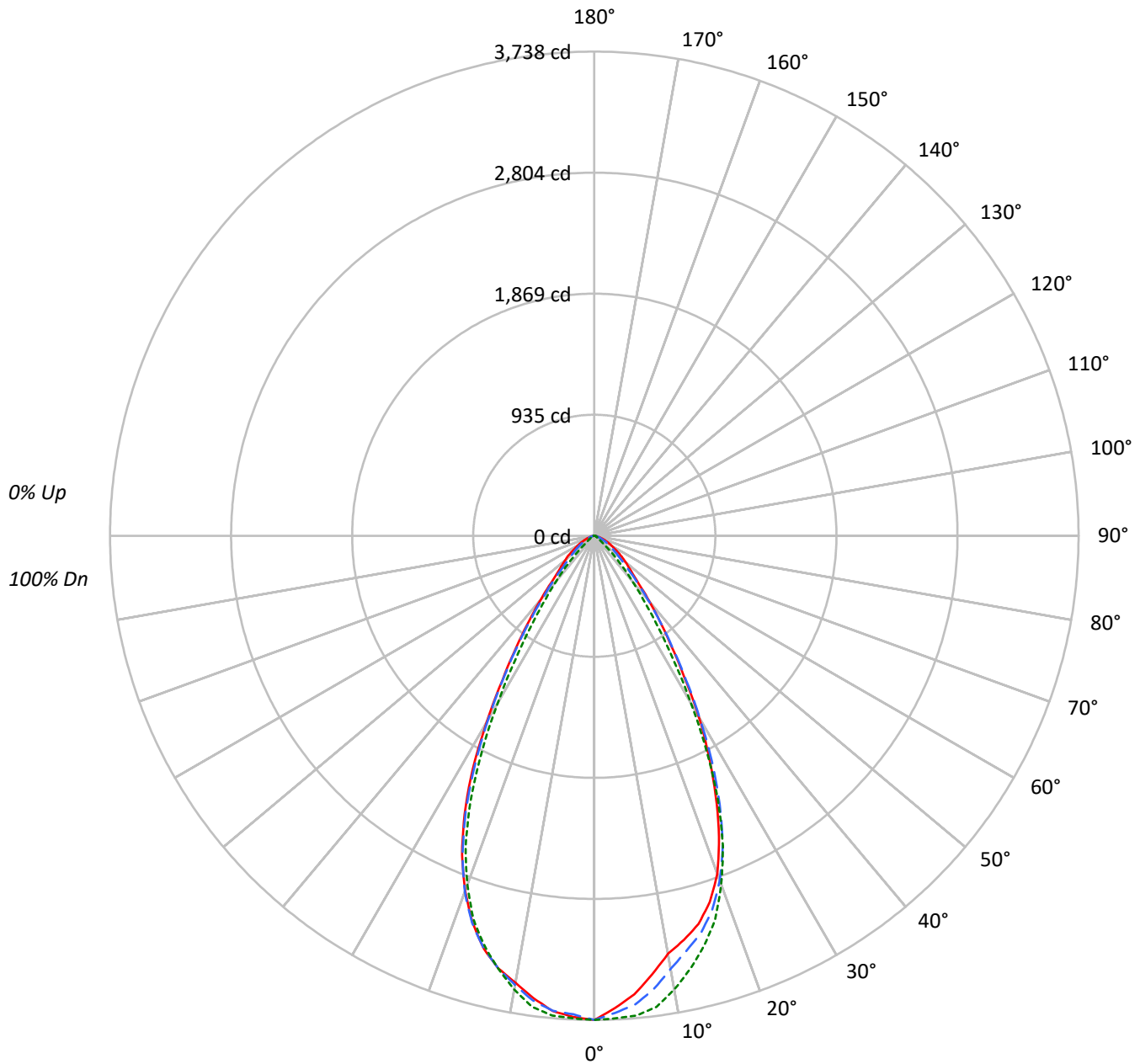
Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	459239	459239	459239
5°	438215	458502	454235
10°	408714	443644	437157
15°	394675	416704	419642
20°	363046	374368	381166
25°	300902	306379	321249
30°	228904	211710	235458
35°	154986	126850	156710
40°	105542	72681	102302
45°	73214	36607	69218
50°	59593	14889	55713
55°	48235	9274	43887
60°	38306	7101	34743
65°	30203	5872	26860
70°	22809	5172	20726
75°	16424	4130	15094
80°	12239	4103	10188
85°	8176	4088	8176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	10.1
10°-20°	903.0	26.5
20°-30°	1036.1	30.4
30°-40°	629.4	18.5
40°-50°	269.7	7.9
50°-60°	129.4	3.8
60°-70°	62.9	1.8
70°-80°	23.3	0.7
80°-90°	5.4	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°	2282.8	67.1
0°-40°	2912.2	85.6
0°-60°	3311.4	97.3
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3738	3738	3738	3738	3738	
5°	3553	3631	3718	3680	3683	330
15°	3103	3175	3276	3296	3299	864
25°	2220	2292	2260	2347	2370	1007
35°	1033	1048	846	1022	1045	662
45°	421	375	211	338	398	342
55°	225	167	43	150	205	203
65°	104	69	20	64	92	105
75°	35	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°	3738.1	3738.1	3738.1	3738.1	3738.1	3738.1	3738.1	3738.1	3738.1
2.5°	3648.7	3689.1	3686.2	3720.8	3729.5	3720.8	3697.7	3720.8	3717.9
5°	3553.4	3599.6	3631.3	3689.1	3717.9	3712.2	3680.4	3686.2	3683.3
7.5°	3414.8	3472.6	3527.4	3614.0	3668.9	3666.0	3619.8	3611.1	3599.6
10°	3276.3	3331.1	3394.6	3484.1	3556.3	3567.8	3521.7	3510.1	3504.3
12.5°	3195.5	3238.8	3282.1	3360.0	3423.5	3446.6	3420.6	3423.5	3420.6
15°	3103.1	3146.4	3175.3	3233.0	3276.3	3308.0	3296.5	3313.8	3299.4
17.5°	2964.5	3016.5	3028.0	3071.3	3103.1	3123.3	3134.8	3152.2	3129.1
20°	2776.9	2817.3	2831.8	2849.1	2863.5	2889.5	2924.1	2941.4	2915.5
22.5°	2514.2	2592.2	2589.3	2580.6	2595.1	2603.7	2658.6	2687.4	2667.2
25°	2219.8	2300.6	2292.0	2257.3	2260.2	2277.5	2346.8	2384.3	2369.9
27.5°	1910.9	1986.0	1965.8	1899.4	1882.1	1908.0	1997.5	2040.8	2032.2
30°	1613.6	1662.7	1630.9	1512.6	1492.4	1524.1	1639.6	1682.9	1659.8
32.5°	1293.2	1330.7	1316.3	1172.0	1137.3	1169.1	1304.7	1345.2	1319.2
35°	1033.4	1068.0	1047.8	877.5	845.8	880.4	1021.9	1068.0	1044.9
37.5°	828.5	854.4	828.5	646.6	617.7	652.4	788.0	848.7	819.8
40°	658.1	678.4	643.7	476.3	453.2	470.5	597.5	658.1	637.9
42.5°	519.6	534.0	496.5	349.3	323.3	346.4	450.3	505.2	493.6
45°	421.4	421.4	375.3	242.5	210.7	233.8	337.7	395.5	398.4
47.5°	360.8	352.2	294.4	161.6	121.2	153.0	268.5	329.1	337.7
50°	311.8	300.2	242.5	118.4	77.9	109.7	222.3	282.9	291.5
52.5°	268.5	259.8	202.1	92.4	54.8	83.7	187.6	245.4	254.0
55°	225.2	219.4	167.4	72.2	43.3	63.5	150.1	199.2	204.9
57.5°	184.7	176.1	135.7	60.6	34.6	52.0	124.1	164.5	170.3
60°	155.9	147.2	109.7	49.1	28.9	40.4	101.0	135.7	141.4
62.5°	129.9	121.2	89.5	40.4	23.1	34.6	80.8	109.7	115.5
65°	103.9	98.1	69.3	31.8	20.2	26.0	63.5	86.6	92.4
67.5°	83.7	77.9	54.8	26.0	17.3	20.2	49.1	69.3	75.1
70°	63.5	57.7	40.4	20.2	14.4	17.3	37.5	52.0	57.7
72.5°	46.2	43.3	31.8	17.3	11.5	14.4	26.0	37.5	43.3
75°	34.6	31.8	23.1	11.5	8.7	11.5	20.2	28.9	31.8
77.5°	23.1	23.1	17.3	8.7	8.7	8.7	14.4	20.2	20.2
80°	17.3	14.4	11.5	5.8	5.8	5.8	8.7	14.4	14.4
82.5°	11.5	8.7	8.7	5.8	5.8	5.8	5.8	8.7	8.7
85°	5.8	5.8	5.8	2.9	2.9	2.9	2.9	5.8	5.8
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)