

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: P857885

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857885
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 EU4409027 4LBMDSWMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

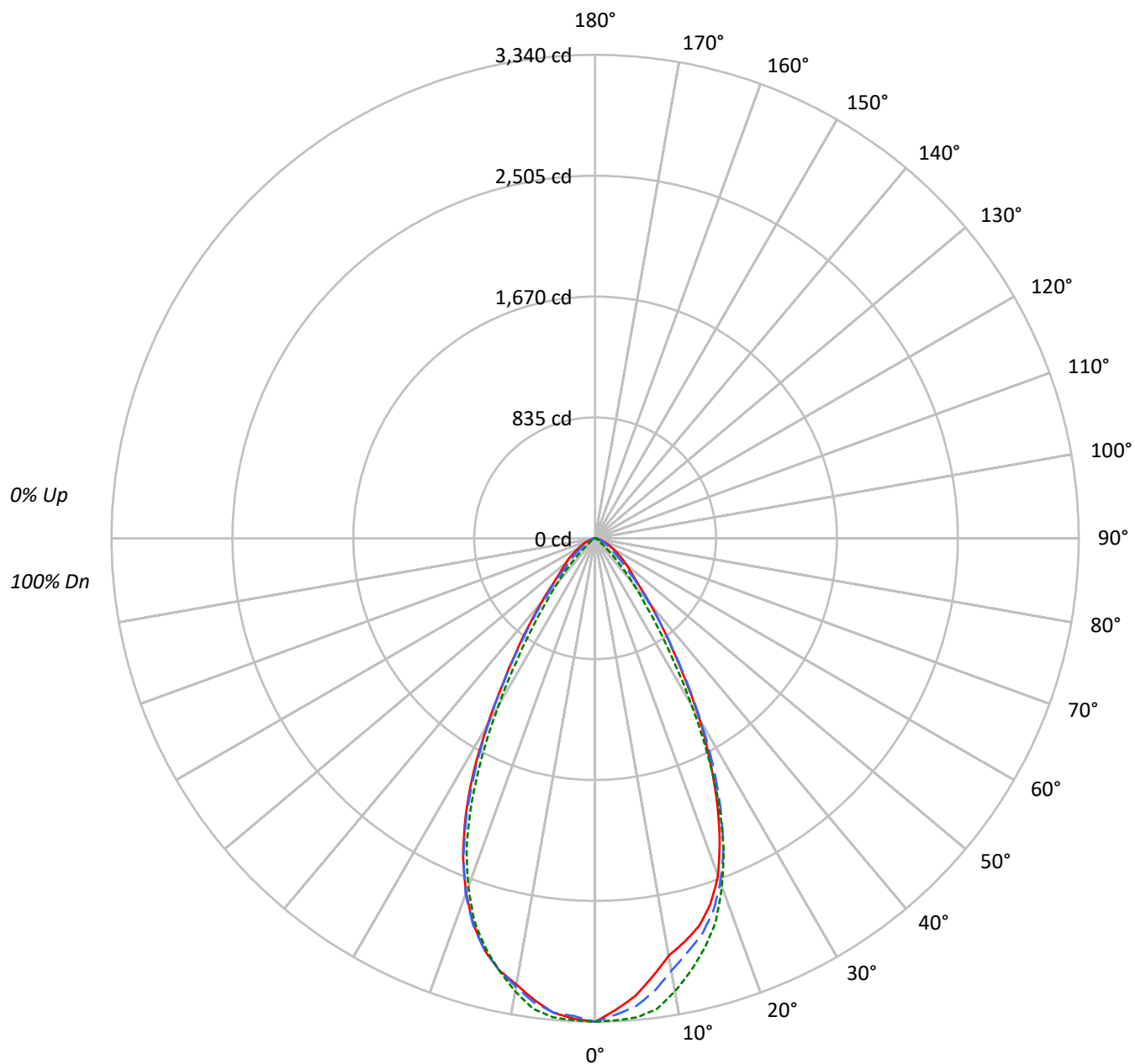
Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	410392	410392	410392
5°	391599	409728	405917
10°	365239	396451	390663
15°	352690	372379	374999
20°	324426	334545	340612
25°	268898	273792	287076
30°	204561	189183	210405
35°	138503	113352	140048
40°	94316	64951	91429
45°	65431	32715	61852
50°	53248	13302	49788
55°	43095	8289	39218
60°	34227	6339	31057
65°	27006	5262	23982
70°	20367	4634	18535
75°	14715	3655	13481
80°	10966	3679	9127
85°	7330	3665	7330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.1	10.1
10°-20°	807.0	26.5
20°-30°	925.9	30.4
30°-40°	562.5	18.5
40°-50°	241.0	7.9
50°-60°	115.6	3.8
60°-70°	56.2	1.8
70°-80°	20.9	0.7
80°-90°	4.8	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°	2040.0	67.1
0°-40°	2602.4	85.6
0°-60°	2959.1	97.3
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3340	3340	3340	3340	3340	
5°	3175	3245	3322	3289	3292	295
15°	2773	2838	2928	2946	2948	772
25°	1984	2048	2020	2097	2118	900
35°	924	936	756	913	934	592
45°	377	335	188	302	356	306
55°	201	150	39	134	183	182
65°	93	62	18	57	82	94
75°	31	21	8	18	28	34
85°	5	5	3	3	5	7
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°	3340.5	3340.5	3340.5	3340.5	3340.5	3340.5	3340.5	3340.5	3340.5
2.5°	3260.5	3296.6	3294.1	3325.0	3332.8	3325.0	3304.4	3325.0	3322.4
5°	3175.4	3216.7	3245.1	3296.6	3322.4	3317.3	3288.9	3294.1	3291.5
7.5°	3051.6	3103.2	3152.2	3229.6	3278.6	3276.0	3234.7	3227.0	3216.7
10°	2927.8	2976.8	3033.5	3113.5	3178.0	3188.3	3147.0	3136.7	3131.6
12.5°	2855.5	2894.2	2932.9	3002.6	3059.3	3080.0	3056.7	3059.3	3056.7
15°	2773.0	2811.7	2837.5	2889.1	2927.8	2956.1	2945.8	2961.3	2948.4
17.5°	2649.2	2695.6	2705.9	2744.6	2773.0	2791.1	2801.4	2816.8	2796.2
20°	2481.5	2517.6	2530.5	2546.0	2558.9	2582.1	2613.1	2628.5	2605.3
22.5°	2246.8	2316.4	2313.8	2306.1	2319.0	2326.7	2375.7	2401.5	2383.5
25°	1983.7	2055.9	2048.1	2017.2	2019.8	2035.3	2097.2	2130.7	2117.8
27.5°	1707.7	1774.7	1756.7	1697.3	1681.9	1705.1	1785.0	1823.7	1816.0
30°	1442.0	1485.8	1457.4	1351.7	1333.6	1362.0	1465.2	1503.9	1483.2
32.5°	1155.6	1189.2	1176.3	1047.3	1016.3	1044.7	1165.9	1202.1	1178.8
35°	923.5	954.4	936.4	784.2	755.8	786.8	913.2	954.4	933.8
37.5°	740.3	763.5	740.3	577.8	552.0	583.0	704.2	758.4	732.6
40°	588.1	606.2	575.2	425.6	405.0	420.5	534.0	588.1	570.1
42.5°	464.3	477.2	443.7	312.1	288.9	309.5	402.4	451.4	441.1
45°	376.6	376.6	335.3	216.7	188.3	208.9	301.8	353.4	356.0
47.5°	322.4	314.7	263.1	144.5	108.3	136.7	239.9	294.1	301.8
50°	278.6	268.3	216.7	105.8	69.6	98.0	198.6	252.8	260.5
52.5°	239.9	232.2	180.6	82.5	49.0	74.8	167.7	219.3	227.0
55°	201.2	196.0	149.6	64.5	38.7	56.7	134.1	178.0	183.1
57.5°	165.1	157.4	121.2	54.2	31.0	46.4	110.9	147.0	152.2
60°	139.3	131.6	98.0	43.9	25.8	36.1	90.3	121.2	126.4
62.5°	116.1	108.3	80.0	36.1	20.6	31.0	72.2	98.0	103.2
65°	92.9	87.7	61.9	28.4	18.1	23.2	56.7	77.4	82.5
67.5°	74.8	69.6	49.0	23.2	15.5	18.1	43.9	61.9	67.1
70°	56.7	51.6	36.1	18.1	12.9	15.5	33.5	46.4	51.6
72.5°	41.3	38.7	28.4	15.5	10.3	12.9	23.2	33.5	38.7
75°	31.0	28.4	20.6	10.3	7.7	10.3	18.1	25.8	28.4
77.5°	20.6	20.6	15.5	7.7	7.7	7.7	12.9	18.1	18.1
80°	15.5	12.9	10.3	5.2	5.2	5.2	7.7	12.9	12.9
82.5°	10.3	7.7	7.7	5.2	5.2	5.2	5.2	7.7	7.7
85°	5.2	5.2	5.2	2.6	2.6	2.6	2.6	5.2	5.2
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)