

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: P857971

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857971
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 EU4409050 4LBMDSWWMH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

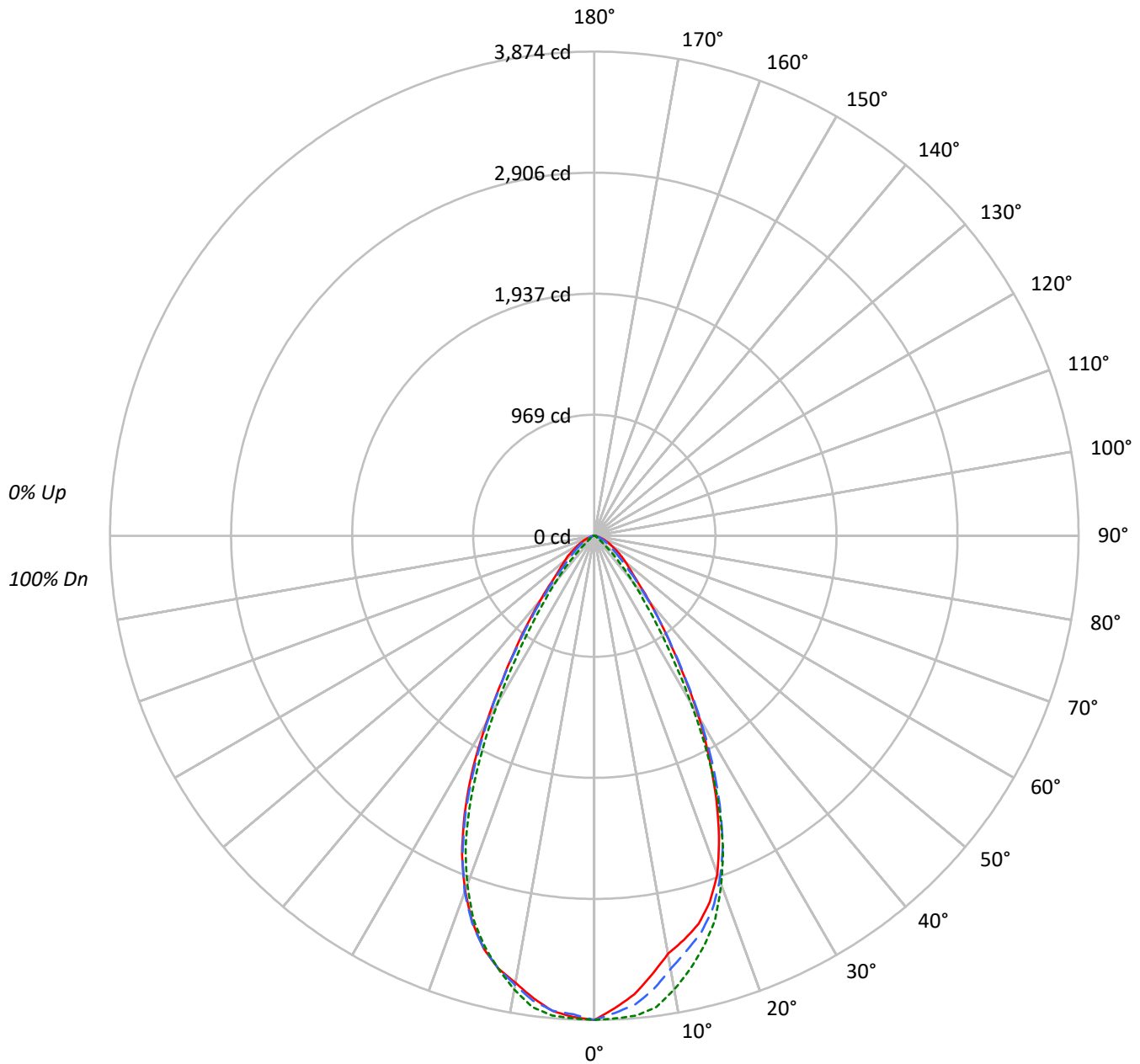
Lumens per Lamp: N/A
Luminaire Lumens: 3527.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	475984	475984	475984
5°	454185	475212	470785
10°	423609	459811	453087
15°	409060	431890	434930
20°	376277	388004	395051
25°	311869	317548	332961
30°	237245	219427	244040
35°	160640	131469	162424
40°	109391	75328	106039
45°	75890	37945	71738
50°	61753	15443	57758
55°	49992	9617	45494
60°	39706	7347	36021
65°	31308	6076	27820
70°	23635	5388	21480
75°	17041	4272	15617
80°	12735	4245	10612
85°	8458	4229	8458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	10.1
10°-20°	935.9	26.5
20°-30°	1073.8	30.4
30°-40°	652.3	18.5
40°-50°	279.6	7.9
50°-60°	134.1	3.8
60°-70°	65.2	1.8
70°-80°	24.2	0.7
80°-90°	5.6	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°	2366.0	67.1
0°-40°	3018.3	85.6
0°-60°	3432.0	97.3
0°-90°	3527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3527.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3874	3874	3874	3874	3874	
5°	3683	3764	3853	3814	3818	342
15°	3216	3291	3396	3417	3420	895
25°	2301	2376	2343	2432	2456	1044
35°	1071	1086	877	1059	1083	686
45°	437	389	218	350	413	355
55°	233	174	45	156	212	211
65°	108	72	21	66	96	109
75°	36	24	9	21	33	39
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°	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4	3874.4
2.5°	3781.6	3823.5	3820.5	3856.4	3865.4	3856.4	3832.5	3856.4	3853.4
5°	3682.9	3730.8	3763.7	3823.5	3853.4	3847.4	3814.5	3820.5	3817.5
7.5°	3539.3	3599.1	3656.0	3745.7	3802.6	3799.6	3751.7	3742.7	3730.8
10°	3395.7	3452.5	3518.3	3611.1	3685.9	3697.8	3650.0	3638.0	3632.0
12.5°	3311.9	3356.8	3401.7	3482.4	3548.3	3572.2	3545.3	3548.3	3545.3
15°	3216.2	3261.0	3291.0	3350.8	3395.7	3428.6	3416.6	3434.6	3419.6
17.5°	3072.6	3126.4	3138.4	3183.3	3216.2	3237.1	3249.1	3267.0	3243.1
20°	2878.1	2920.0	2934.9	2952.9	2967.8	2994.8	3030.7	3048.6	3021.7
22.5°	2605.8	2686.6	2683.6	2674.7	2689.6	2698.6	2755.4	2785.3	2764.4
25°	2300.7	2384.5	2375.5	2339.6	2342.6	2360.5	2432.3	2471.2	2456.3
27.5°	1980.6	2058.3	2037.4	1968.6	1950.6	1977.6	2070.3	2115.2	2106.2
30°	1672.4	1723.3	1690.4	1567.7	1546.8	1579.7	1699.3	1744.2	1720.3
32.5°	1340.3	1379.2	1364.3	1214.7	1178.8	1211.7	1352.3	1394.2	1367.2
35°	1071.1	1107.0	1086.0	909.5	876.6	912.5	1059.1	1107.0	1083.0
37.5°	858.6	885.6	858.6	670.2	640.2	676.1	816.8	879.6	849.7
40°	682.1	703.1	667.2	493.6	469.7	487.7	619.3	682.1	661.2
42.5°	538.5	553.5	514.6	362.0	335.1	359.0	466.7	523.6	511.6
45°	436.8	436.8	388.9	251.3	218.4	242.3	350.0	409.9	412.9
47.5°	374.0	365.0	305.2	167.5	125.7	158.6	278.2	341.1	350.0
50°	323.1	311.1	251.3	122.7	80.8	113.7	230.4	293.2	302.2
52.5°	278.2	269.3	209.4	95.7	56.8	86.8	194.5	254.3	263.3
55°	233.4	227.4	173.5	74.8	44.9	65.8	155.6	206.4	212.4
57.5°	191.5	182.5	140.6	62.8	35.9	53.9	128.6	170.5	176.5
60°	161.6	152.6	113.7	50.9	29.9	41.9	104.7	140.6	146.6
62.5°	134.6	125.7	92.7	41.9	23.9	35.9	83.8	113.7	119.7
65°	107.7	101.7	71.8	32.9	20.9	26.9	65.8	89.8	95.7
67.5°	86.8	80.8	56.8	26.9	18.0	20.9	50.9	71.8	77.8
70°	65.8	59.8	41.9	20.9	15.0	18.0	38.9	53.9	59.8
72.5°	47.9	44.9	32.9	18.0	12.0	15.0	26.9	38.9	44.9
75°	35.9	32.9	23.9	12.0	9.0	12.0	20.9	29.9	32.9
77.5°	23.9	23.9	18.0	9.0	9.0	9.0	15.0	20.9	20.9
80°	18.0	15.0	12.0	6.0	6.0	6.0	9.0	15.0	15.0
82.5°	12.0	9.0	9.0	6.0	6.0	6.0	6.0	9.0	9.0
85°	6.0	6.0	6.0	3.0	3.0	3.0	3.0	6.0	6.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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)