

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: P856738

Luminaire Tested: **LD4C10D010 EU4109035 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856738
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: LD4C10D010 EU4109035 4LBMDSWWMH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

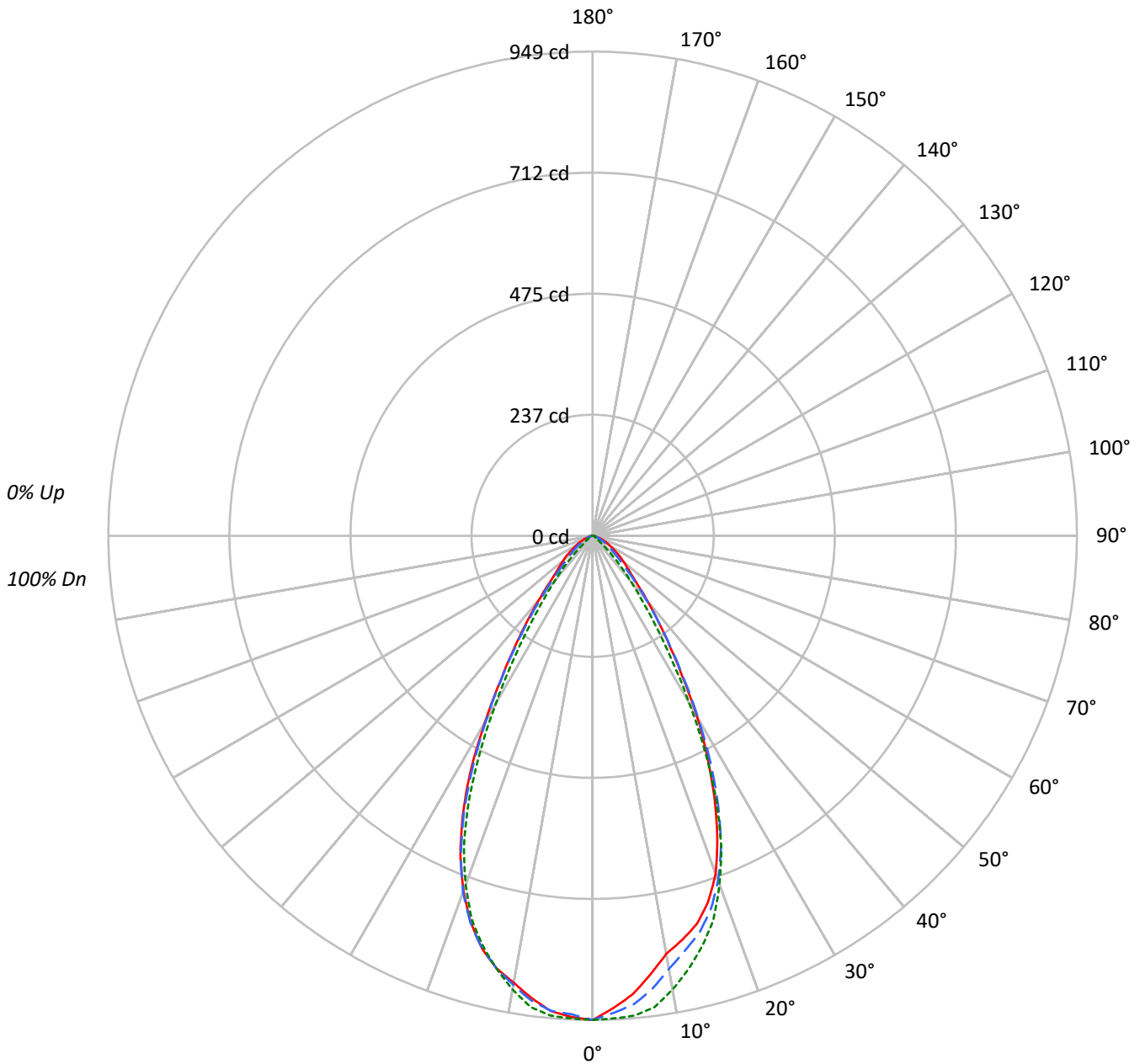
Lumens per Lamp: N/A
Luminaire Lumens: 864.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (A_{in}): 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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	116600	116600	116600
5°	111262	116417	115331
10°	103766	112636	110989
15°	100211	105794	106545
20°	92170	95046	96772
25°	76398	77794	81563
30°	58120	53750	59779
35°	39354	32200	39789
40°	26798	18459	25981
45°	18590	9295	17565
50°	15137	3784	14143
55°	12252	2356	11138
60°	9730	1794	8821
65°	7674	1483	6831
70°	5783	1329	5280
75°	4177	1044	3845
80°	3113	1061	2618
85°	2114	987	2114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	10.1
10°-20°	229.3	26.5
20°-30°	263.1	30.4
30°-40°	159.8	18.5
40°-50°	68.5	7.9
50°-60°	32.9	3.8
60°-70°	16.0	1.8
70°-80°	5.9	0.7
80°-90°	1.4	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°	579.6	67.1
0°-40°	739.4	85.6
0°-60°	840.7	97.3
0°-90°	864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	864.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	949	949	949	949	949	
5°	902	922	944	934	935	84
15°	788	806	832	837	838	219
25°	564	582	574	596	602	256
35°	262	266	215	259	265	168
45°	107	95	54	86	101	87
55°	57	42	11	38	52	52
65°	26	18	5	16	24	27
75°	9	6	2	5	8	10
85°	2	2	1	1	2	2
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°	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1	949.1
2.5°	926.4	936.6	935.9	944.7	946.9	944.7	938.8	944.7	944.0
5°	902.2	913.9	922.0	936.6	944.0	942.5	934.4	935.9	935.2
7.5°	867.0	881.7	895.6	917.6	931.5	930.8	919.0	916.8	913.9
10°	831.8	845.8	861.9	884.6	902.9	905.9	894.1	891.2	889.7
12.5°	811.3	822.3	833.3	853.1	869.2	875.1	868.5	869.2	868.5
15°	787.9	798.8	806.2	820.8	831.8	839.9	837.0	841.4	837.7
17.5°	752.7	765.9	768.8	779.8	787.9	793.0	795.9	800.3	794.5
20°	705.0	715.3	719.0	723.4	727.0	733.6	742.4	746.8	740.2
22.5°	638.3	658.1	657.4	655.2	658.9	661.1	675.0	682.3	677.2
25°	563.6	584.1	581.9	573.1	573.9	578.2	595.8	605.4	601.7
27.5°	485.2	504.2	499.1	482.2	477.8	484.4	507.2	518.2	516.0
30°	409.7	422.1	414.1	384.0	378.9	387.0	416.3	427.3	421.4
32.5°	328.3	337.9	334.2	297.6	288.8	296.8	331.3	341.5	334.9
35°	262.4	271.2	266.0	222.8	214.7	223.5	259.4	271.2	265.3
37.5°	210.3	216.9	210.3	164.2	156.8	165.6	200.1	215.5	208.1
40°	167.1	172.2	163.4	120.9	115.1	119.5	151.7	167.1	162.0
42.5°	131.9	135.6	126.1	88.7	82.1	87.9	114.3	128.3	125.3
45°	107.0	107.0	95.3	61.6	53.5	59.4	85.7	100.4	101.1
47.5°	91.6	89.4	74.8	41.0	30.8	38.8	68.2	83.5	85.7
50°	79.2	76.2	61.6	30.0	19.8	27.8	56.4	71.8	74.0
52.5°	68.2	66.0	51.3	23.5	13.9	21.3	47.6	62.3	64.5
55°	57.2	55.7	42.5	18.3	11.0	16.1	38.1	50.6	52.0
57.5°	46.9	44.7	34.4	15.4	8.8	13.2	31.5	41.8	43.2
60°	39.6	37.4	27.8	12.5	7.3	10.3	25.7	34.4	35.9
62.5°	33.0	30.8	22.7	10.3	5.9	8.8	20.5	27.8	29.3
65°	26.4	24.9	17.6	8.1	5.1	6.6	16.1	22.0	23.5
67.5°	21.3	19.8	13.9	6.6	4.4	5.1	12.5	17.6	19.1
70°	16.1	14.7	10.3	5.1	3.7	4.4	9.5	13.2	14.7
72.5°	11.7	11.0	8.1	4.4	2.9	3.7	6.6	9.5	11.0
75°	8.8	8.1	5.9	2.9	2.2	2.9	5.1	7.3	8.1
77.5°	5.9	5.9	4.4	2.2	2.2	2.2	3.7	5.1	5.1
80°	4.4	3.7	2.9	1.5	1.5	1.5	2.2	3.7	3.7
82.5°	2.9	2.2	2.2	1.5	1.5	1.5	1.5	2.2	2.2
85°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)