

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: P856689

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856689
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 EU4109027 4LBMDSWMW
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

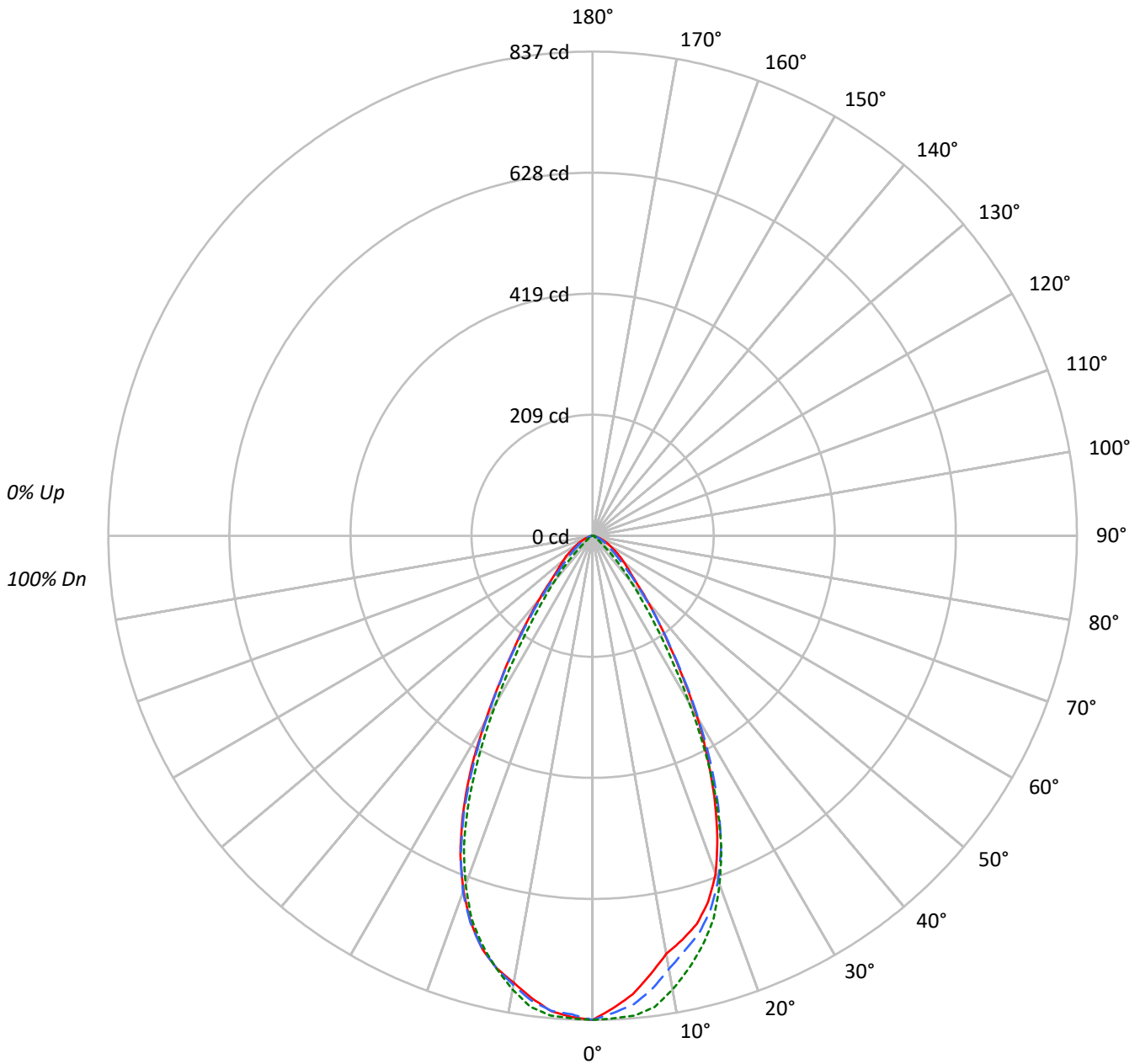
Lumens per Lamp: N/A
Luminaire Lumens: 762.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	102828	102828	102828
5°	98128	102666	101717
10°	91516	99337	97890
15°	88370	93305	93966
20°	81293	83829	85346
25°	67384	68604	71938
30°	51254	47409	52729
35°	34705	28406	35094
40°	23639	16278	22901
45°	16401	8201	15498
50°	13341	3345	12481
55°	10795	2078	9831
60°	8575	1597	7789
65°	6773	1308	6017
70°	5101	1149	4634
75°	3702	902	3370
80°	2759	920	2264
85°	1832	846	1832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	10.1
10°-20°	202.2	26.5
20°-30°	232.0	30.4
30°-40°	140.9	18.5
40°-50°	60.4	7.9
50°-60°	29.0	3.8
60°-70°	14.1	1.8
70°-80°	5.2	0.7
80°-90°	1.2	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°	511.2	67.1
0°-40°	652.1	85.6
0°-60°	741.5	97.3
0°-90°	762.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	762.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	837	837	837	837	837	
5°	796	813	832	824	825	74
15°	695	711	734	738	739	193
25°	497	513	506	526	531	225
35°	231	235	189	229	234	148
45°	94	84	47	76	89	77
55°	50	38	10	34	46	46
65°	23	16	4	14	21	24
75°	8	5	2	4	7	9
85°	1	1	1	1	1	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°	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0
2.5°	817.0	826.1	825.4	833.2	835.1	833.2	828.0	833.2	832.5
5°	795.7	806.0	813.1	826.1	832.5	831.2	824.1	825.4	824.8
7.5°	764.7	777.6	789.9	809.3	821.5	820.9	810.5	808.6	806.0
10°	733.6	745.9	760.1	780.2	796.3	798.9	788.6	786.0	784.7
12.5°	715.5	725.2	734.9	752.4	766.6	771.8	765.9	766.6	765.9
15°	694.8	704.5	711.0	723.9	733.6	740.7	738.2	742.0	738.8
17.5°	663.8	675.5	678.0	687.7	694.8	699.4	702.0	705.8	700.7
20°	621.8	630.9	634.1	638.0	641.2	647.0	654.8	658.6	652.8
22.5°	563.0	580.4	579.8	577.9	581.1	583.0	595.3	601.8	597.2
25°	497.1	515.2	513.2	505.5	506.1	510.0	525.5	533.9	530.7
27.5°	427.9	444.7	440.2	425.3	421.4	427.2	447.3	457.0	455.0
30°	361.3	372.3	365.2	338.7	334.2	341.3	367.1	376.8	371.7
32.5°	289.6	298.0	294.7	262.4	254.7	261.8	292.2	301.2	295.4
35°	231.4	239.2	234.6	196.5	189.4	197.1	228.8	239.2	234.0
37.5°	185.5	191.3	185.5	144.8	138.3	146.1	176.5	190.0	183.6
40°	147.4	151.9	144.1	106.7	101.5	105.4	133.8	147.4	142.8
42.5°	116.3	119.6	111.2	78.2	72.4	77.6	100.8	113.1	110.5
45°	94.4	94.4	84.0	54.3	47.2	52.4	75.6	88.6	89.2
47.5°	80.8	78.9	65.9	36.2	27.1	34.3	60.1	73.7	75.6
50°	69.8	67.2	54.3	26.5	17.5	24.6	49.8	63.3	65.3
52.5°	60.1	58.2	45.2	20.7	12.3	18.7	42.0	54.9	56.9
55°	50.4	49.1	37.5	16.2	9.7	14.2	33.6	44.6	45.9
57.5°	41.4	39.4	30.4	13.6	7.8	11.6	27.8	36.8	38.1
60°	34.9	33.0	24.6	11.0	6.5	9.0	22.6	30.4	31.7
62.5°	29.1	27.1	20.0	9.0	5.2	7.8	18.1	24.6	25.9
65°	23.3	22.0	15.5	7.1	4.5	5.8	14.2	19.4	20.7
67.5°	18.7	17.5	12.3	5.8	3.9	4.5	11.0	15.5	16.8
70°	14.2	12.9	9.0	4.5	3.2	3.9	8.4	11.6	12.9
72.5°	10.3	9.7	7.1	3.9	2.6	3.2	5.8	8.4	9.7
75°	7.8	7.1	5.2	2.6	1.9	2.6	4.5	6.5	7.1
77.5°	5.2	5.2	3.9	1.9	1.9	1.9	3.2	4.5	4.5
80°	3.9	3.2	2.6	1.3	1.3	1.3	1.9	3.2	3.2
82.5°	2.6	1.9	1.9	1.3	1.3	1.3	1.3	1.9	1.9
85°	1.3	1.3	1.3	0.6	0.6	0.6	0.6	1.3	1.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)