

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: P858953

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDSWWMH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858953
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: LD4C50D010 EU4509027 4LBMDSWWMH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

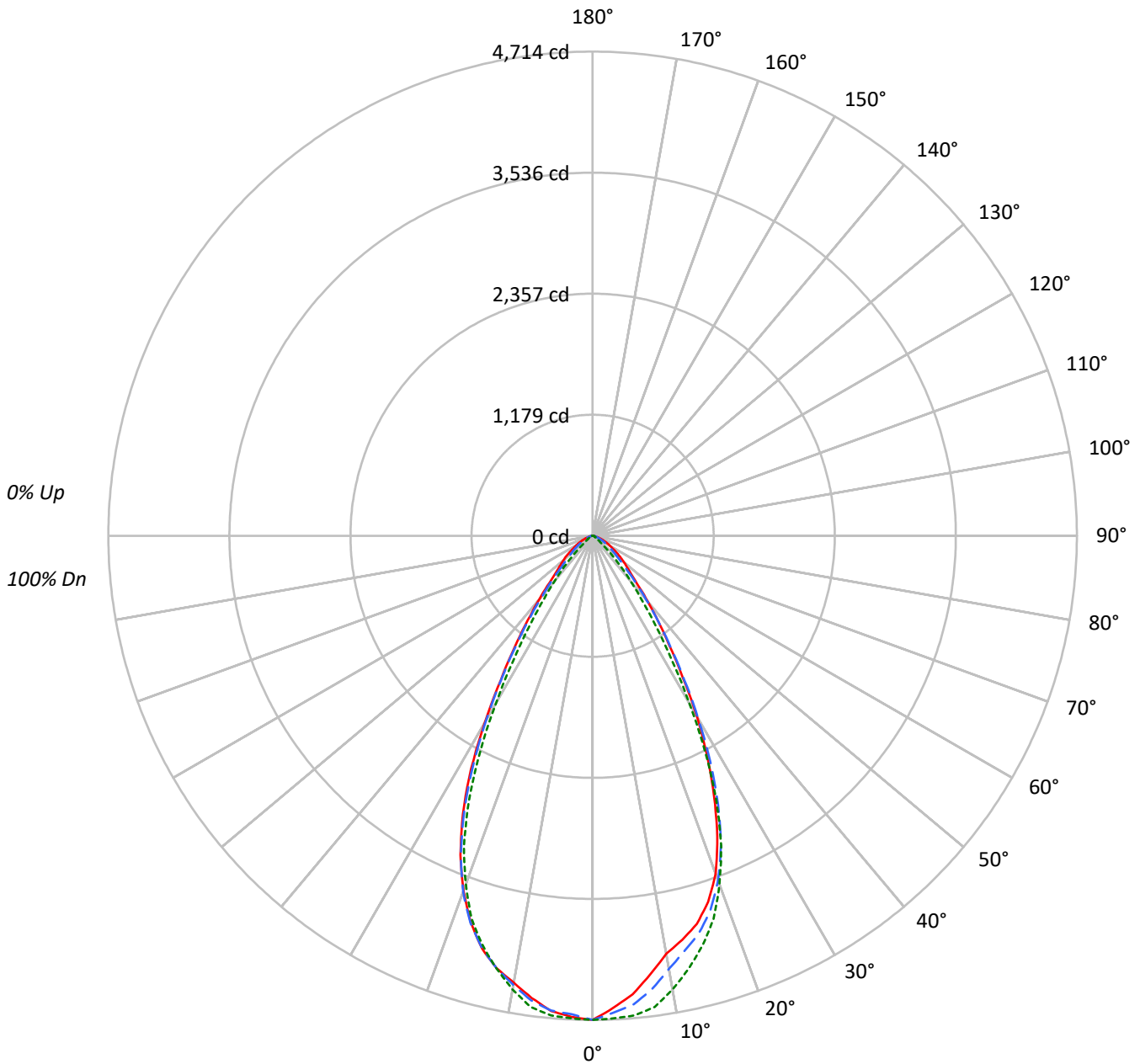
Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	579082	579082	579082
5°	552572	578149	572760
10°	515362	559411	551240
15°	497658	525436	529137
20°	457779	472055	480619
25°	379415	386328	405075
30°	288640	266950	296897
35°	195434	159950	197609
40°	133094	91654	129005
45°	92326	46163	87270
50°	75132	18788	70258
55°	60808	11695	55346
60°	48306	8944	43834
65°	38081	7413	33866
70°	28772	6537	26150
75°	20743	5174	18987
80°	15423	5165	12876
85°	10290	5075	10290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.4	10.1
10°-20°	1138.7	26.5
20°-30°	1306.4	30.4
30°-40°	793.6	18.5
40°-50°	340.1	7.9
50°-60°	163.2	3.8
60°-70°	79.3	1.8
70°-80°	29.4	0.7
80°-90°	6.8	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°	2878.5	67.1
0°-40°	3672.1	85.6
0°-60°	4175.4	97.3
0°-90°	4291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4291.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4714	4714	4714	4714	4714	
5°	4481	4579	4688	4641	4644	416
15°	3913	4004	4131	4157	4160	1089
25°	2799	2890	2850	2959	2988	1270
35°	1303	1321	1066	1288	1318	835
45°	531	473	266	426	502	432
55°	284	211	55	189	258	256
65°	131	87	26	80	116	133
75°	44	29	11	26	40	48
85°	7	7	4	4	7	10
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°	4713.6	4713.6	4713.6	4713.6	4713.6	4713.6	4713.6	4713.6	4713.6
2.5°	4600.8	4651.7	4648.1	4691.8	4702.7	4691.8	4662.6	4691.8	4688.1
5°	4480.7	4538.9	4578.9	4651.7	4688.1	4680.8	4640.8	4648.1	4644.4
7.5°	4305.9	4378.7	4447.9	4557.1	4626.2	4622.6	4564.4	4553.4	4538.9
10°	4131.2	4200.4	4280.5	4393.3	4484.3	4498.9	4440.6	4426.1	4418.8
12.5°	4029.3	4083.9	4138.5	4236.8	4316.9	4346.0	4313.2	4316.9	4313.2
15°	3912.8	3967.4	4003.8	4076.6	4131.2	4171.3	4156.7	4178.5	4160.3
17.5°	3738.1	3803.6	3818.2	3872.8	3912.8	3938.3	3952.9	3974.7	3945.6
20°	3501.5	3552.5	3570.7	3592.5	3610.7	3643.5	3687.2	3709.0	3676.2
22.5°	3170.3	3268.6	3264.9	3254.0	3272.2	3283.1	3352.3	3388.7	3363.2
25°	2799.0	2901.0	2890.0	2846.4	2850.0	2871.8	2959.2	3006.5	2988.3
27.5°	2409.6	2504.2	2478.7	2395.0	2373.2	2405.9	2518.8	2573.4	2562.5
30°	2034.7	2096.6	2056.5	1907.3	1881.8	1921.8	2067.4	2122.0	2092.9
32.5°	1630.7	1678.0	1659.8	1477.8	1434.1	1474.1	1645.2	1696.2	1663.4
35°	1303.1	1346.7	1321.3	1106.5	1066.5	1110.2	1288.5	1346.7	1317.6
37.5°	1044.6	1077.4	1044.6	815.3	778.9	822.6	993.7	1070.1	1033.7
40°	829.9	855.4	811.7	600.6	571.5	593.3	753.4	829.9	804.4
42.5°	655.2	673.4	626.1	440.4	407.7	436.8	567.8	637.0	622.4
45°	531.4	531.4	473.2	305.7	265.7	294.8	425.9	498.7	502.3
47.5°	455.0	444.1	371.3	203.8	152.9	192.9	338.5	414.9	425.9
50°	393.1	378.5	305.7	149.2	98.3	138.3	280.3	356.7	367.6
52.5°	338.5	327.6	254.8	116.5	69.2	105.6	236.6	309.4	320.3
55°	283.9	276.6	211.1	91.0	54.6	80.1	189.3	251.1	258.4
57.5°	233.0	222.0	171.1	76.4	43.7	65.5	156.5	207.5	214.8
60°	196.6	185.6	138.3	61.9	36.4	51.0	127.4	171.1	178.4
62.5°	163.8	152.9	112.8	51.0	29.1	43.7	101.9	138.3	145.6
65°	131.0	123.8	87.4	40.0	25.5	32.8	80.1	109.2	116.5
67.5°	105.6	98.3	69.2	32.8	21.8	25.5	61.9	87.4	94.6
70°	80.1	72.8	51.0	25.5	18.2	21.8	47.3	65.5	72.8
72.5°	58.2	54.6	40.0	21.8	14.6	18.2	32.8	47.3	54.6
75°	43.7	40.0	29.1	14.6	10.9	14.6	25.5	36.4	40.0
77.5°	29.1	29.1	21.8	10.9	10.9	10.9	18.2	25.5	25.5
80°	21.8	18.2	14.6	7.3	7.3	7.3	10.9	18.2	18.2
82.5°	14.6	10.9	10.9	7.3	7.3	7.3	7.3	10.9	10.9
85°	7.3	7.3	7.3	3.6	3.6	3.6	3.6	7.3	7.3
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)