

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: P858142

Luminaire Tested: **LD4C45D010 EU4459035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P858142
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: LD4C45D010 EU4459035 4LBMDSWMW
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

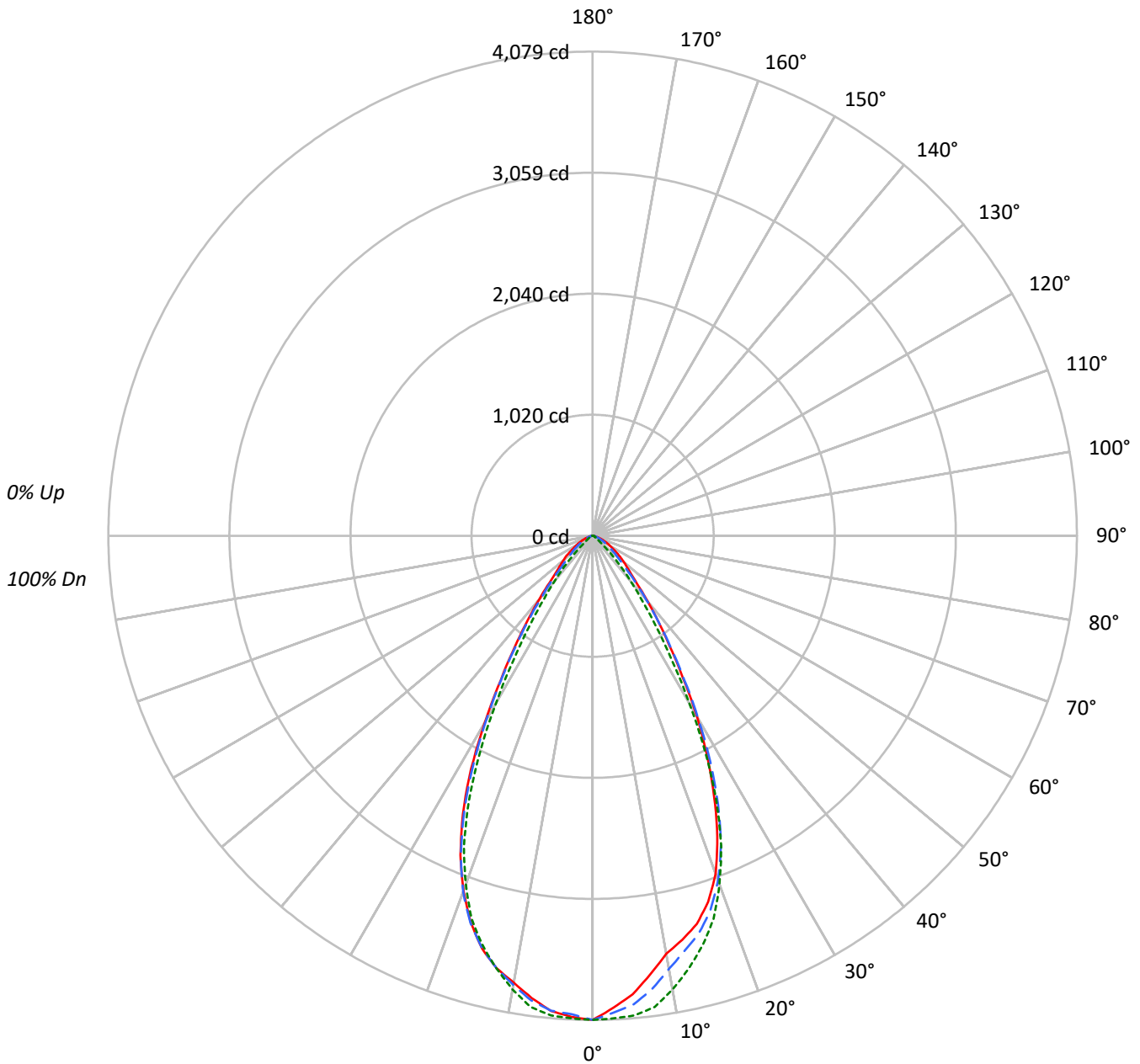
Lumens per Lamp: N/A
Luminaire Lumens: 3712.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	501082	501082	501082
5°	478135	500271	495609
10°	445939	484062	476989
15°	430631	454656	457861
20°	396123	408478	415890
25°	328311	334289	350515
30°	249757	230989	256907
35°	169098	138398	170988
40°	115164	79305	111636
45°	79886	39943	75508
50°	65021	16246	60797
55°	52626	10110	47893
60°	41795	7740	37913
65°	32965	6395	29302
70°	24893	5639	22630
75°	17943	4462	16424
80°	13371	4457	11108
85°	8880	4370	8880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.0	10.1
10°-20°	985.3	26.5
20°-30°	1130.5	30.4
30°-40°	686.7	18.5
40°-50°	294.3	7.9
50°-60°	141.2	3.8
60°-70°	68.6	1.8
70°-80°	25.4	0.7
80°-90°	5.8	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°	2490.8	67.1
0°-40°	3177.5	85.6
0°-60°	3613.0	97.3
0°-90°	3712.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4079	4079	4079	4079	4079	
5°	3877	3962	4057	4016	4019	360
15°	3386	3464	3575	3597	3600	943
25°	2422	2501	2466	2561	2586	1099
35°	1128	1143	923	1115	1140	723
45°	460	409	230	368	435	374
55°	246	183	47	164	224	222
65°	113	76	22	69	101	115
75°	38	25	9	22	35	41
85°	6	6	3	3	6	9
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°	4078.7	4078.7	4078.7	4078.7	4078.7	4078.7	4078.7	4078.7	4078.7
2.5°	3981.0	4025.1	4022.0	4059.8	4069.2	4059.8	4034.6	4059.8	4056.6
5°	3877.1	3927.5	3962.1	4025.1	4056.6	4050.3	4015.7	4022.0	4018.8
7.5°	3725.9	3788.9	3848.8	3943.2	4003.1	3999.9	3949.5	3940.1	3927.5
10°	3574.7	3634.6	3703.9	3801.5	3880.3	3892.9	3842.5	3829.9	3823.6
12.5°	3486.6	3533.8	3581.0	3666.1	3735.4	3760.6	3732.2	3735.4	3732.2
15°	3385.8	3433.0	3464.5	3527.5	3574.7	3609.4	3596.8	3615.7	3599.9
17.5°	3234.6	3291.3	3303.9	3351.1	3385.8	3407.8	3420.4	3439.3	3414.1
20°	3029.9	3074.0	3089.7	3108.6	3124.4	3152.7	3190.5	3209.4	3181.1
22.5°	2743.3	2828.3	2825.2	2815.7	2831.5	2840.9	2900.7	2932.2	2910.2
25°	2422.0	2510.2	2500.7	2463.0	2466.1	2485.0	2560.6	2601.5	2585.8
27.5°	2085.0	2166.9	2144.8	2072.4	2053.5	2081.9	2179.5	2226.7	2217.3
30°	1760.6	1814.1	1779.5	1650.4	1628.3	1663.0	1788.9	1836.2	1811.0
32.5°	1411.0	1451.9	1436.2	1278.7	1240.9	1275.6	1423.6	1467.7	1439.3
35°	1127.5	1165.3	1143.3	957.5	922.8	960.6	1114.9	1165.3	1140.1
37.5°	903.9	932.3	903.9	705.5	674.0	711.8	859.8	926.0	894.5
40°	718.1	740.1	702.4	519.7	494.5	513.4	652.0	718.1	696.1
42.5°	566.9	582.7	541.7	381.1	352.8	377.9	491.3	551.2	538.6
45°	459.8	459.8	409.4	264.6	229.9	255.1	368.5	431.5	434.6
47.5°	393.7	384.2	321.3	176.4	132.3	166.9	292.9	359.0	368.5
50°	340.2	327.6	264.6	129.1	85.0	119.7	242.5	308.7	318.1
52.5°	292.9	283.5	220.5	100.8	59.8	91.3	204.7	267.7	277.2
55°	245.7	239.4	182.7	78.7	47.2	69.3	163.8	217.3	223.6
57.5°	201.6	192.1	148.0	66.1	37.8	56.7	135.4	179.5	185.8
60°	170.1	160.6	119.7	53.5	31.5	44.1	110.2	148.0	154.3
62.5°	141.7	132.3	97.6	44.1	25.2	37.8	88.2	119.7	126.0
65°	113.4	107.1	75.6	34.6	22.0	28.3	69.3	94.5	100.8
67.5°	91.3	85.0	59.8	28.3	18.9	22.0	53.5	75.6	81.9
70°	69.3	63.0	44.1	22.0	15.7	18.9	40.9	56.7	63.0
72.5°	50.4	47.2	34.6	18.9	12.6	15.7	28.3	40.9	47.2
75°	37.8	34.6	25.2	12.6	9.4	12.6	22.0	31.5	34.6
77.5°	25.2	25.2	18.9	9.4	9.4	9.4	15.7	22.0	22.0
80°	18.9	15.7	12.6	6.3	6.3	6.3	9.4	15.7	15.7
82.5°	12.6	9.4	9.4	6.3	6.3	6.3	6.3	9.4	9.4
85°	6.3	6.3	6.3	3.1	3.1	3.1	3.1	6.3	6.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)