

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: P859455

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859455
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: LD4C70D010 EU4709030 4LBMDSWWMH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

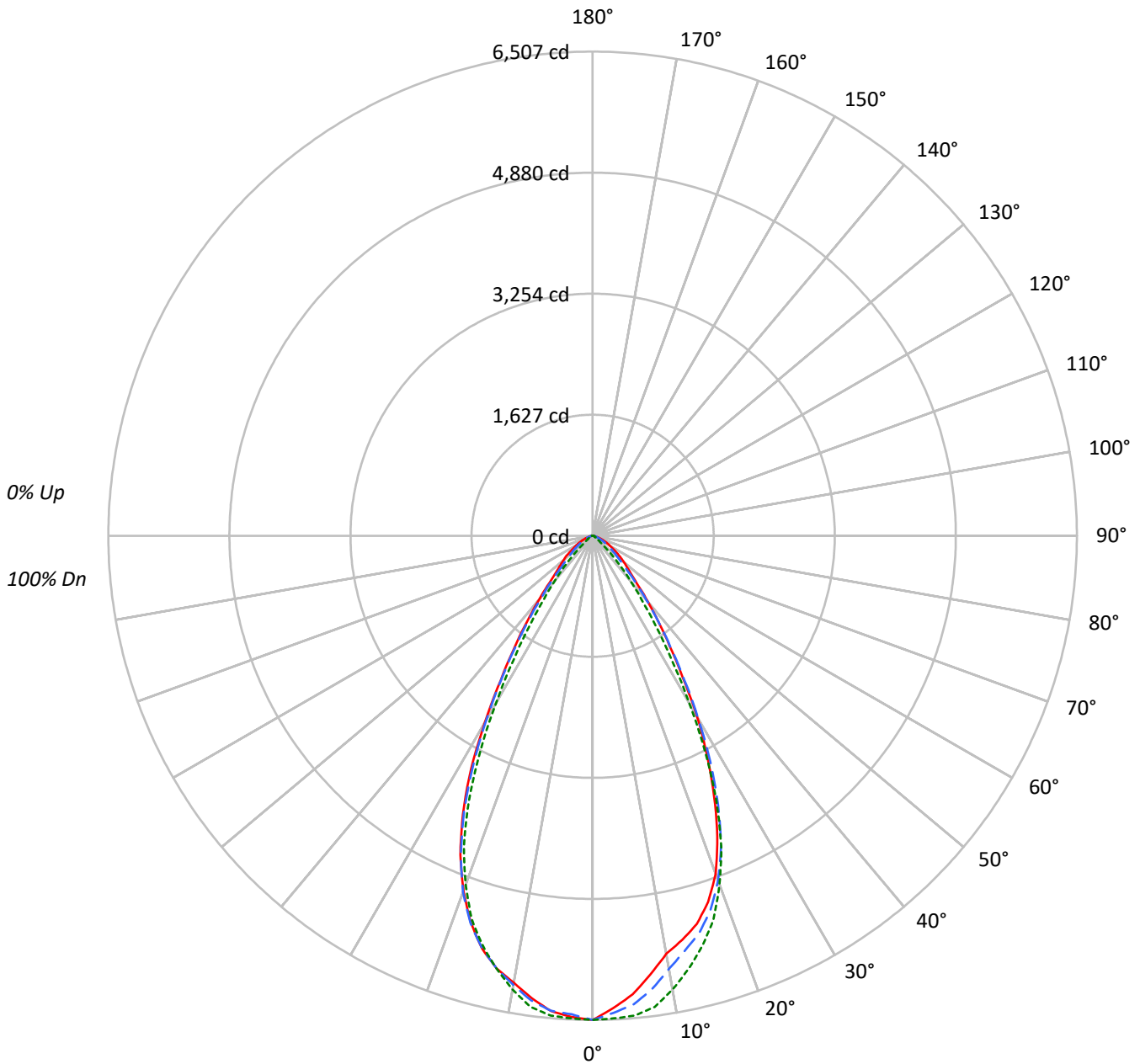
Lumens per Lamp: N/A
Luminaire Lumens: 5924.1 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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				
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°	799457	799457	799457
5°	762850	798182	790746
10°	711492	772307	761017
15°	687053	725400	730513
20°	632000	651702	663534
25°	523821	533350	559241
30°	398482	368535	409887
35°	269808	220810	272822
40°	183740	126519	178095
45°	127474	63728	120489
50°	103724	25936	96996
55°	83962	16150	76422
60°	66685	12359	60493
65°	52587	10233	46744
70°	39727	9016	36100
75°	28623	7168	26249
80°	21366	7146	17758
85°	14237	7048	14237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.3	10.1
10°-20°	1572.0	26.5
20°-30°	1803.6	30.4
30°-40°	1095.7	18.5
40°-50°	469.6	7.9
50°-60°	225.3	3.8
60°-70°	109.5	1.8
70°-80°	40.7	0.7
80°-90°	9.4	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°	3973.9	67.1
0°-40°	5069.6	85.6
0°-60°	5764.5	97.3
0°-90°	5924.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5924.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6507	6507	6507	6507	6507	
5°	6186	6322	6472	6407	6412	575
15°	5402	5528	5703	5739	5744	1504
25°	3864	3990	3935	4085	4126	1753
35°	1799	1824	1472	1779	1819	1153
45°	734	653	367	588	694	596
55°	392	292	75	261	357	354
65°	181	121	35	111	161	184
75°	60	40	15	35	55	66
85°	10	10	5	5	10	14
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°	6507.4	6507.4	6507.4	6507.4	6507.4	6507.4	6507.4	6507.4	6507.4
2.5°	6351.7	6422.0	6417.0	6477.3	6492.4	6477.3	6437.1	6477.3	6472.3
5°	6185.8	6266.2	6321.5	6422.0	6472.3	6462.2	6406.9	6417.0	6412.0
7.5°	5944.6	6045.1	6140.6	6291.4	6386.8	6381.8	6301.4	6286.3	6266.2
10°	5703.4	5798.9	5909.4	6065.2	6190.9	6211.0	6130.5	6110.4	6100.4
12.5°	5562.7	5638.1	5713.5	5849.1	5959.7	5999.9	5954.7	5959.7	5954.7
15°	5401.9	5477.3	5527.5	5628.0	5703.4	5758.7	5738.6	5768.7	5743.6
17.5°	5160.7	5251.2	5271.3	5346.6	5401.9	5437.1	5457.2	5487.3	5447.1
20°	4834.1	4904.4	4929.6	4959.7	4984.8	5030.1	5090.4	5120.5	5075.3
22.5°	4376.8	4512.5	4507.5	4492.4	4517.5	4532.6	4628.1	4678.3	4643.1
25°	3864.3	4005.0	3989.9	3929.6	3934.6	3964.8	4085.4	4150.7	4125.6
27.5°	3326.6	3457.2	3422.1	3306.5	3276.3	3321.6	3477.3	3552.7	3537.6
30°	2809.0	2894.4	2839.1	2633.1	2597.9	2653.2	2854.2	2929.6	2889.4
32.5°	2251.2	2316.5	2291.4	2040.2	1979.9	2035.1	2271.3	2341.7	2296.4
35°	1799.0	1859.3	1824.1	1527.6	1472.3	1532.6	1778.9	1859.3	1819.1
37.5°	1442.2	1487.4	1442.2	1125.6	1075.4	1135.7	1371.8	1477.4	1427.1
40°	1145.7	1180.9	1120.6	829.1	788.9	819.1	1040.2	1145.7	1110.5
42.5°	904.5	929.6	864.3	608.0	562.8	603.0	783.9	879.4	859.3
45°	733.7	733.7	653.3	422.1	366.8	407.0	587.9	688.4	693.5
47.5°	628.1	613.1	512.6	281.4	211.1	266.3	467.3	572.9	587.9
50°	542.7	522.6	422.1	206.0	135.7	191.0	386.9	492.5	507.5
52.5°	467.3	452.3	351.8	160.8	95.5	145.7	326.6	427.1	442.2
55°	392.0	381.9	291.5	125.6	75.4	110.6	261.3	346.7	356.8
57.5°	321.6	306.5	236.2	105.5	60.3	90.5	216.1	286.4	296.5
60°	271.4	256.3	191.0	85.4	50.3	70.4	175.9	236.2	246.2
62.5°	226.1	211.1	155.8	70.4	40.2	60.3	140.7	191.0	201.0
65°	180.9	170.9	120.6	55.3	35.2	45.2	110.6	150.8	160.8
67.5°	145.7	135.7	95.5	45.2	30.2	35.2	85.4	120.6	130.7
70°	110.6	100.5	70.4	35.2	25.1	30.2	65.3	90.5	100.5
72.5°	80.4	75.4	55.3	30.2	20.1	25.1	45.2	65.3	75.4
75°	60.3	55.3	40.2	20.1	15.1	20.1	35.2	50.3	55.3
77.5°	40.2	40.2	30.2	15.1	15.1	15.1	25.1	35.2	35.2
80°	30.2	25.1	20.1	10.1	10.1	10.1	15.1	25.1	25.1
82.5°	20.1	15.1	15.1	10.1	10.1	10.1	10.1	15.1	15.1
85°	10.1	10.1	10.1	5.0	5.0	5.0	5.0	10.1	10.1
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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)