

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: P859453

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859453
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 4LBMDSWMW
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

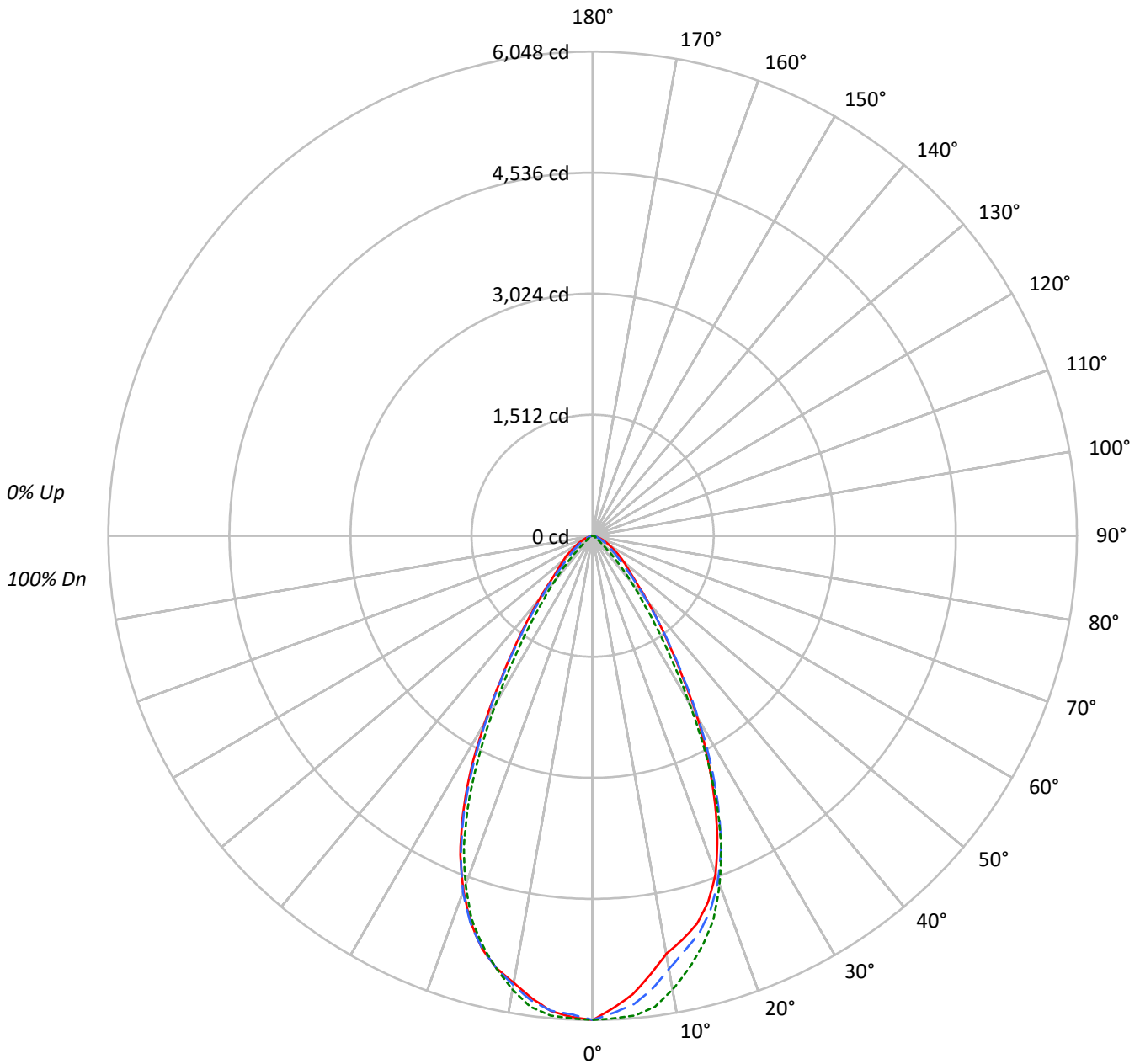
Lumens per Lamp: N/A
Luminaire Lumens: 5506.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859453

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDSWMW

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°	743055	743055	743055
5°	709032	741860	734942
10°	661293	717804	707325
15°	638582	674220	678964
20°	587406	605722	616717
25°	486855	495720	519781
30°	370365	342533	380962
35°	250761	205228	253565
40°	170782	117602	165538
45°	118474	59228	111976
50°	96404	24101	90154
55°	78029	15015	71025
60°	61967	11475	56242
65°	48866	9506	43459
70°	36926	8405	33549
75°	26581	6645	24398
80°	19810	6580	16555
85°	13109	6625	13109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	10.1
10°-20°	1461.1	26.5
20°-30°	1676.4	30.4
30°-40°	1018.4	18.5
40°-50°	436.4	7.9
50°-60°	209.4	3.8
60°-70°	101.8	1.8
70°-80°	37.8	0.7
80°-90°	8.7	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°	3693.5	67.1
0°-40°	4711.9	85.6
0°-60°	5357.7	97.3
0°-90°	5506.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5506.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6048	6048	6048	6048	6048	
5°	5749	5876	6016	5955	5960	534
15°	5021	5138	5301	5334	5338	1398
25°	3592	3708	3657	3797	3834	1629
35°	1672	1695	1368	1653	1691	1072
45°	682	607	341	546	644	554
55°	364	271	70	243	332	329
65°	168	112	33	103	150	171
75°	56	37	14	33	51	61
85°	9	9	5	5	9	13
90°	0	0	0	0	0	



TEST NUMBER: P859453

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6048.3	6048.3	6048.3	6048.3	6048.3	6048.3	6048.3	6048.3	6048.3
2.5°	5903.5	5968.9	5964.2	6020.2	6034.2	6020.2	5982.9	6020.2	6015.6
5°	5749.4	5824.1	5875.5	5968.9	6015.6	6006.2	5954.9	5964.2	5959.5
7.5°	5525.2	5618.6	5707.3	5847.4	5936.2	5931.5	5856.8	5842.8	5824.1
10°	5301.0	5389.7	5492.5	5637.3	5754.0	5772.7	5698.0	5679.3	5670.0
12.5°	5170.2	5240.3	5310.3	5436.4	5539.2	5576.5	5534.5	5539.2	5534.5
15°	5020.8	5090.8	5137.5	5230.9	5301.0	5352.4	5333.7	5361.7	5338.3
17.5°	4796.6	4880.6	4899.3	4969.4	5020.8	5053.5	5072.1	5100.2	5062.8
20°	4493.0	4558.4	4581.7	4609.8	4633.1	4675.1	4731.2	4759.2	4717.2
22.5°	4068.0	4194.1	4189.4	4175.4	4198.8	4212.8	4301.5	4348.2	4315.5
25°	3591.6	3722.4	3708.4	3652.3	3657.0	3685.0	3797.1	3857.8	3834.5
27.5°	3091.9	3213.3	3180.6	3073.2	3045.1	3087.2	3232.0	3302.0	3288.0
30°	2610.8	2690.2	2638.8	2447.3	2414.6	2466.0	2652.8	2722.9	2685.5
32.5°	2092.4	2153.1	2129.7	1896.2	1840.2	1891.5	2111.1	2176.4	2134.4
35°	1672.0	1728.1	1695.4	1419.8	1368.4	1424.5	1653.3	1728.1	1690.7
37.5°	1340.4	1382.5	1340.4	1046.2	999.5	1055.5	1275.0	1373.1	1326.4
40°	1064.9	1097.6	1041.5	770.6	733.3	761.3	966.8	1064.9	1032.2
42.5°	840.7	864.0	803.3	565.1	523.1	560.5	728.6	817.3	798.7
45°	681.9	681.9	607.2	392.3	340.9	378.3	546.4	639.9	644.5
47.5°	583.8	569.8	476.4	261.5	196.2	247.5	434.4	532.4	546.4
50°	504.4	485.7	392.3	191.5	126.1	177.5	359.6	457.7	471.7
52.5°	434.4	420.3	326.9	149.5	88.7	135.4	303.6	397.0	411.0
55°	364.3	355.0	270.9	116.8	70.1	102.8	242.9	322.3	331.6
57.5°	298.9	284.9	219.5	98.1	56.0	84.1	200.8	266.2	275.6
60°	252.2	238.2	177.5	79.4	46.7	65.4	163.5	219.5	228.9
62.5°	210.2	196.2	144.8	65.4	37.4	56.0	130.8	177.5	186.8
65°	168.1	158.8	112.1	51.4	32.7	42.0	102.8	140.1	149.5
67.5°	135.4	126.1	88.7	42.0	28.0	32.7	79.4	112.1	121.4
70°	102.8	93.4	65.4	32.7	23.4	28.0	60.7	84.1	93.4
72.5°	74.7	70.1	51.4	28.0	18.7	23.4	42.0	60.7	70.1
75°	56.0	51.4	37.4	18.7	14.0	18.7	32.7	46.7	51.4
77.5°	37.4	37.4	28.0	14.0	14.0	14.0	23.4	32.7	32.7
80°	28.0	23.4	18.7	9.3	9.3	9.3	14.0	23.4	23.4
82.5°	18.7	14.0	14.0	9.3	9.3	9.3	9.3	14.0	14.0
85°	9.3	9.3	9.3	4.7	4.7	4.7	4.7	9.3	9.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)