

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: P859513

Luminaire Tested: **LD4C70D010 EU4709050 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859513
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 EU4709050 4LBMDSWGPH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

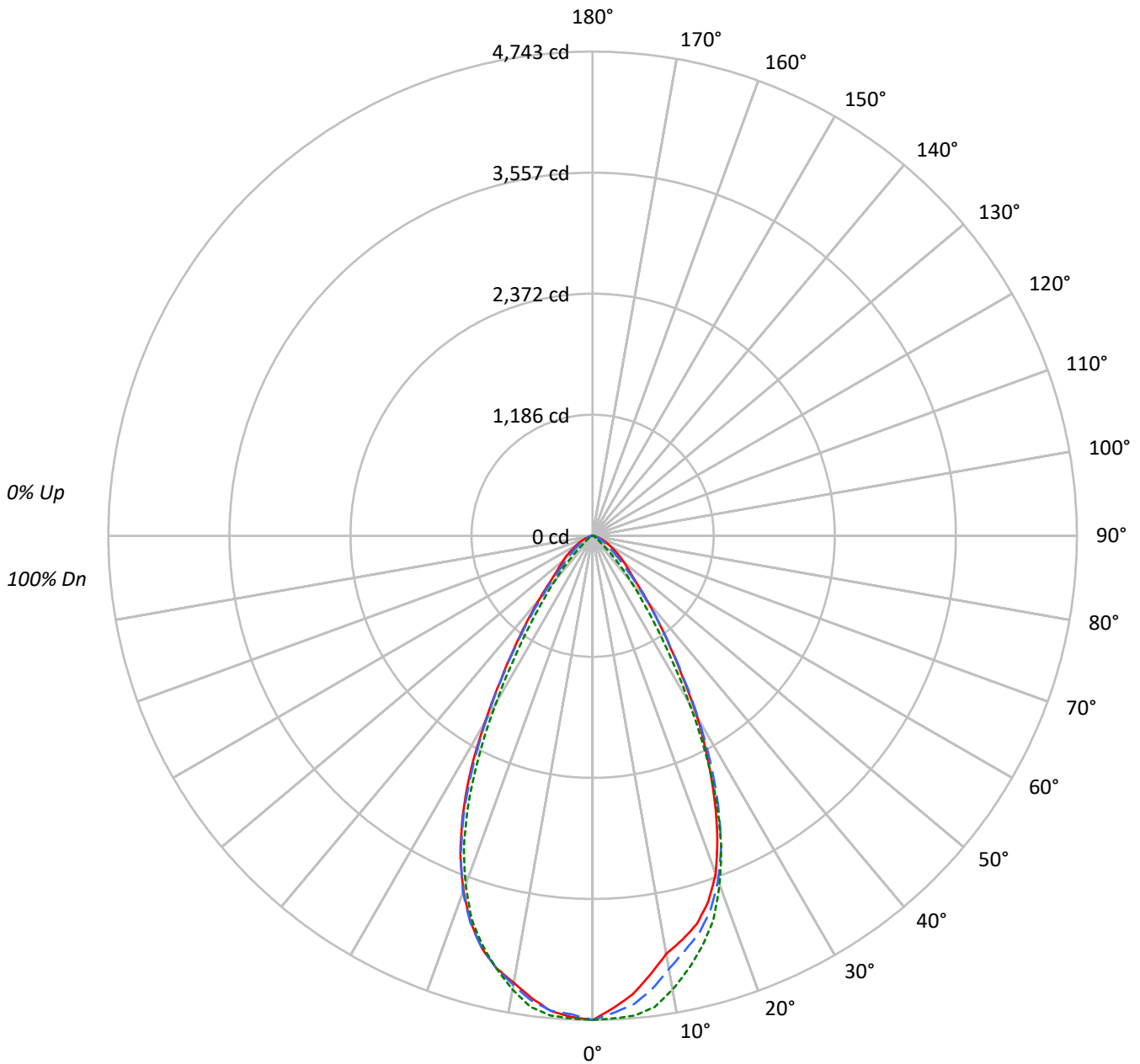
Lumens per Lamp: N/A
Luminaire Lumens: 4318.0 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	582731	582731	582731
5°	556038	581787	576374
10°	518605	562928	554708
15°	500800	528743	532470
20°	460668	475023	483652
25°	381814	388755	407624
30°	290456	268624	298769
35°	196664	160955	198854
40°	133928	92231	129823
45°	92917	46458	87826
50°	75609	18902	70698
55°	61194	11759	55710
60°	48601	8993	44104
65°	38343	7442	34070
70°	28951	6573	26329
75°	20885	5221	19129
80°	15565	5165	12947
85°	10290	5215	10290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.1	10.1
10°-20°	1145.8	26.5
20°-30°	1314.7	30.4
30°-40°	798.6	18.5
40°-50°	342.3	7.9
50°-60°	164.2	3.8
60°-70°	79.8	1.8
70°-80°	29.6	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°	2896.6	67.1
0°-40°	3695.2	85.6
0°-60°	4201.7	97.3
0°-90°	4318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4318.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4743	4743	4743	4743	4743	
5°	4509	4608	4718	4670	4674	419
15°	3938	4029	4157	4183	4186	1096
25°	2817	2908	2868	2978	3007	1278
35°	1311	1330	1073	1297	1326	840
45°	535	476	267	428	506	434
55°	286	212	55	190	260	258
65°	132	88	26	81	117	134
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°	4743.3	4743.3	4743.3	4743.3	4743.3	4743.3	4743.3	4743.3	4743.3
2.5°	4629.7	4681.0	4677.3	4721.3	4732.3	4721.3	4692.0	4721.3	4717.6
5°	4508.8	4567.4	4607.7	4681.0	4717.6	4710.3	4670.0	4677.3	4673.7
7.5°	4333.0	4406.3	4475.9	4585.8	4655.4	4651.7	4593.1	4582.1	4567.4
10°	4157.2	4226.8	4307.4	4420.9	4512.5	4527.2	4468.6	4453.9	4446.6
12.5°	4054.7	4109.6	4164.5	4263.4	4344.0	4373.3	4340.4	4344.0	4340.4
15°	3937.5	3992.4	4029.0	4102.3	4157.2	4197.5	4182.9	4204.8	4186.5
17.5°	3761.6	3827.6	3842.2	3897.2	3937.5	3963.1	3977.7	3999.7	3970.4
20°	3523.6	3574.8	3593.2	3615.1	3633.4	3666.4	3710.4	3732.3	3699.4
22.5°	3190.3	3289.1	3285.5	3274.5	3292.8	3303.8	3373.4	3410.0	3384.4
25°	2816.7	2919.2	2908.2	2864.3	2867.9	2889.9	2977.8	3025.4	3007.1
27.5°	2424.7	2520.0	2494.3	2410.1	2388.1	2421.1	2534.6	2589.6	2578.6
30°	2047.5	2109.7	2069.5	1919.3	1893.6	1933.9	2080.4	2135.4	2106.1
32.5°	1640.9	1688.5	1670.2	1487.1	1443.1	1483.4	1655.6	1706.8	1673.9
35°	1311.3	1355.2	1329.6	1113.5	1073.2	1117.1	1296.6	1355.2	1325.9
37.5°	1051.2	1084.2	1051.2	820.5	783.8	827.8	999.9	1076.8	1040.2
40°	835.1	860.7	816.8	604.4	575.1	597.0	758.2	835.1	809.5
42.5°	659.3	677.6	630.0	443.2	410.2	439.5	571.4	641.0	626.3
45°	534.8	534.8	476.2	307.7	267.4	296.7	428.5	501.8	505.5
47.5°	457.8	446.9	373.6	205.1	153.8	194.1	340.6	417.6	428.5
50°	395.6	380.9	307.7	150.2	98.9	139.2	282.0	358.9	369.9
52.5°	340.6	329.6	256.4	117.2	69.6	106.2	238.1	311.3	322.3
55°	285.7	278.4	212.4	91.6	54.9	80.6	190.5	252.7	260.1
57.5°	234.4	223.4	172.1	76.9	44.0	65.9	157.5	208.8	216.1
60°	197.8	186.8	139.2	62.3	36.6	51.3	128.2	172.1	179.5
62.5°	164.8	153.8	113.5	51.3	29.3	44.0	102.6	139.2	146.5
65°	131.9	124.5	87.9	40.3	25.6	33.0	80.6	109.9	117.2
67.5°	106.2	98.9	69.6	33.0	22.0	25.6	62.3	87.9	95.2
70°	80.6	73.3	51.3	25.6	18.3	22.0	47.6	65.9	73.3
72.5°	58.6	54.9	40.3	22.0	14.7	18.3	33.0	47.6	54.9
75°	44.0	40.3	29.3	14.7	11.0	14.7	25.6	36.6	40.3
77.5°	29.3	29.3	22.0	11.0	11.0	11.0	18.3	25.6	25.6
80°	22.0	18.3	14.7	7.3	7.3	7.3	11.0	18.3	18.3
82.5°	14.7	11.0	11.0	7.3	7.3	7.3	7.3	11.0	11.0
85°	7.3	7.3	7.3	3.7	3.7	3.7	3.7	7.3	7.3
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)