

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: P859172

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859172
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: LD4C60D010 EU4609027 4LBMDSWWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

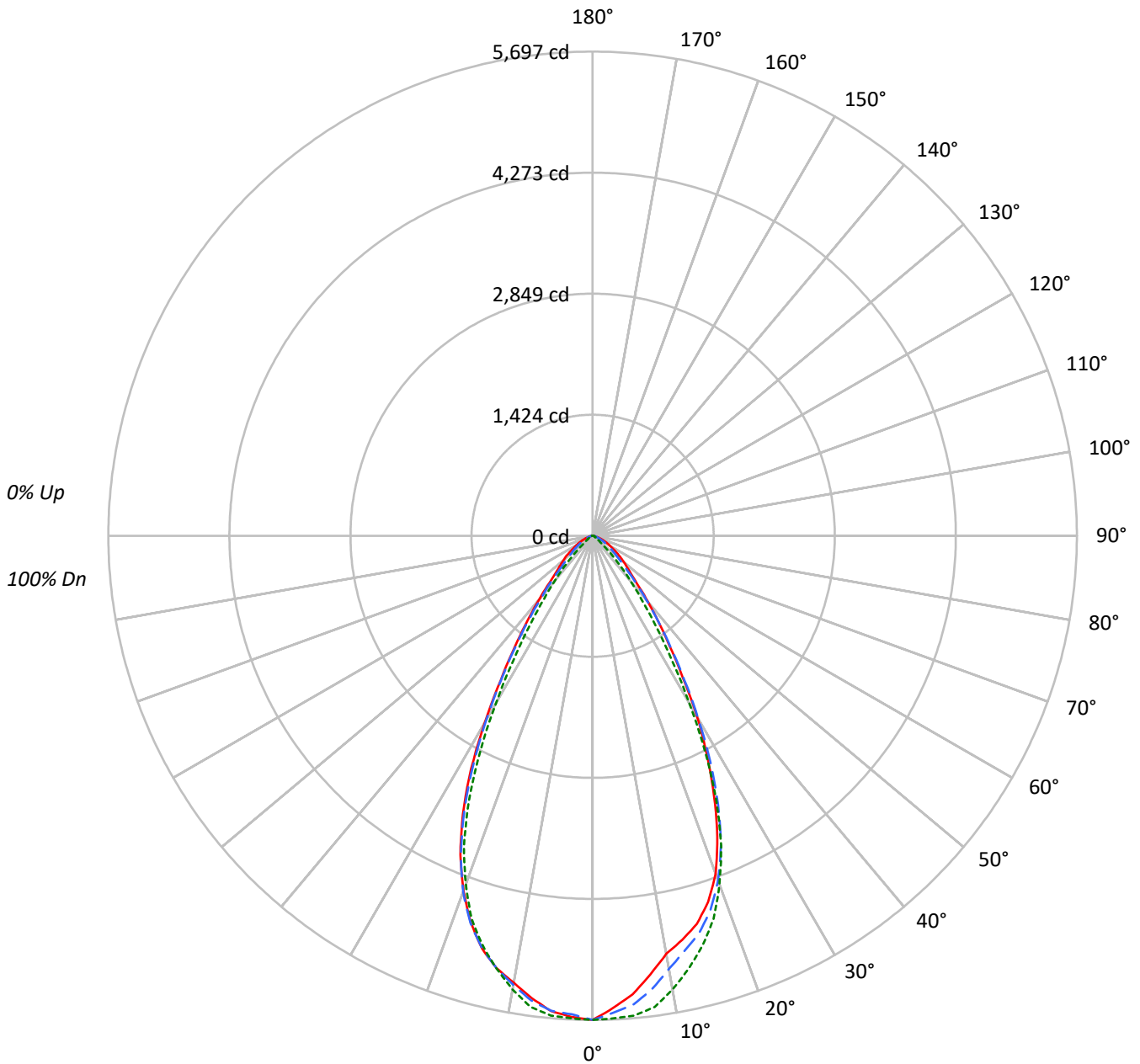
Lumens per Lamp: N/A
Luminaire Lumens: 5186.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V): NR
Input Current (Ain): 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									
RC	80									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°	699859	699859	699859
5°	667817	698747	692235
10°	622858	676088	666208
15°	601469	635033	639510
20°	553270	570514	580869
25°	458565	466902	489566
30°	348845	322630	358818
35°	236198	193305	238822
40°	160855	110754	155915
45°	111594	55788	105478
50°	90804	22706	84917
55°	73488	14136	66891
60°	58355	10811	52974
65°	46046	8953	40930
70°	34771	7902	31610
75°	25063	6266	22974
80°	18678	6226	15565
85°	12404	6202	12404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	10.1
10°-20°	1376.2	26.5
20°-30°	1578.9	30.4
30°-40°	959.2	18.5
40°-50°	411.1	7.9
50°-60°	197.2	3.8
60°-70°	95.9	1.8
70°-80°	35.6	0.7
80°-90°	8.2	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°	3478.9	67.1
0°-40°	4438.1	85.6
0°-60°	5046.3	97.3
0°-90°	5186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5186.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5697	5697	5697	5697	5697	
5°	5415	5534	5666	5609	5613	503
15°	4729	4839	4993	5024	5028	1317
25°	3383	3493	3444	3576	3612	1535
35°	1575	1597	1289	1557	1592	1009
45°	642	572	321	515	607	522
55°	343	255	66	229	312	310
65°	158	106	31	97	141	161
75°	53	35	13	31	48	58
85°	9	9	4	4	9	12
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°	5696.7	5696.7	5696.7	5696.7	5696.7	5696.7	5696.7	5696.7	5696.7
2.5°	5560.4	5622.0	5617.6	5670.4	5683.5	5670.4	5635.2	5670.4	5666.0
5°	5415.2	5485.6	5534.0	5622.0	5666.0	5657.2	5608.8	5617.6	5613.2
7.5°	5204.1	5292.0	5375.6	5507.6	5591.2	5586.8	5516.4	5503.2	5485.6
10°	4992.9	5076.5	5173.3	5309.6	5419.6	5437.2	5366.8	5349.2	5340.4
12.5°	4869.7	4935.7	5001.7	5120.5	5217.3	5252.4	5212.9	5217.3	5212.9
15°	4729.0	4794.9	4838.9	4926.9	4992.9	5041.3	5023.7	5050.1	5028.1
17.5°	4517.8	4597.0	4614.6	4680.6	4729.0	4759.8	4777.3	4803.7	4768.6
20°	4231.9	4293.5	4315.4	4341.8	4363.8	4403.4	4456.2	4482.6	4443.0
22.5°	3831.6	3950.3	3945.9	3932.7	3954.7	3967.9	4051.5	4095.5	4064.7
25°	3382.9	3506.0	3492.8	3440.0	3444.4	3470.8	3576.4	3633.6	3611.6
27.5°	2912.2	3026.5	2995.7	2894.6	2868.2	2907.8	3044.1	3110.1	3096.9
30°	2459.1	2533.8	2485.5	2305.1	2274.3	2322.7	2498.6	2564.6	2529.4
32.5°	1970.8	2028.0	2006.0	1786.0	1733.2	1781.6	1988.4	2049.9	2010.4
35°	1574.9	1627.6	1596.8	1337.3	1288.9	1341.7	1557.3	1627.6	1592.4
37.5°	1262.5	1302.1	1262.5	985.4	941.4	994.2	1200.9	1293.3	1249.3
40°	1003.0	1033.8	981.0	725.8	690.6	717.0	910.6	1003.0	972.2
42.5°	791.8	813.8	756.6	532.3	492.7	527.9	686.2	769.8	752.2
45°	642.3	642.3	571.9	369.5	321.1	356.3	514.7	602.7	607.1
47.5°	549.9	536.7	448.7	246.3	184.8	233.1	409.1	501.5	514.7
50°	475.1	457.5	369.5	180.4	118.8	167.2	338.7	431.1	444.3
52.5°	409.1	395.9	307.9	140.8	83.6	127.6	285.9	373.9	387.1
55°	343.1	334.3	255.1	110.0	66.0	96.8	228.7	303.5	312.3
57.5°	281.5	268.3	206.8	92.4	52.8	79.2	189.2	250.7	259.5
60°	237.5	224.4	167.2	74.8	44.0	61.6	154.0	206.8	215.6
62.5°	198.0	184.8	136.4	61.6	35.2	52.8	123.2	167.2	176.0
65°	158.4	149.6	105.6	48.4	30.8	39.6	96.8	132.0	140.8
67.5°	127.6	118.8	83.6	39.6	26.4	30.8	74.8	105.6	114.4
70°	96.8	88.0	61.6	30.8	22.0	26.4	57.2	79.2	88.0
72.5°	70.4	66.0	48.4	26.4	17.6	22.0	39.6	57.2	66.0
75°	52.8	48.4	35.2	17.6	13.2	17.6	30.8	44.0	48.4
77.5°	35.2	35.2	26.4	13.2	13.2	13.2	22.0	30.8	30.8
80°	26.4	22.0	17.6	8.8	8.8	8.8	13.2	22.0	22.0
82.5°	17.6	13.2	13.2	8.8	8.8	8.8	8.8	13.2	13.2
85°	8.8	8.8	8.8	4.4	4.4	4.4	4.4	8.8	8.8
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)