

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: P859493

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859493
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 EU4709040 4LBMDSWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

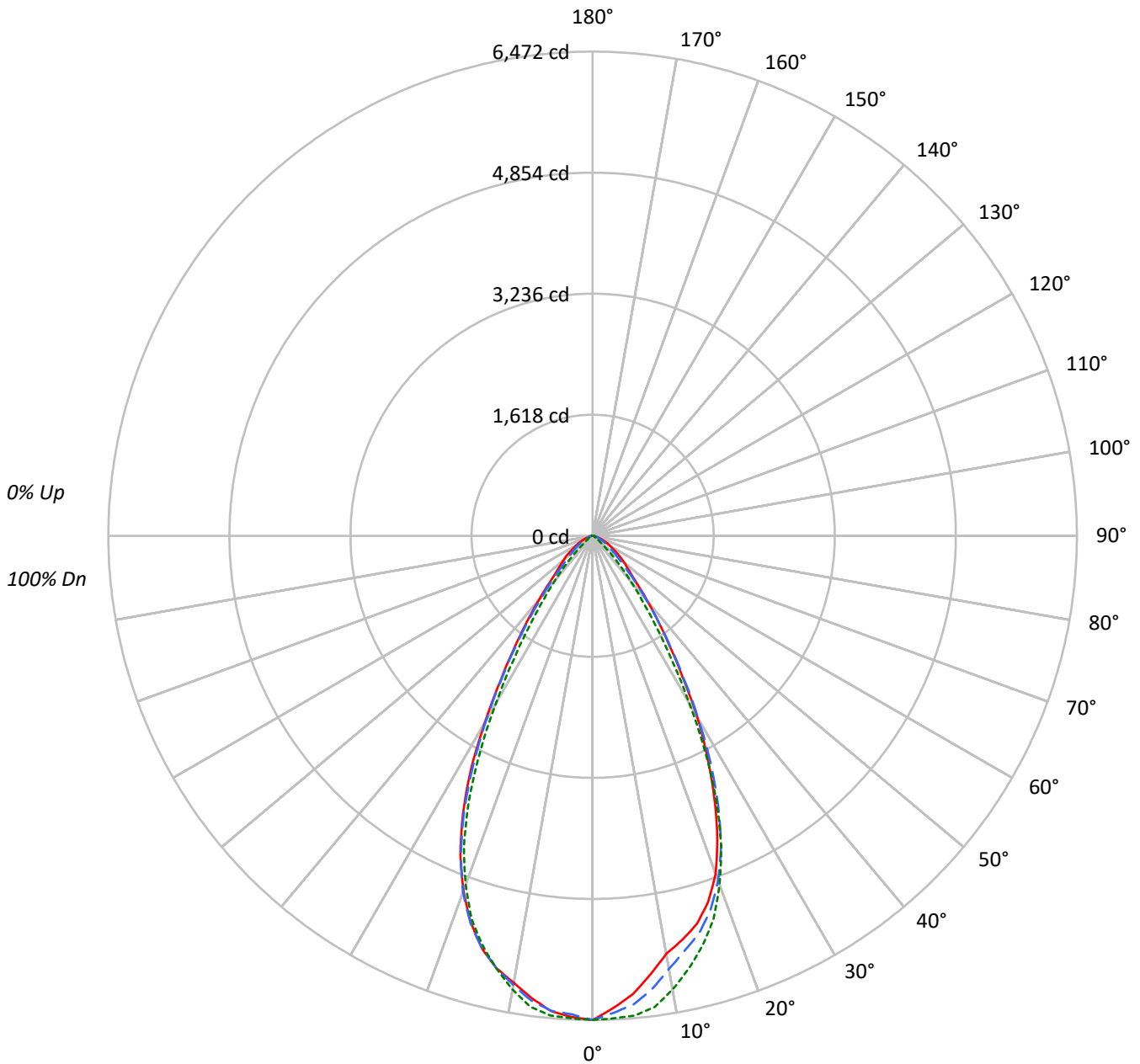
Lumens per Lamp: N/A
Luminaire Lumens: 5892.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	795145	795145	795145
5°	758731	793866	786466
10°	707649	768128	756900
15°	683339	721483	726570
20°	628588	648186	659952
25°	520988	530476	556218
30°	396326	366549	407674
35°	268338	219625	271337
40°	182746	125845	177133
45°	126779	63381	119829
50°	103170	25783	96480
55°	83491	16064	76015
60°	66316	12285	60174
65°	52296	10174	46482
70°	39512	8980	35920
75°	28480	7120	26107
80°	21225	7075	17687
85°	14096	7048	14096



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.1	10.1
10°-20°	1563.5	26.5
20°-30°	1793.9	30.4
30°-40°	1089.8	18.5
40°-50°	467.0	7.9
50°-60°	224.1	3.8
60°-70°	108.9	1.8
70°-80°	40.4	0.7
80°-90°	9.3	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°	3952.5	67.1
0°-40°	5042.2	85.6
0°-60°	5733.3	97.3
0°-90°	5892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5892.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6472	6472	6472	6472	6472	
5°	6152	6287	6437	6372	6377	572
15°	5373	5498	5673	5708	5713	1496
25°	3843	3968	3913	4063	4103	1743
35°	1789	1814	1464	1769	1809	1147
45°	730	650	365	585	690	593
55°	390	290	75	260	355	352
65°	180	120	35	110	160	183
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°	6472.3	6472.3	6472.3	6472.3	6472.3	6472.3	6472.3	6472.3	6472.3
2.5°	6317.3	6387.3	6382.3	6442.3	6457.3	6442.3	6402.3	6442.3	6437.3
5°	6152.4	6232.4	6287.4	6387.3	6437.3	6427.3	6372.3	6382.3	6377.3
7.5°	5912.5	6012.5	6107.4	6257.4	6352.3	6347.3	6267.4	6252.4	6232.4
10°	5672.6	5767.6	5877.5	6032.5	6157.4	6177.4	6097.4	6077.4	6067.4
12.5°	5532.7	5607.6	5682.6	5817.6	5927.5	5967.5	5922.5	5927.5	5922.5
15°	5372.7	5447.7	5497.7	5597.6	5672.6	5727.6	5707.6	5737.6	5712.6
17.5°	5132.8	5222.8	5242.8	5317.8	5372.7	5407.7	5427.7	5457.7	5417.7
20°	4808.0	4877.9	4902.9	4932.9	4957.9	5002.9	5062.9	5092.9	5047.9
22.5°	4353.2	4488.1	4483.1	4468.1	4493.1	4508.1	4603.1	4653.0	4618.1
25°	3843.4	3983.3	3968.3	3908.4	3913.4	3943.3	4063.3	4128.3	4103.3
27.5°	3308.6	3438.6	3403.6	3288.6	3258.6	3303.6	3458.5	3533.5	3518.5
30°	2793.8	2878.8	2823.8	2618.9	2583.9	2638.9	2838.8	2913.8	2873.8
32.5°	2239.1	2304.0	2279.0	2029.1	1969.2	2024.1	2259.0	2329.0	2284.0
35°	1789.2	1849.2	1814.2	1519.4	1464.4	1524.4	1769.3	1849.2	1809.2
37.5°	1434.4	1479.4	1434.4	1119.5	1069.5	1129.5	1364.4	1469.4	1419.4
40°	1139.5	1174.5	1114.5	824.7	784.7	814.7	1034.6	1139.5	1104.5
42.5°	899.6	924.6	859.6	604.7	559.8	599.7	779.7	874.6	854.6
45°	729.7	729.7	649.7	419.8	364.8	404.8	584.8	684.7	689.7
47.5°	624.7	609.7	509.8	279.9	209.9	264.9	464.8	569.8	584.8
50°	539.8	519.8	419.8	204.9	134.9	189.9	384.8	489.8	504.8
52.5°	464.8	449.8	349.9	159.9	95.0	144.9	324.9	424.8	439.8
55°	389.8	379.8	289.9	124.9	75.0	110.0	259.9	344.9	354.9
57.5°	319.9	304.9	234.9	105.0	60.0	90.0	214.9	284.9	294.9
60°	269.9	254.9	189.9	85.0	50.0	70.0	174.9	234.9	244.9
62.5°	224.9	209.9	154.9	70.0	40.0	60.0	139.9	189.9	199.9
65°	179.9	169.9	119.9	55.0	35.0	45.0	110.0	149.9	159.9
67.5°	144.9	134.9	95.0	45.0	30.0	35.0	85.0	119.9	129.9
70°	110.0	100.0	70.0	35.0	25.0	30.0	65.0	90.0	100.0
72.5°	80.0	75.0	55.0	30.0	20.0	25.0	45.0	65.0	75.0
75°	60.0	55.0	40.0	20.0	15.0	20.0	35.0	50.0	55.0
77.5°	40.0	40.0	30.0	15.0	15.0	15.0	25.0	35.0	35.0
80°	30.0	25.0	20.0	10.0	10.0	10.0	15.0	25.0	25.0
82.5°	20.0	15.0	15.0	10.0	10.0	10.0	10.0	15.0	15.0
85°	10.0	10.0	10.0	5.0	5.0	5.0	5.0	10.0	10.0
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)