

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: P859451

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859451
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 4LBMDSWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

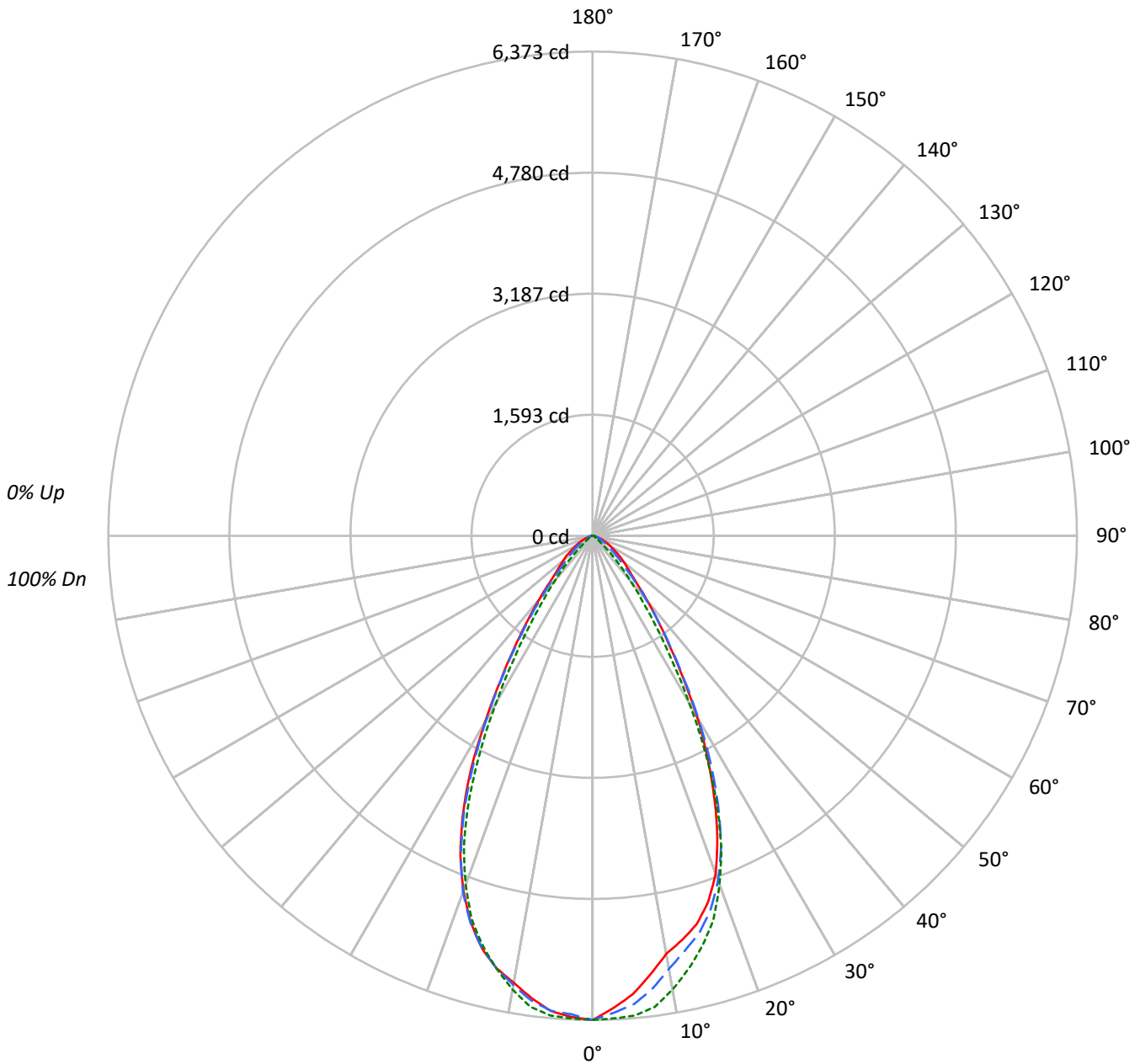
Lumens per Lamp: N/A
Luminaire Lumens: 5802.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859451

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDSWH

Luminous Intensity Polar Plot





TEST NUMBER: P859451

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDSWH

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°	782994	782994	782994
5°	747139	781743	774455
10°	696846	756401	745348
15°	672910	710468	715467
20°	618979	638289	649872
25°	513031	522370	547719
30°	390268	360946	401447
35°	264243	216266	267198
40°	179955	123921	174439
45°	124833	62425	118005
50°	101584	25401	95009
55°	82227	15807	74837
60°	65309	12089	59265
65°	51511	10029	45785
70°	38901	8836	35345
75°	28053	7025	25680
80°	20871	6933	17404
85°	13814	6907	13814



TEST NUMBER: P859451

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.0	10.1
10°-20°	1539.6	26.5
20°-30°	1766.5	30.4
30°-40°	1073.1	18.5
40°-50°	459.9	7.9
50°-60°	220.6	3.8
60°-70°	107.3	1.8
70°-80°	39.8	0.7
80°-90°	9.1	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°	3892.1	67.1
0°-40°	4965.2	85.6
0°-60°	5645.7	97.3
0°-90°	5802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5802.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6373	6373	6373	6373	6373	
5°	6058	6191	6339	6275	6280	563
15°	5291	5414	5586	5620	5625	1473
25°	3785	3908	3854	4001	4041	1717
35°	1762	1786	1442	1742	1782	1129
45°	718	640	359	576	679	584
55°	384	286	74	256	349	346
65°	177	118	34	108	158	180
75°	59	39	15	34	54	65
85°	10	10	5	5	10	13
90°	0	0	0	0	0	



TEST NUMBER: P859451

CATALOG NUMBER: LD4C70D010 EU4709030 4LBMSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4	6373.4
2.5°	6220.8	6289.7	6284.8	6343.9	6358.6	6343.9	6304.5	6343.9	6339.0
5°	6058.4	6137.2	6191.3	6289.7	6339.0	6329.1	6275.0	6284.8	6279.9
7.5°	5822.2	5920.6	6014.1	6161.8	6255.3	6250.4	6171.6	6156.9	6137.2
10°	5586.0	5679.5	5787.7	5940.3	6063.4	6083.0	6004.3	5984.6	5974.8
12.5°	5448.2	5522.0	5595.8	5728.7	5837.0	5876.3	5832.0	5837.0	5832.0
15°	5290.7	5364.5	5413.7	5512.1	5586.0	5640.1	5620.4	5649.9	5625.3
17.5°	5054.4	5143.0	5162.7	5236.5	5290.7	5325.1	5344.8	5374.3	5335.0
20°	4734.5	4803.4	4828.0	4857.6	4882.2	4926.5	4985.5	5015.1	4970.8
22.5°	4286.7	4419.6	4414.6	4399.9	4424.5	4439.2	4532.8	4582.0	4547.5
25°	3784.7	3922.5	3907.7	3848.7	3853.6	3883.1	4001.2	4065.2	4040.6
27.5°	3258.1	3386.0	3351.6	3238.4	3208.9	3253.1	3405.7	3479.5	3464.8
30°	2751.1	2834.8	2780.7	2578.9	2544.4	2598.6	2795.4	2869.3	2829.9
32.5°	2204.9	2268.8	2244.2	1998.2	1939.1	1993.2	2224.5	2293.4	2249.2
35°	1761.9	1821.0	1786.5	1496.2	1442.0	1501.1	1742.2	1821.0	1781.6
37.5°	1412.5	1456.8	1412.5	1102.4	1053.2	1112.3	1343.6	1446.9	1397.7
40°	1122.1	1156.6	1097.5	812.1	772.7	802.2	1018.8	1122.1	1087.7
42.5°	885.9	910.5	846.5	595.5	551.2	590.6	767.8	861.3	841.6
45°	718.5	718.5	639.8	413.4	359.3	398.6	575.8	674.3	679.2
47.5°	615.2	600.4	502.0	275.6	206.7	260.8	457.7	561.1	575.8
50°	531.5	511.8	413.4	201.8	132.9	187.0	379.0	482.3	497.1
52.5°	457.7	442.9	344.5	157.5	93.5	142.7	319.9	418.3	433.1
55°	383.9	374.0	285.5	123.0	73.8	108.3	255.9	339.6	349.4
57.5°	315.0	300.2	231.3	103.4	59.1	88.6	211.6	280.5	290.4
60°	265.8	251.0	187.0	83.7	49.2	68.9	172.3	231.3	241.2
62.5°	221.5	206.7	152.6	68.9	39.4	59.1	137.8	187.0	196.9
65°	177.2	167.3	118.1	54.1	34.5	44.3	108.3	147.6	157.5
67.5°	142.7	132.9	93.5	44.3	29.5	34.5	83.7	118.1	128.0
70°	108.3	98.4	68.9	34.5	24.6	29.5	64.0	88.6	98.4
72.5°	78.7	73.8	54.1	29.5	19.7	24.6	44.3	64.0	73.8
75°	59.1	54.1	39.4	19.7	14.8	19.7	34.5	49.2	54.1
77.5°	39.4	39.4	29.5	14.8	14.8	14.8	24.6	34.5	34.5
80°	29.5	24.6	19.7	9.8	9.8	9.8	14.8	24.6	24.6
82.5°	19.7	14.8	14.8	9.8	9.8	9.8	9.8	14.8	14.8
85°	9.8	9.8	9.8	4.9	4.9	4.9	4.9	9.8	9.8
87.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)