

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: P859430

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859430
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 EU4709027 4LBMDSWH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

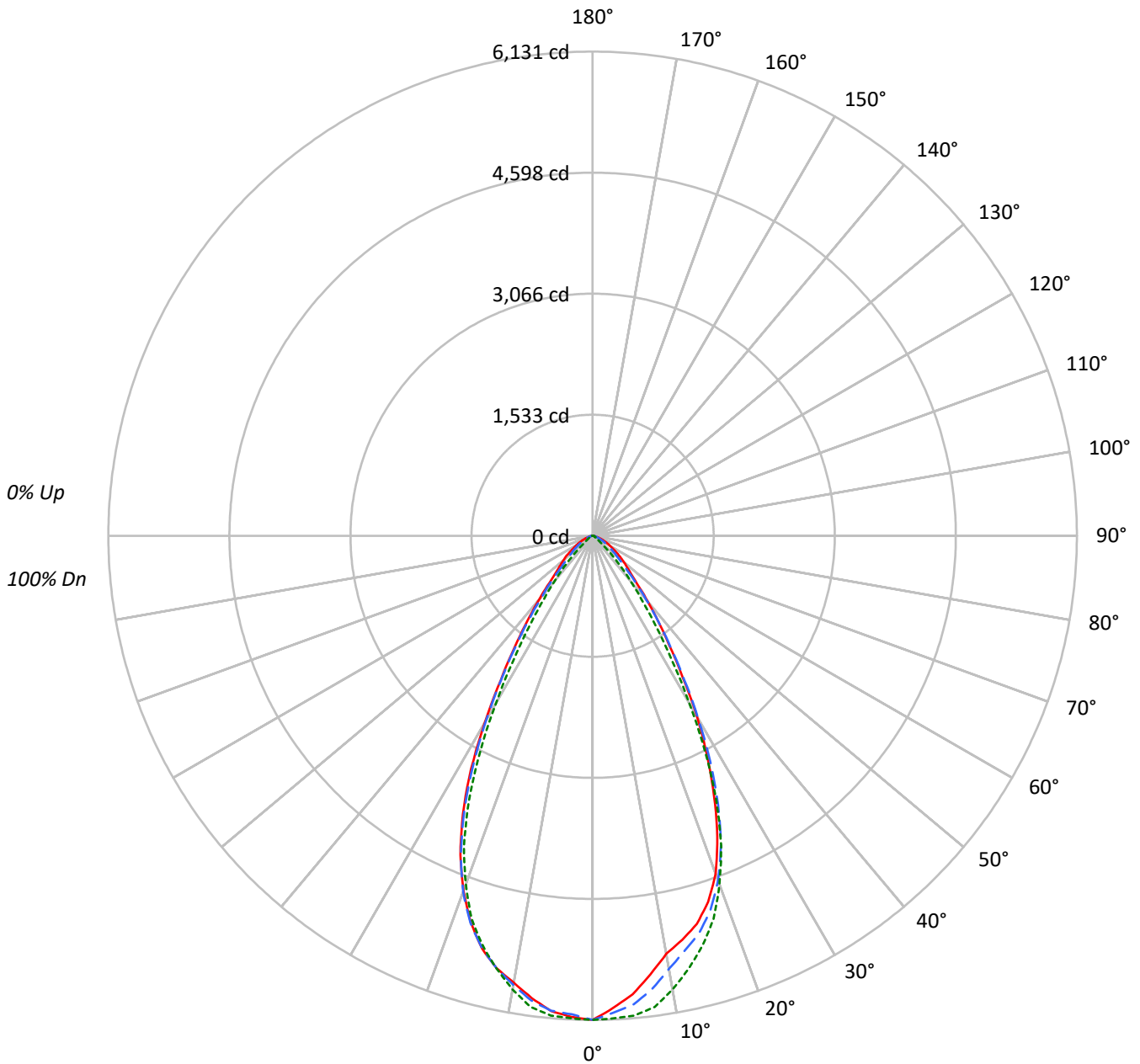
Lumens per Lamp: N/A
Luminaire Lumens: 5581.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859430

CATALOG NUMBER: LD4C70D010 EU4709027 4LBMDSWH

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°	753166	753166	753166
5°	718688	751961	744956
10°	670300	727584	716956
15°	647269	683403	688223
20°	595407	613972	625110
25°	493484	502471	526857
30°	375416	347200	386154
35°	254180	208032	257015
40°	173108	119206	167783
45°	120090	60045	113505
50°	97723	24426	91377
55°	79100	15207	71989
60°	62803	11622	57004
65°	49535	9622	44040
70°	37393	8513	34016
75°	26961	6740	24730
80°	20093	6721	16767
85°	13391	6625	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.7	10.1
10°-20°	1481.0	26.5
20°-30°	1699.2	30.4
30°-40°	1032.2	18.5
40°-50°	442.4	7.9
50°-60°	212.2	3.8
60°-70°	103.2	1.8
70°-80°	38.3	0.7
80°-90°	8.8	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°	3743.8	67.1
0°-40°	4776.1	85.6
0°-60°	5430.7	97.3
0°-90°	5581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6131	6131	6131	6131	6131	
5°	5828	5956	6098	6036	6041	541
15°	5089	5208	5373	5406	5411	1417
25°	3640	3759	3707	3849	3887	1651
35°	1695	1718	1387	1676	1714	1086
45°	691	615	346	554	653	562
55°	369	275	71	246	336	333
65°	170	114	33	104	152	173
75°	57	38	14	33	52	62
85°	10	10	5	5	10	13
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°	6130.6	6130.6	6130.6	6130.6	6130.6	6130.6	6130.6	6130.6	6130.6
2.5°	5983.9	6050.2	6045.4	6102.2	6116.4	6102.2	6064.4	6102.2	6097.5
5°	5827.7	5903.4	5955.5	6050.2	6097.5	6088.0	6036.0	6045.4	6040.7
7.5°	5600.4	5695.1	5785.1	5927.1	6017.0	6012.3	5936.5	5922.3	5903.4
10°	5373.2	5463.1	5567.3	5714.0	5832.4	5851.3	5775.6	5756.7	5747.2
12.5°	5240.6	5311.6	5382.7	5510.5	5614.6	5652.5	5609.9	5614.6	5609.9
15°	5089.1	5160.2	5207.5	5302.2	5373.2	5425.3	5406.3	5434.7	5411.1
17.5°	4861.9	4947.1	4966.1	5037.1	5089.1	5122.3	5141.2	5169.6	5131.8
20°	4554.2	4620.5	4644.1	4672.5	4696.2	4738.8	4795.6	4824.0	4781.4
22.5°	4123.4	4251.2	4246.5	4232.3	4255.9	4270.1	4360.1	4407.4	4374.3
25°	3640.5	3773.1	3758.9	3702.1	3706.8	3735.2	3848.8	3910.4	3886.7
27.5°	3134.0	3257.1	3223.9	3115.0	3086.6	3129.2	3276.0	3347.0	3332.8
30°	2646.4	2726.8	2674.8	2480.7	2447.5	2499.6	2689.0	2760.0	2722.1
32.5°	2120.9	2182.4	2158.7	1922.0	1865.2	1917.3	2139.8	2206.1	2163.5
35°	1694.8	1751.6	1718.5	1439.2	1387.1	1443.9	1675.9	1751.6	1713.7
37.5°	1358.7	1401.3	1358.7	1060.4	1013.1	1069.9	1292.4	1391.8	1344.5
40°	1079.4	1112.5	1055.7	781.1	743.3	771.7	980.0	1079.4	1046.2
42.5°	852.1	875.8	814.3	572.8	530.2	568.1	738.5	828.5	809.5
45°	691.2	691.2	615.4	397.7	345.6	383.5	553.9	648.6	653.3
47.5°	591.8	577.6	482.9	265.1	198.8	250.9	440.3	539.7	553.9
50°	511.3	492.3	397.7	194.1	127.8	179.9	364.5	463.9	478.1
52.5°	440.3	426.1	331.4	151.5	89.9	137.3	307.7	402.4	416.6
55°	369.3	359.8	274.6	118.4	71.0	104.1	246.2	326.7	336.1
57.5°	303.0	288.8	222.5	99.4	56.8	85.2	203.6	269.8	279.3
60°	255.6	241.4	179.9	80.5	47.3	66.3	165.7	222.5	232.0
62.5°	213.0	198.8	146.8	66.3	37.9	56.8	132.6	179.9	189.4
65°	170.4	161.0	113.6	52.1	33.1	42.6	104.1	142.0	151.5
67.5°	137.3	127.8	89.9	42.6	28.4	33.1	80.5	113.6	123.1
70°	104.1	94.7	66.3	33.1	23.7	28.4	61.5	85.2	94.7
72.5°	75.7	71.0	52.1	28.4	18.9	23.7	42.6	61.5	71.0
75°	56.8	52.1	37.9	18.9	14.2	18.9	33.1	47.3	52.1
77.5°	37.9	37.9	28.4	14.2	14.2	14.2	23.7	33.1	33.1
80°	28.4	23.7	18.9	9.5	9.5	9.5	14.2	23.7	23.7
82.5°	18.9	14.2	14.2	9.5	9.5	9.5	9.5	14.2	14.2
85°	9.5	9.5	9.5	4.7	4.7	4.7	4.7	9.5	9.5
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)