

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: P859473

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709035 4LBMDSWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

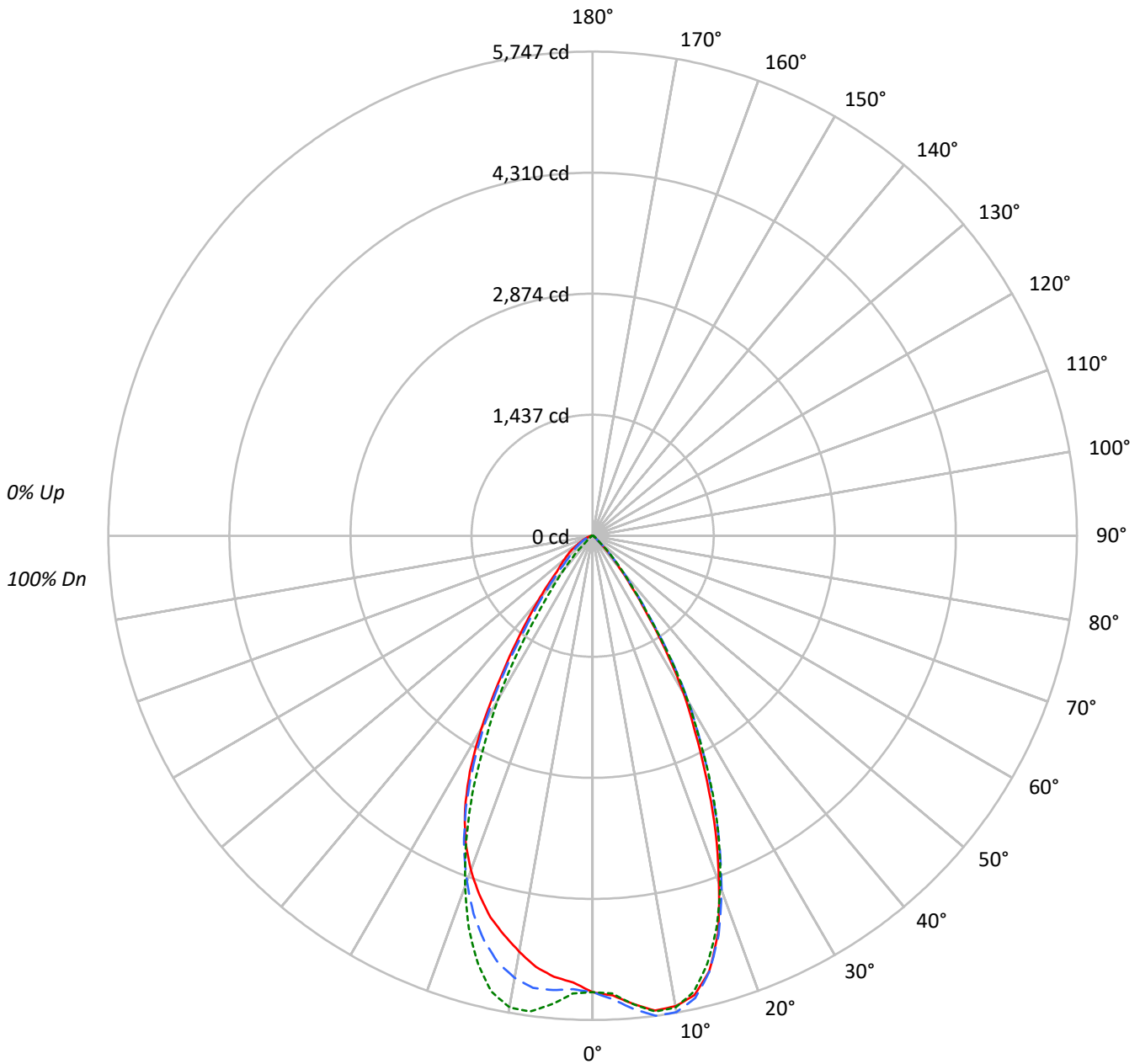
Lumens per Lamp: N/A
Luminaire Lumens: 4816.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859473

CATALOG NUMBER: LD4C70D010 EU4709035 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859473

CATALOG NUMBER: LD4C70D010 EU4709035 4LBMDSWLI

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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	665485	665485	665485
5°	688153	688610	647913
10°	707200	709059	625340
15°	680477	668687	596063
20°	572959	578293	552106
25°	435236	457359	486001
30°	306117	318743	373969
35°	165154	172938	247446
40°	79674	87997	160550
45°	28337	38657	104349
50°	10627	13455	83618
55°	7946	9531	69097
60°	6388	7297	50100
65°	5378	6453	38808
70°	3987	5316	30640
75°	3513	5269	22879
80°	2618	5235	15706
85°	0	5215	10431



TEST NUMBER: P859473

CATALOG NUMBER: LD4C70D010 EU4709035 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.4	11.0
10°-20°	1422.8	29.5
20°-30°	1543.4	32.0
30°-40°	856.3	17.8
40°-50°	272.8	5.7
50°-60°	110.0	2.3
60°-70°	55.6	1.2
70°-80°	23.0	0.5
80°-90°	4.7	0.1
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°	3493.6	72.5
0°-40°	4350.0	90.3
0°-60°	4732.7	98.3
0°-90°	4816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4816.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5417	5417	5417	5417	5417	
5°	5580	5639	5584	5413	5254	536
15°	5350	5354	5258	4976	4686	1463
25°	3211	3344	3374	3556	3585	1467
35°	1101	1190	1153	1524	1650	730
45°	163	193	222	497	601	156
55°	37	37	44	237	323	34
65°	18	18	22	108	134	18
75°	7	7	11	37	48	9
85°	0	0	4	7	7	1
90°	0	0	0	0	0	



TEST NUMBER: P859473

CATALOG NUMBER: LD4C70D010 EU4709035 4LBMSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5416.9	5416.9	5416.9	5416.9	5416.9	5416.9	5416.9	5416.9	5416.9
2.5°	5461.4	5509.6	5505.9	5468.8	5439.2	5428.0	5387.3	5339.1	5305.7
5°	5580.1	5639.4	5639.4	5609.7	5583.8	5520.7	5413.2	5309.4	5253.8
7.5°	5683.9	5743.2	5746.9	5724.7	5695.0	5591.2	5413.2	5246.4	5161.1
10°	5669.0	5713.5	5739.5	5717.2	5683.9	5546.7	5327.9	5105.5	5012.8
12.5°	5583.8	5624.5	5620.8	5587.5	5543.0	5402.1	5187.0	4957.2	4853.3
15°	5350.2	5372.4	5353.9	5316.8	5257.5	5150.0	4975.7	4779.2	4686.5
17.5°	4946.0	4975.7	4968.3	4909.0	4886.7	4782.9	4701.3	4549.3	4467.8
20°	4382.5	4475.2	4475.2	4430.7	4423.3	4352.8	4363.9	4282.4	4223.0
22.5°	3815.2	3896.8	3922.7	3904.2	3919.0	3885.6	3989.5	3967.2	3937.6
25°	3210.8	3292.4	3344.3	3336.9	3374.0	3374.0	3555.7	3600.2	3585.3
27.5°	2643.6	2721.4	2780.8	2795.6	2773.3	2814.1	3062.5	3151.5	3151.5
30°	2157.9	2220.9	2276.5	2276.5	2246.9	2276.5	2539.8	2643.6	2636.2
32.5°	1609.1	1679.6	1731.5	1724.1	1698.1	1738.9	2017.0	2120.8	2094.8
35°	1101.2	1149.4	1190.2	1175.3	1153.1	1219.8	1523.9	1653.6	1649.9
37.5°	745.2	789.7	815.7	804.6	797.2	875.0	1153.1	1297.7	1290.3
40°	496.8	526.5	545.0	541.3	548.7	615.5	867.6	1001.1	1001.1
42.5°	315.2	333.7	352.2	352.2	370.8	441.2	660.0	774.9	774.9
45°	163.1	174.3	192.8	203.9	222.5	296.6	496.8	593.2	600.6
47.5°	77.9	81.6	89.0	92.7	107.5	185.4	381.9	485.7	508.0
50°	55.6	59.3	59.3	59.3	70.4	140.9	322.6	419.0	437.5
52.5°	44.5	44.5	44.5	48.2	55.6	118.6	278.1	363.4	378.2
55°	37.1	37.1	37.1	37.1	44.5	96.4	237.3	311.4	322.6
57.5°	29.7	29.7	29.7	29.7	37.1	77.9	196.5	248.4	252.1
60°	26.0	26.0	26.0	26.0	29.7	66.7	159.4	203.9	203.9
62.5°	22.2	22.2	22.2	22.2	26.0	55.6	133.5	166.8	163.1
65°	18.5	18.5	18.5	18.5	22.2	44.5	107.5	133.5	133.5
67.5°	14.8	14.8	14.8	14.8	18.5	37.1	85.3	107.5	107.5
70°	11.1	11.1	11.1	11.1	14.8	29.7	70.4	85.3	85.3
72.5°	11.1	11.1	11.1	11.1	11.1	22.2	51.9	66.7	63.0
75°	7.4	7.4	7.4	7.4	11.1	18.5	37.1	48.2	48.2
77.5°	7.4	7.4	7.4	7.4	7.4	14.8	29.7	33.4	33.4
80°	3.7	3.7	3.7	3.7	7.4	11.1	18.5	22.2	22.2
82.5°	0.0	3.7	0.0	3.7	3.7	7.4	14.8	14.8	14.8
85°	0.0	0.0	0.0	0.0	3.7	3.7	7.4	11.1	7.4
87.5°	0.0	0.0	0.0	0.0	0.0	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)