

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: P859401

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859401
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: LD4C65D010 EU4659050 4LBMDDWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

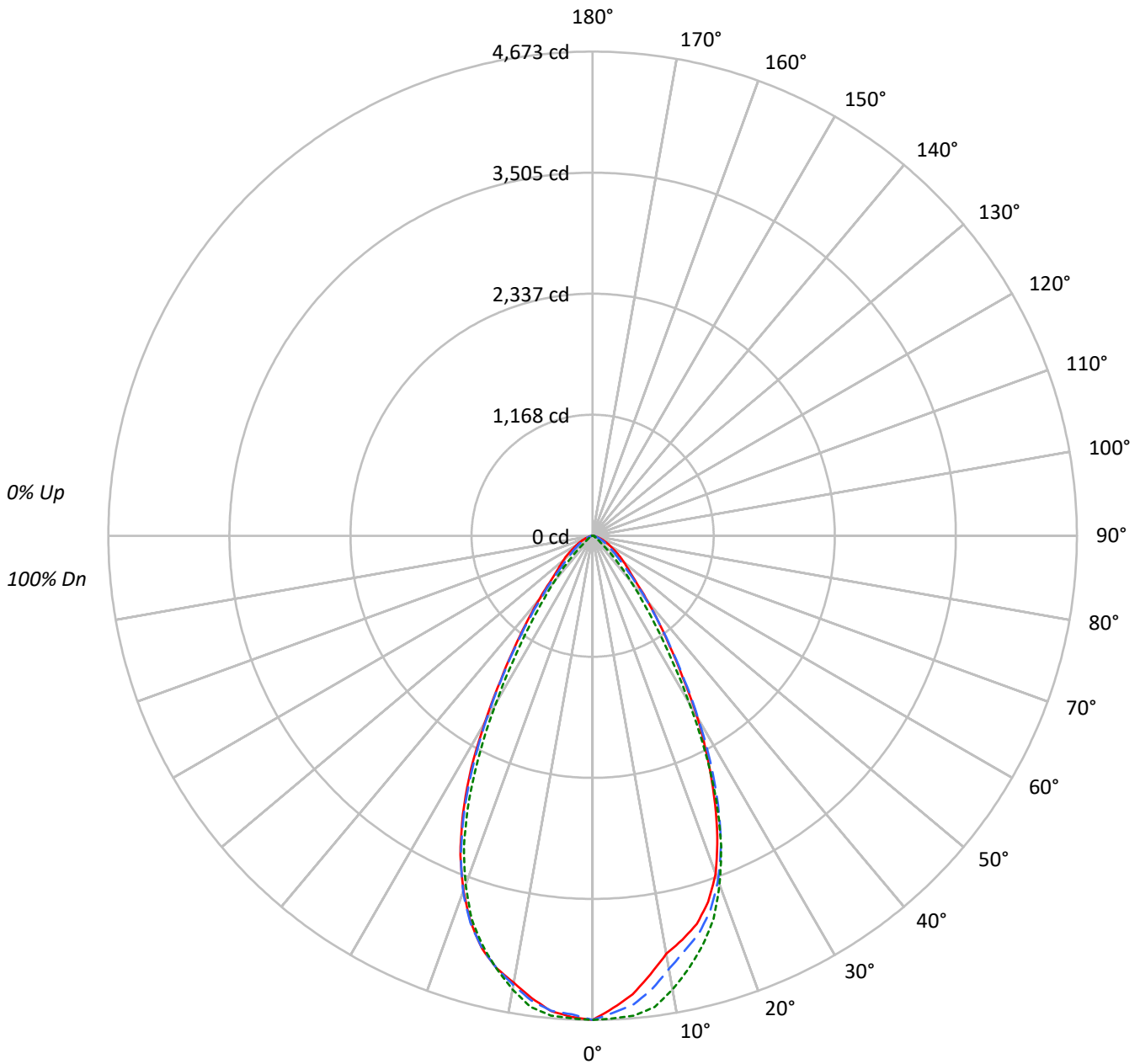
Lumens per Lamp: N/A
Luminaire Lumens: 4254.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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: P859401

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859401

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDDWLI

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°	574094	574094	574094
5°	547800	573167	567827
10°	510921	554583	546487
15°	493372	520908	524584
20°	453831	467990	476474
25°	376148	382994	401578
30°	286144	264652	294343
35°	193740	158570	195914
40°	131940	90852	127898
45°	91527	45763	86523
50°	74482	18616	69665
55°	60294	11588	54875
60°	47888	8870	43441
65°	37761	7355	33575
70°	28520	6466	25934
75°	20553	5126	18844
80°	15352	5094	12735
85°	10149	5075	10149



TEST NUMBER: P859401

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	10.1
10°-20°	1128.9	26.5
20°-30°	1295.2	30.4
30°-40°	786.8	18.5
40°-50°	337.2	7.9
50°-60°	161.8	3.8
60°-70°	78.7	1.8
70°-80°	29.2	0.7
80°-90°	6.7	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°	2853.7	67.1
0°-40°	3640.5	85.6
0°-60°	4139.4	97.3
0°-90°	4254.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4254.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4673	4673	4673	4673	4673	
5°	4442	4539	4648	4601	4604	413
15°	3879	3969	4096	4121	4124	1080
25°	2775	2865	2825	2934	2962	1259
35°	1292	1310	1057	1277	1306	828
45°	527	469	263	422	498	428
55°	282	209	54	188	256	254
65°	130	87	25	79	116	132
75°	43	29	11	25	40	48
85°	7	7	4	4	7	10
90°	0	0	0	0	0	



TEST NUMBER: P859401

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4673.0	4673.0	4673.0	4673.0	4673.0	4673.0	4673.0	4673.0	4673.0
2.5°	4561.1	4611.6	4608.0	4651.3	4662.1	4651.3	4622.4	4651.3	4647.7
5°	4442.0	4499.8	4539.4	4611.6	4647.7	4640.5	4600.8	4608.0	4604.4
7.5°	4268.8	4341.0	4409.5	4517.8	4586.4	4582.7	4525.0	4514.2	4499.8
10°	4095.6	4164.2	4243.6	4355.4	4445.6	4460.1	4402.3	4387.9	4380.7
12.5°	3994.6	4048.7	4102.8	4200.2	4279.6	4308.5	4276.0	4279.6	4276.0
15°	3879.1	3933.2	3969.3	4041.5	4095.6	4135.3	4120.9	4142.5	4124.5
17.5°	3705.9	3770.8	3785.3	3839.4	3879.1	3904.4	3918.8	3940.4	3911.6
20°	3471.3	3521.9	3539.9	3561.6	3579.6	3612.1	3655.4	3677.0	3644.5
22.5°	3143.0	3240.4	3236.8	3226.0	3244.0	3254.8	3323.4	3359.5	3334.2
25°	2774.9	2875.9	2865.1	2821.8	2825.4	2847.1	2933.7	2980.6	2962.5
27.5°	2388.8	2482.6	2457.4	2374.4	2352.7	2385.2	2497.1	2551.2	2540.4
30°	2017.1	2078.5	2038.8	1890.8	1865.6	1905.3	2049.6	2103.7	2074.9
32.5°	1616.6	1663.5	1645.5	1465.0	1421.7	1461.4	1631.0	1681.5	1649.1
35°	1291.8	1335.1	1309.9	1097.0	1057.3	1100.6	1277.4	1335.1	1306.3
37.5°	1035.6	1068.1	1035.6	808.3	772.2	815.5	985.1	1060.9	1024.8
40°	822.7	848.0	804.7	595.4	566.5	588.2	747.0	822.7	797.5
42.5°	649.5	667.6	620.7	436.6	404.1	433.0	562.9	631.5	617.0
45°	526.8	526.8	469.1	303.1	263.4	292.3	422.2	494.4	498.0
47.5°	451.1	440.2	368.1	202.1	151.6	191.2	335.6	411.4	422.2
50°	389.7	375.3	303.1	147.9	97.4	137.1	277.9	353.6	364.5
52.5°	335.6	324.8	252.6	115.5	68.6	104.6	234.5	306.7	317.5
55°	281.5	274.2	209.3	90.2	54.1	79.4	187.6	249.0	256.2
57.5°	230.9	220.1	169.6	75.8	43.3	65.0	155.2	205.7	212.9
60°	194.9	184.0	137.1	61.3	36.1	50.5	126.3	169.6	176.8
62.5°	162.4	151.6	111.9	50.5	28.9	43.3	101.0	137.1	144.3
65°	129.9	122.7	86.6	39.7	25.3	32.5	79.4	108.3	115.5
67.5°	104.6	97.4	68.6	32.5	21.7	25.3	61.3	86.6	93.8
70°	79.4	72.2	50.5	25.3	18.0	21.7	46.9	65.0	72.2
72.5°	57.7	54.1	39.7	21.7	14.4	18.0	32.5	46.9	54.1
75°	43.3	39.7	28.9	14.4	10.8	14.4	25.3	36.1	39.7
77.5°	28.9	28.9	21.7	10.8	10.8	10.8	18.0	25.3	25.3
80°	21.7	18.0	14.4	7.2	7.2	7.2	10.8	18.0	18.0
82.5°	14.4	10.8	10.8	7.2	7.2	7.2	7.2	10.8	10.8
85°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	7.2	7.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)