

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: P859405

Luminaire Tested: **LD4C65D010 EU4659050 4LBMDSWMW**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859405  
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 4LBMDSWMW  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

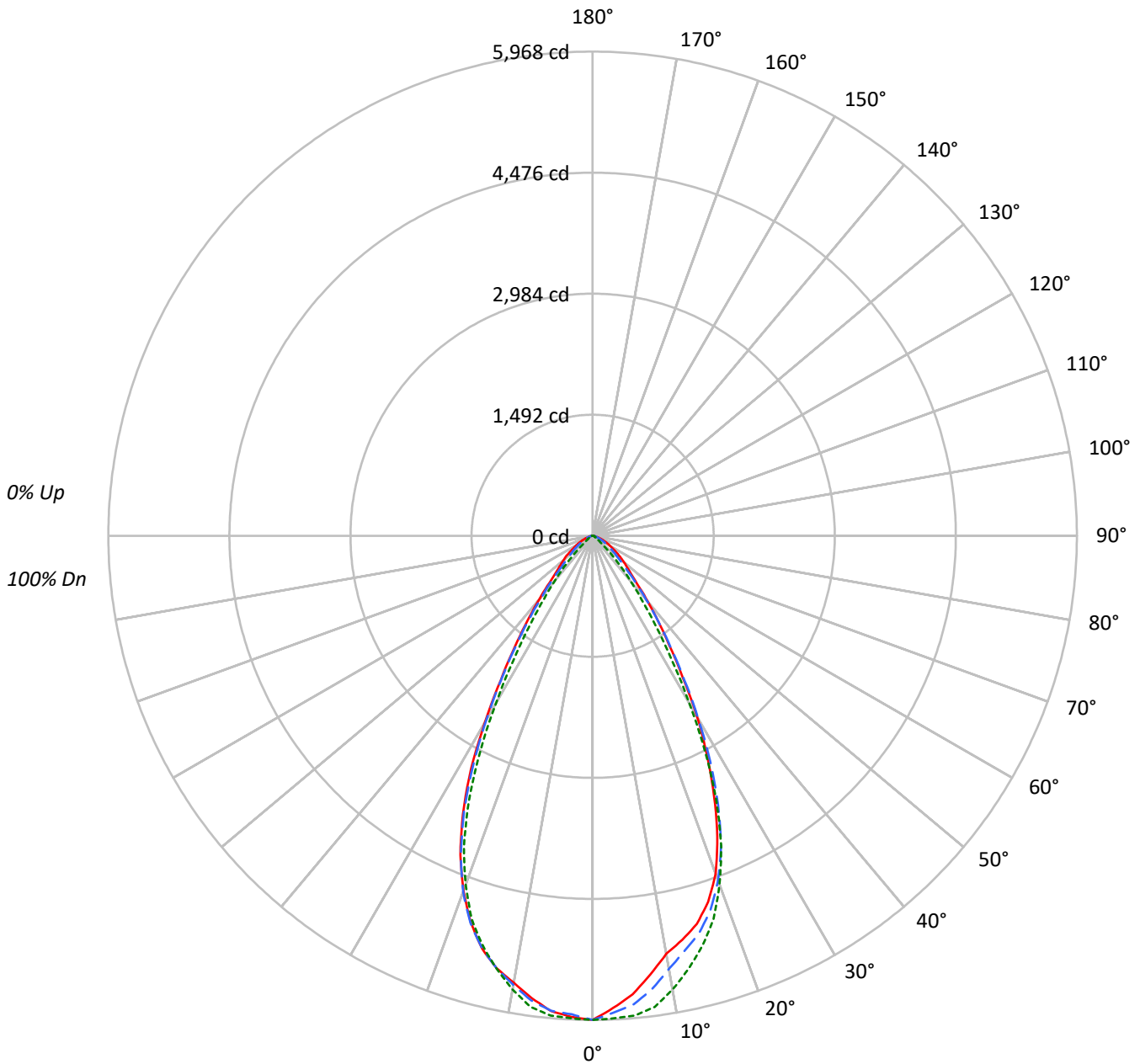
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5433.0 lumens  
Efficiency: N/A  
Efficacy: 75.0 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<sub>in</sub>): 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: P859405

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWMW

### Luminous Intensity Polar Plot





TEST NUMBER: P859405

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWMW

**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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	733202	733202	733202
5°	699622	732019	725199
10°	652523	708286	697944
15°	630111	665278	669972
20°	579614	597695	608533
25°	480403	489146	512881
30°	365457	337993	375912
35°	247446	202513	250206
40°	168505	116030	163341
45°	116893	58446	110499
50°	95123	23776	88969
55°	77001	14800	70082
60°	61156	11327	55481
65°	48226	9389	42878
70°	36423	8262	33118
75°	26249	6550	24066
80°	19597	6509	16272
85°	12968	6484	12968



TEST NUMBER: P859405

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWMW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.7	10.1
10°-20°	1441.7	26.5
20°-30°	1654.1	30.4
30°-40°	1004.9	18.5
40°-50°	430.7	7.9
50°-60°	206.6	3.8
60°-70°	100.5	1.8
70°-80°	37.3	0.7
80°-90°	8.6	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°	3644.6	67.1
0°-40°	4649.4	85.6
0°-60°	5286.7	97.3
0°-90°	5433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5968	5968	5968	5968	5968	
5°	5673	5798	5936	5876	5880	527
15°	4954	5069	5231	5263	5268	1379
25°	3544	3659	3608	3747	3784	1608
35°	1650	1673	1350	1631	1668	1057
45°	673	599	336	539	636	547
55°	360	267	69	240	327	324
65°	166	111	32	101	148	168
75°	55	37	14	32	51	61
85°	9	9	5	5	9	13
90°	0	0	0	0	0	



TEST NUMBER: P859405

CATALOG NUMBER: LD4C65D010 EU4659050 4LBMDSWMW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5968.1	5968.1	5968.1	5968.1	5968.1	5968.1	5968.1	5968.1	5968.1
2.5°	5825.2	5889.7	5885.1	5940.4	5954.2	5940.4	5903.6	5940.4	5935.8
5°	5673.1	5746.9	5797.6	5889.7	5935.8	5926.6	5875.9	5885.1	5880.5
7.5°	5451.9	5544.1	5631.6	5769.9	5857.5	5852.9	5779.1	5765.3	5746.9
10°	5230.7	5318.3	5419.7	5562.5	5677.7	5696.2	5622.4	5604.0	5594.8
12.5°	5101.7	5170.8	5239.9	5364.4	5465.7	5502.6	5461.1	5465.7	5461.1
15°	4954.2	5023.3	5069.4	5161.6	5230.7	5281.4	5263.0	5290.6	5267.6
17.5°	4733.0	4815.9	4834.4	4903.5	4954.2	4986.5	5004.9	5032.5	4995.7
20°	4433.4	4497.9	4521.0	4548.6	4571.7	4613.2	4668.5	4696.1	4654.6
22.5°	4014.0	4138.5	4133.9	4120.0	4143.1	4156.9	4244.5	4290.6	4258.3
25°	3544.0	3673.0	3659.2	3603.9	3608.5	3636.1	3746.8	3806.7	3783.6
27.5°	3050.9	3170.7	3138.4	3032.4	3004.8	3046.3	3189.1	3258.2	3244.4
30°	2576.2	2654.5	2603.8	2414.9	2382.6	2433.3	2617.7	2686.8	2649.9
32.5°	2064.6	2124.5	2101.5	1871.1	1815.8	1866.5	2083.1	2147.6	2106.1
35°	1649.9	1705.2	1672.9	1401.0	1350.3	1405.6	1631.4	1705.2	1668.3
37.5°	1322.7	1364.1	1322.7	1032.3	986.2	1041.5	1258.1	1354.9	1308.8
40°	1050.7	1083.0	1027.7	760.4	723.5	751.2	954.0	1050.7	1018.5
42.5°	829.5	852.6	792.7	557.6	516.2	553.0	718.9	806.5	788.1
45°	672.8	672.8	599.1	387.1	336.4	373.3	539.2	631.4	636.0
47.5°	576.1	562.2	470.1	258.1	193.6	244.3	428.6	525.4	539.2
50°	497.7	479.3	387.1	189.0	124.4	175.1	354.9	451.6	465.5
52.5°	428.6	414.8	322.6	147.5	87.6	133.6	299.6	391.7	405.6
55°	359.5	350.2	267.3	115.2	69.1	101.4	239.6	318.0	327.2
57.5°	294.9	281.1	216.6	96.8	55.3	83.0	198.2	262.7	271.9
60°	248.9	235.0	175.1	78.3	46.1	64.5	161.3	216.6	225.8
62.5°	207.4	193.6	142.9	64.5	36.9	55.3	129.0	175.1	184.3
65°	165.9	156.7	110.6	50.7	32.3	41.5	101.4	138.3	147.5
67.5°	133.6	124.4	87.6	41.5	27.7	32.3	78.3	110.6	119.8
70°	101.4	92.2	64.5	32.3	23.0	27.7	59.9	83.0	92.2
72.5°	73.7	69.1	50.7	27.7	18.4	23.0	41.5	59.9	69.1
75°	55.3	50.7	36.9	18.4	13.8	18.4	32.3	46.1	50.7
77.5°	36.9	36.9	27.7	13.8	13.8	13.8	23.0	32.3	32.3
80°	27.7	23.0	18.4	9.2	9.2	9.2	13.8	23.0	23.0
82.5°	18.4	13.8	13.8	9.2	9.2	9.2	9.2	13.8	13.8
85°	9.2	9.2	9.2	4.6	4.6	4.6	4.6	9.2	9.2
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)