

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: P857369

Luminaire Tested: **LD4C25D010 EU4259035 4LBMDDWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P857369  
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: LD4C25D010 EU4259035 4LBMDDWLI  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

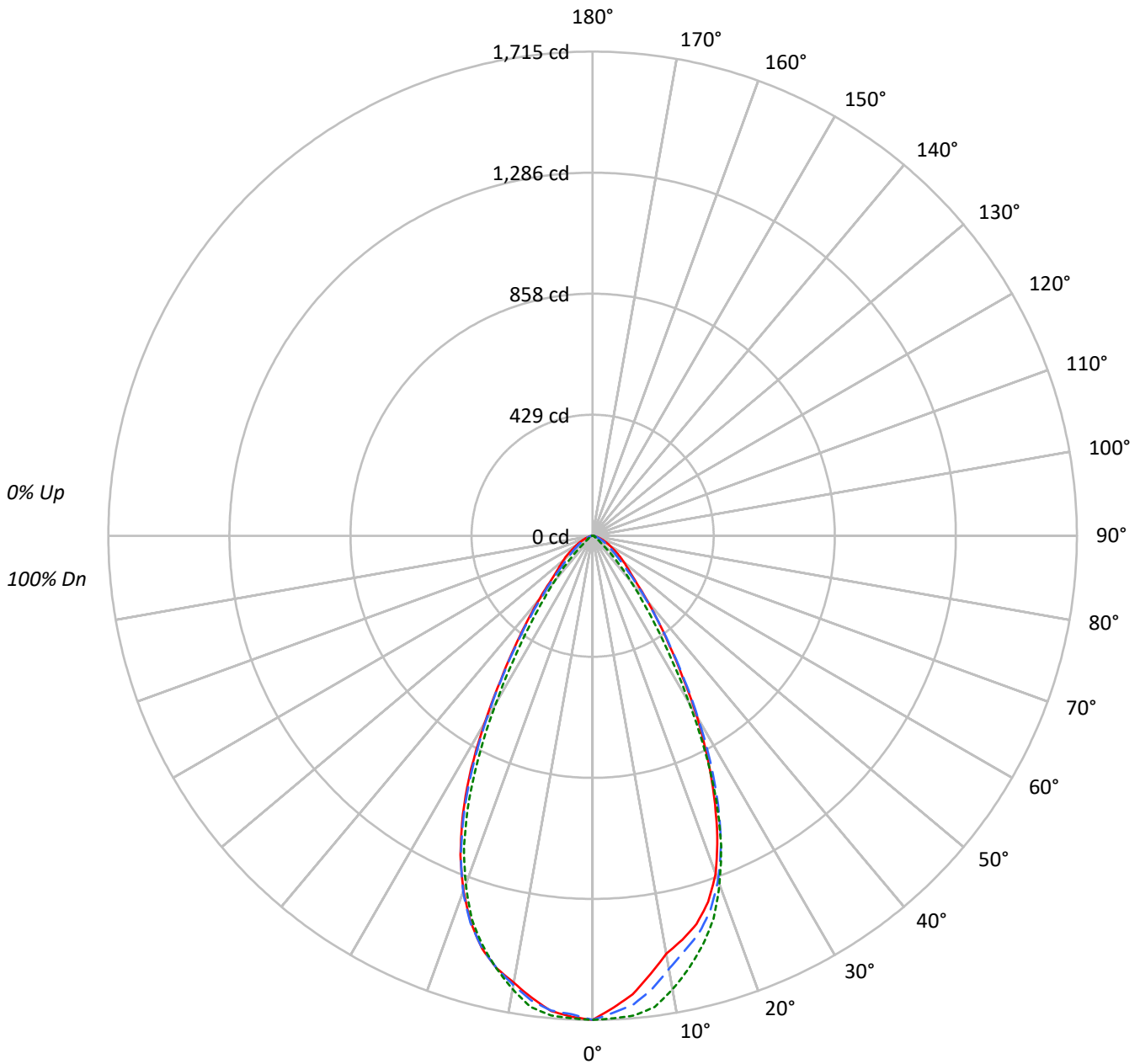
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1561.0 lumens  
Efficiency: N/A  
Efficacy: 49.6 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): 31.5  
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

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### Luminous Intensity Polar Plot





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**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°	210657	210657	210657
5°	201016	210327	208366
10°	187485	203503	200534
15°	181038	191150	192498
20°	166534	171724	174849
25°	138021	140542	147361
30°	105004	97117	108011
35°	71089	58191	71884
40°	48417	33342	46925
45°	33584	16801	31742
50°	27331	6842	25554
55°	22126	4262	20134
60°	17568	3243	15946
65°	13866	2703	12326
70°	10453	2371	9519
75°	7547	1899	6930
80°	5589	1839	4669
85°	3665	1832	3665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.7	10.1
10°-20°	414.2	26.5
20°-30°	475.3	30.4
30°-40°	288.7	18.5
40°-50°	123.7	7.9
50°-60°	59.4	3.8
60°-70°	28.9	1.8
70°-80°	10.7	0.7
80°-90°	2.4	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°	1047.2	67.1
0°-40°	1335.9	85.6
0°-60°	1519.0	97.3
0°-90°	1561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1561.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1715	1715	1715	1715	1715	
5°	1630	1666	1706	1688	1690	151
15°	1423	1456	1503	1512	1514	396
25°	1018	1051	1037	1076	1087	462
35°	474	481	388	469	479	304
45°	193	172	97	155	183	157
55°	103	77	20	69	94	93
65°	48	32	9	29	42	48
75°	16	11	4	9	15	17
85°	3	3	1	1	3	4
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°	1714.7	1714.7	1714.7	1714.7	1714.7	1714.7	1714.7	1714.7	1714.7
2.5°	1673.7	1692.2	1690.9	1706.8	1710.8	1706.8	1696.2	1706.8	1705.5
5°	1630.0	1651.2	1665.7	1692.2	1705.5	1702.8	1688.3	1690.9	1689.6
7.5°	1566.4	1592.9	1618.1	1657.8	1683.0	1681.6	1660.4	1656.5	1651.2
10°	1502.9	1528.0	1557.2	1598.2	1631.3	1636.6	1615.4	1610.1	1607.5
12.5°	1465.8	1485.7	1505.5	1541.3	1570.4	1581.0	1569.1	1570.4	1569.1
15°	1423.4	1443.3	1456.5	1483.0	1502.9	1517.4	1512.1	1520.1	1513.5
17.5°	1359.9	1383.7	1389.0	1408.9	1423.4	1432.7	1438.0	1445.9	1435.3
20°	1273.8	1292.3	1299.0	1306.9	1313.5	1325.4	1341.3	1349.3	1337.4
22.5°	1153.3	1189.1	1187.7	1183.8	1190.4	1194.4	1219.5	1232.8	1223.5
25°	1018.2	1055.3	1051.4	1035.5	1036.8	1044.7	1076.5	1093.7	1087.1
27.5°	876.6	911.0	901.7	871.3	863.3	875.2	916.3	936.2	932.2
30°	740.2	762.7	748.1	693.8	684.6	699.1	752.1	772.0	761.4
32.5°	593.2	610.4	603.8	537.6	521.7	536.3	598.5	617.0	605.1
35°	474.0	489.9	480.7	402.5	388.0	403.9	468.7	489.9	479.3
37.5°	380.0	391.9	380.0	296.6	283.4	299.3	361.5	389.3	376.1
40°	301.9	311.2	295.3	218.5	207.9	215.8	274.1	301.9	292.6
42.5°	238.3	245.0	227.7	160.2	148.3	158.9	206.6	231.7	226.4
45°	193.3	193.3	172.1	111.2	96.7	107.3	154.9	181.4	182.7
47.5°	165.5	161.5	135.1	74.2	55.6	70.2	123.1	150.9	154.9
50°	143.0	137.7	111.2	54.3	35.8	50.3	102.0	129.8	133.7
52.5°	123.1	119.2	92.7	42.4	25.2	38.4	86.1	112.6	116.5
55°	103.3	100.6	76.8	33.1	19.9	29.1	68.9	91.4	94.0
57.5°	84.7	80.8	62.2	27.8	15.9	23.8	56.9	75.5	78.1
60°	71.5	67.5	50.3	22.5	13.2	18.5	46.3	62.2	64.9
62.5°	59.6	55.6	41.0	18.5	10.6	15.9	37.1	50.3	53.0
65°	47.7	45.0	31.8	14.6	9.3	11.9	29.1	39.7	42.4
67.5°	38.4	35.8	25.2	11.9	7.9	9.3	22.5	31.8	34.4
70°	29.1	26.5	18.5	9.3	6.6	7.9	17.2	23.8	26.5
72.5°	21.2	19.9	14.6	7.9	5.3	6.6	11.9	17.2	19.9
75°	15.9	14.6	10.6	5.3	4.0	5.3	9.3	13.2	14.6
77.5°	10.6	10.6	7.9	4.0	4.0	4.0	6.6	9.3	9.3
80°	7.9	6.6	5.3	2.6	2.6	2.6	4.0	6.6	6.6
82.5°	5.3	4.0	4.0	2.6	2.6	2.6	2.6	4.0	4.0
85°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	2.6	2.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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)