

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: P857330

Luminaire Tested: **LD4C25D010 EU4259027 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857330  
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: LD4C25D010 EU4259027 4LBMDSWLI  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

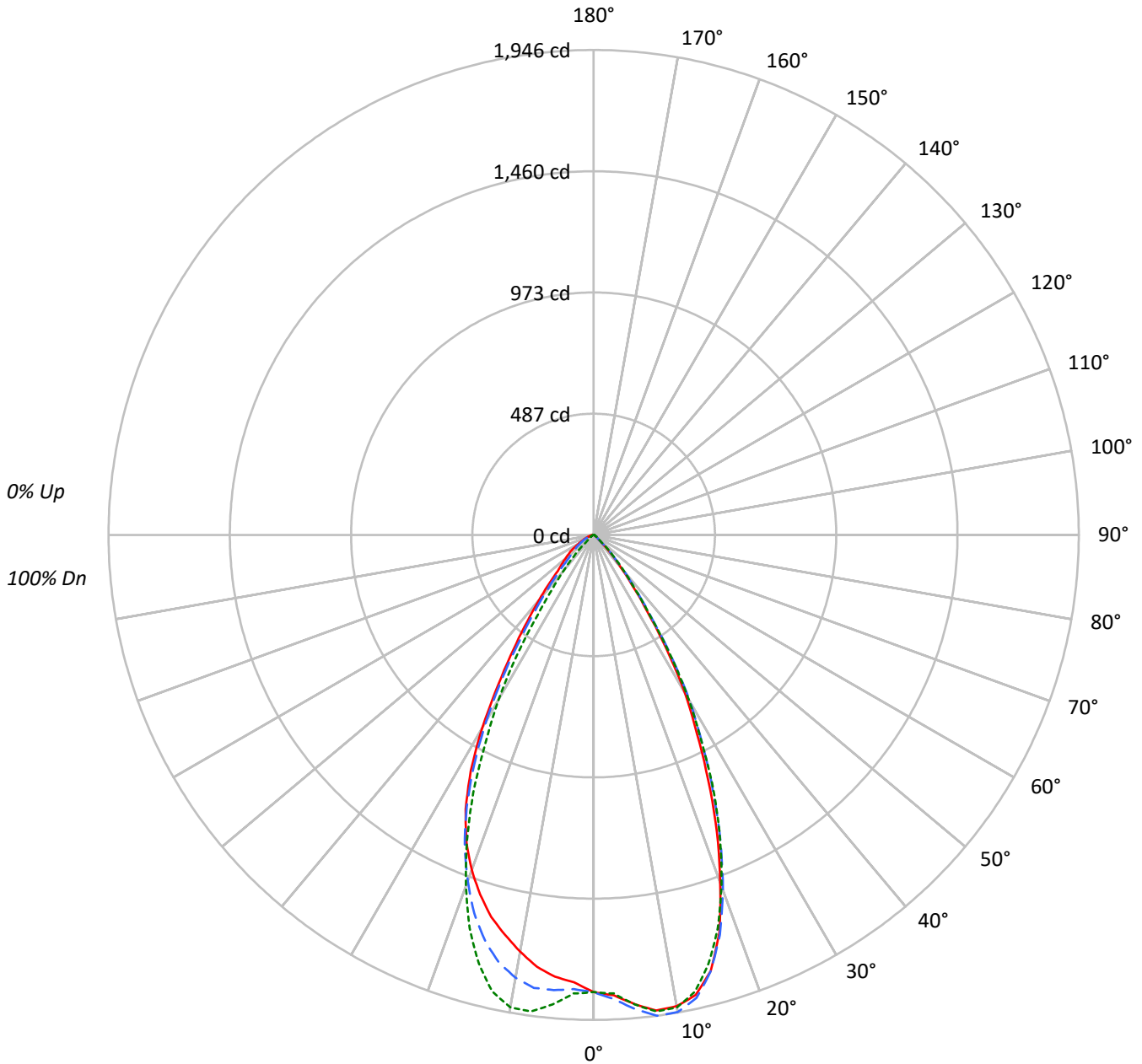
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1631.0 lumens  
Efficiency: N/A  
Efficacy: 51.8 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): 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

TEST NUMBER: P857330

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P857330

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDSWLI

**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	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	59	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°	225375	225375	225375
5°	233055	233203	219428
10°	239505	240129	211773
15°	230451	226457	201859
20°	194041	195845	186981
25°	147401	154884	164589
30°	103671	107940	126652
35°	55926	58566	83807
40°	26991	29797	54367
45°	9591	13083	35339
50°	3593	4568	28325
55°	2699	3234	23389
60°	2162	2457	16978
65°	1831	2180	13139
70°	1365	1796	10381
75°	1187	1804	7737
80°	920	1769	5306
85°	0	1832	3524



TEST NUMBER: P857330

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.6	11.0
10°-20°	481.9	29.5
20°-30°	522.7	32.0
30°-40°	290.0	17.8
40°-50°	92.4	5.7
50°-60°	37.2	2.3
60°-70°	18.8	1.2
70°-80°	7.8	0.5
80°-90°	1.6	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°	1183.2	72.5
0°-40°	1473.2	90.3
0°-60°	1602.8	98.3
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1834	1834	1834	1834	1834	
5°	1890	1910	1891	1833	1779	182
15°	1812	1813	1780	1685	1587	495
25°	1087	1133	1143	1204	1214	497
35°	373	403	390	516	559	247
45°	55	65	75	168	203	53
55°	13	13	15	80	109	11
65°	6	6	8	36	45	6
75°	2	2	4	13	16	3
85°	0	0	1	2	2	0
90°	0	0	0	0	0	



TEST NUMBER: P857330

CATALOG NUMBER: LD4C25D010 EU4259027 4LBMDSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5
2.5°	1849.6	1865.9	1864.6	1852.1	1842.0	1838.3	1824.5	1808.1	1796.8
5°	1889.8	1909.8	1909.8	1899.8	1891.0	1869.7	1833.3	1798.1	1779.3
7.5°	1924.9	1945.0	1946.3	1938.7	1928.7	1893.5	1833.3	1776.7	1747.9
10°	1919.9	1935.0	1943.7	1936.2	1924.9	1878.5	1804.4	1729.0	1697.6
12.5°	1891.0	1904.8	1903.6	1892.3	1877.2	1829.5	1756.7	1678.8	1643.6
15°	1811.9	1819.4	1813.2	1800.6	1780.5	1744.1	1685.1	1618.5	1587.1
17.5°	1675.0	1685.1	1682.6	1662.5	1654.9	1619.8	1592.2	1540.7	1513.1
20°	1484.2	1515.6	1515.6	1500.5	1498.0	1474.1	1477.9	1450.3	1430.2
22.5°	1292.1	1319.7	1328.5	1322.2	1327.2	1315.9	1351.1	1343.5	1333.5
25°	1087.4	1115.0	1132.6	1130.1	1142.6	1142.6	1204.2	1219.2	1214.2
27.5°	895.3	921.6	941.7	946.8	939.2	953.0	1037.2	1067.3	1067.3
30°	730.8	752.1	771.0	771.0	760.9	771.0	860.1	895.3	892.8
32.5°	545.0	568.8	586.4	583.9	575.1	588.9	683.1	718.2	709.4
35°	372.9	389.3	403.1	398.0	390.5	413.1	516.1	560.0	558.8
37.5°	252.4	267.5	276.2	272.5	270.0	296.3	390.5	439.5	437.0
40°	168.3	178.3	184.6	183.3	185.8	208.4	293.8	339.0	339.0
42.5°	106.7	113.0	119.3	119.3	125.6	149.4	223.5	262.4	262.4
45°	55.2	59.0	65.3	69.1	75.3	100.5	168.3	200.9	203.4
47.5°	26.4	27.6	30.1	31.4	36.4	62.8	129.3	164.5	172.0
50°	18.8	20.1	20.1	20.1	23.9	47.7	109.2	141.9	148.2
52.5°	15.1	15.1	15.1	16.3	18.8	40.2	94.2	123.1	128.1
55°	12.6	12.6	12.6	12.6	15.1	32.6	80.4	105.5	109.2
57.5°	10.0	10.0	10.0	10.0	12.6	26.4	66.5	84.1	85.4
60°	8.8	8.8	8.8	8.8	10.0	22.6	54.0	69.1	69.1
62.5°	7.5	7.5	7.5	7.5	8.8	18.8	45.2	56.5	55.2
65°	6.3	6.3	6.3	6.3	7.5	15.1	36.4	45.2	45.2
67.5°	5.0	5.0	5.0	5.0	6.3	12.6	28.9	36.4	36.4
70°	3.8	3.8	3.8	3.8	5.0	10.0	23.9	28.9	28.9
72.5°	3.8	3.8	3.8	3.8	3.8	7.5	17.6	22.6	21.3
75°	2.5	2.5	2.5	2.5	3.8	6.3	12.6	16.3	16.3
77.5°	2.5	2.5	2.5	2.5	2.5	5.0	10.0	11.3	11.3
80°	1.3	1.3	1.3	1.3	2.5	3.8	6.3	7.5	7.5
82.5°	0.0	1.3	0.0	1.3	1.3	2.5	5.0	5.0	5.0
85°	0.0	0.0	0.0	0.0	1.3	1.3	2.5	3.8	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	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)