

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: P857413

Luminaire Tested: **LD4C25D010 EU4259050 4LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P857413  
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 EU4259050 4LBMDSWH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

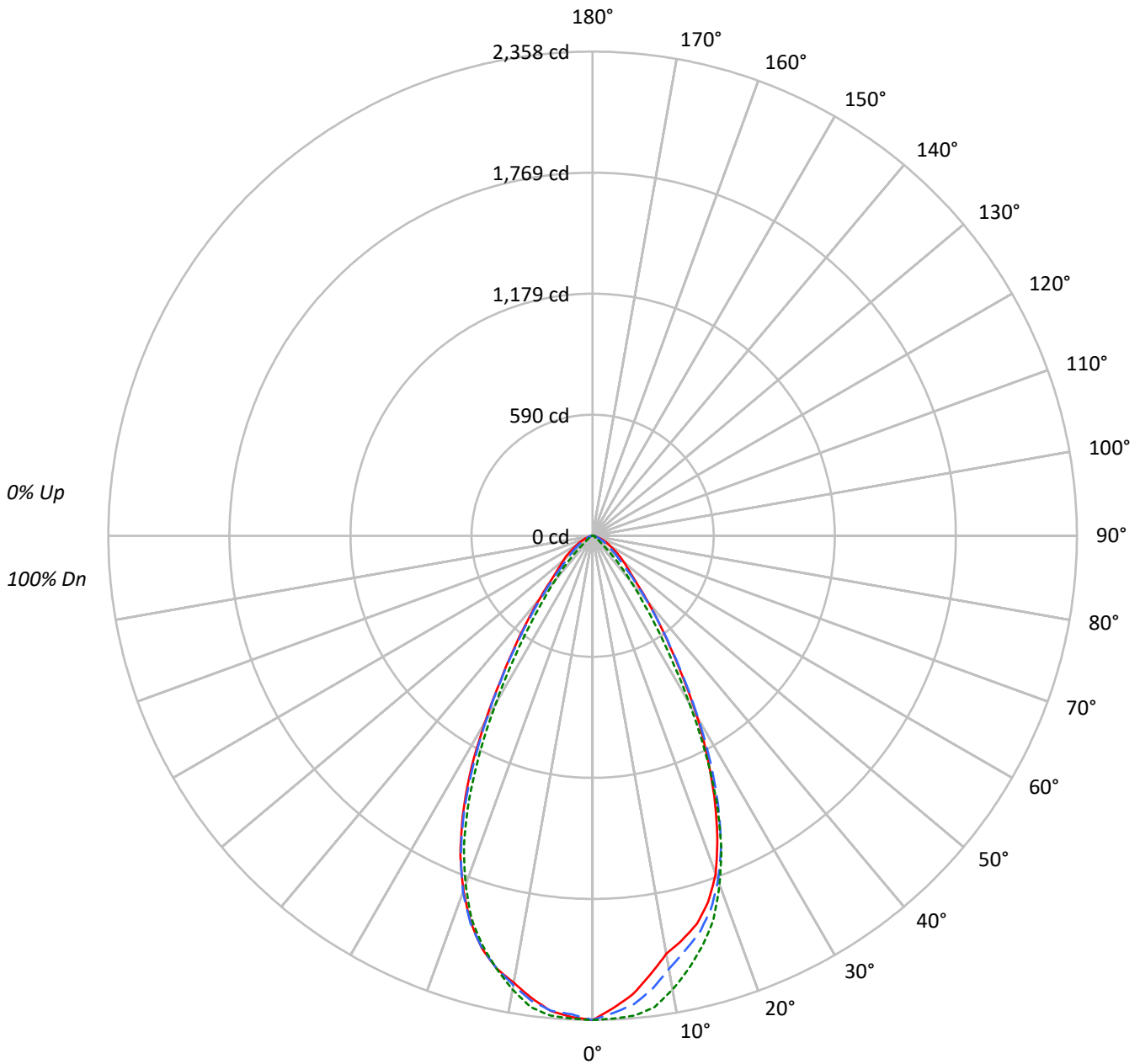
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2147.0 lumens  
Efficiency: N/A  
Efficacy: 68.2 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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

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

	0°	90°	180°
0°	289738	289738	289738
5°	276477	289278	286577
10°	257868	279899	275807
15°	249007	262909	264753
20°	229053	236191	240479
25°	189843	193300	202680
30°	144412	133574	148555
35°	97785	80027	98879
40°	66587	45851	64550
45°	46198	23090	43661
50°	37594	9403	35148
55°	30436	5847	27695
60°	24153	4472	21917
65°	19070	3692	16948
70°	14404	3269	13075
75°	10395	2611	9493
80°	7712	2547	6438
85°	5075	2537	5075



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.8	10.1
10°-20°	569.7	26.5
20°-30°	653.7	30.4
30°-40°	397.1	18.5
40°-50°	170.2	7.9
50°-60°	81.6	3.8
60°-70°	39.7	1.8
70°-80°	14.7	0.7
80°-90°	3.4	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°	1440.2	67.1
0°-40°	1837.3	85.6
0°-60°	2089.2	97.3
0°-90°	2147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2358	2358	2358	2358	2358	
5°	2242	2291	2346	2322	2324	208
15°	1958	2003	2067	2080	2082	545
25°	1400	1446	1426	1481	1495	635
35°	652	661	534	645	659	418
45°	266	237	133	213	251	216
55°	142	106	27	95	129	128
65°	66	44	13	40	58	67
75°	22	15	6	13	20	24
85°	4	4	2	2	4	5
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°	2358.4	2358.4	2358.4	2358.4	2358.4	2358.4	2358.4	2358.4	2358.4
2.5°	2302.0	2327.5	2325.7	2347.5	2353.0	2347.5	2333.0	2347.5	2345.7
5°	2241.9	2271.0	2291.1	2327.5	2345.7	2342.1	2322.0	2325.7	2323.8
7.5°	2154.5	2190.9	2225.5	2280.1	2314.7	2312.9	2283.8	2278.3	2271.0
10°	2067.1	2101.7	2141.7	2198.2	2243.7	2251.0	2221.9	2214.6	2210.9
12.5°	2016.1	2043.4	2070.7	2119.9	2159.9	2174.5	2158.1	2159.9	2158.1
15°	1957.8	1985.1	2003.3	2039.7	2067.1	2087.1	2079.8	2090.7	2081.6
17.5°	1870.4	1903.1	1910.4	1937.8	1957.8	1970.5	1977.8	1988.7	1974.2
20°	1752.0	1777.5	1786.6	1797.5	1806.6	1823.0	1844.9	1855.8	1839.4
22.5°	1586.3	1635.4	1633.6	1628.1	1637.3	1642.7	1677.3	1695.5	1682.8
25°	1400.5	1451.5	1446.0	1424.2	1426.0	1436.9	1480.6	1504.3	1495.2
27.5°	1205.6	1253.0	1240.2	1198.3	1187.4	1203.8	1260.3	1287.6	1282.1
30°	1018.0	1049.0	1029.0	954.3	941.6	961.6	1034.4	1061.8	1047.2
32.5°	815.9	839.6	830.5	739.4	717.6	737.6	823.2	848.7	832.3
35°	652.0	673.8	661.1	553.6	533.6	555.5	644.7	673.8	659.3
37.5°	522.7	539.1	522.7	407.9	389.7	411.6	497.2	535.4	517.2
40°	415.2	428.0	406.1	300.5	285.9	296.9	377.0	415.2	402.5
42.5°	327.8	336.9	313.2	220.4	204.0	218.5	284.1	318.7	311.4
45°	265.9	265.9	236.8	153.0	132.9	147.5	213.1	249.5	251.3
47.5°	227.6	222.2	185.8	102.0	76.5	96.5	169.4	207.6	213.1
50°	196.7	189.4	153.0	74.7	49.2	69.2	140.2	178.5	183.9
52.5°	169.4	163.9	127.5	58.3	34.6	52.8	118.4	154.8	160.3
55°	142.1	138.4	105.6	45.5	27.3	40.1	94.7	125.7	129.3
57.5°	116.6	111.1	85.6	38.2	21.9	32.8	78.3	103.8	107.5
60°	98.3	92.9	69.2	31.0	18.2	25.5	63.7	85.6	89.2
62.5°	82.0	76.5	56.5	25.5	14.6	21.9	51.0	69.2	72.8
65°	65.6	61.9	43.7	20.0	12.7	16.4	40.1	54.6	58.3
67.5°	52.8	49.2	34.6	16.4	10.9	12.7	31.0	43.7	47.4
70°	40.1	36.4	25.5	12.7	9.1	10.9	23.7	32.8	36.4
72.5°	29.1	27.3	20.0	10.9	7.3	9.1	16.4	23.7	27.3
75°	21.9	20.0	14.6	7.3	5.5	7.3	12.7	18.2	20.0
77.5°	14.6	14.6	10.9	5.5	5.5	5.5	9.1	12.7	12.7
80°	10.9	9.1	7.3	3.6	3.6	3.6	5.5	9.1	9.1
82.5°	7.3	5.5	5.5	3.6	3.6	3.6	3.6	5.5	5.5
85°	3.6	3.6	3.6	1.8	1.8	1.8	1.8	3.6	3.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)