

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: P857352

Luminaire Tested: **LD4C25D010 EU4259030 4LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857352  
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 EU4259030 4LBMDSWMW  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

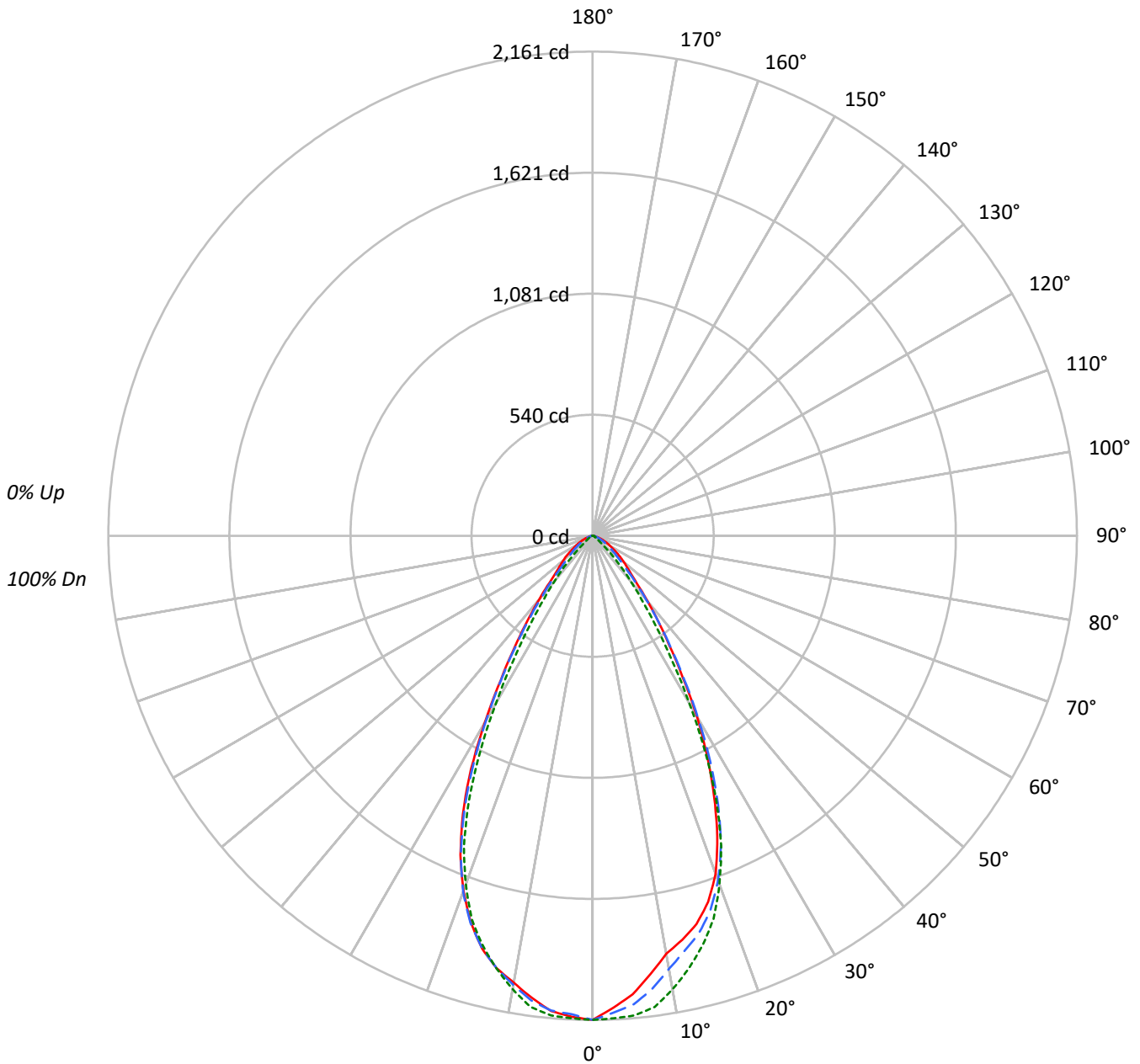
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1967.0 lumens  
Efficiency: N/A  
Efficacy: 62.4 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									
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°	265450	265450	265450
5°	253293	265021	262554
10°	236249	256433	252691
15°	228123	240867	242559
20°	209847	216397	220320
25°	173929	177087	185682
30°	132312	122368	136099
35°	89581	73323	90586
40°	61006	42018	59130
45°	42323	21162	40013
50°	34441	8601	32205
55°	27866	5355	25381
60°	22138	4103	20099
65°	17471	3401	15523
70°	13183	2981	11997
75°	9493	2373	8734
80°	7075	2335	5872
85°	4652	2396	4652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.7	10.1
10°-20°	522.0	26.5
20°-30°	598.9	30.4
30°-40°	363.8	18.5
40°-50°	155.9	7.9
50°-60°	74.8	3.8
60°-70°	36.4	1.8
70°-80°	13.5	0.7
80°-90°	3.1	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°	1319.5	67.1
0°-40°	1683.3	85.6
0°-60°	1914.0	97.3
0°-90°	1967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1967.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2161	2161	2161	2161	2161	
5°	2054	2099	2149	2127	2129	191
15°	1794	1835	1894	1905	1907	499
25°	1283	1325	1306	1356	1370	582
35°	597	606	489	591	604	383
45°	244	217	122	195	230	198
55°	130	97	25	87	118	117
65°	60	40	12	37	53	61
75°	20	13	5	12	18	22
85°	3	3	2	2	3	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°	2160.7	2160.7	2160.7	2160.7	2160.7	2160.7	2160.7	2160.7	2160.7
2.5°	2109.0	2132.4	2130.7	2150.7	2155.7	2150.7	2137.4	2150.7	2149.0
5°	2053.9	2080.6	2099.0	2132.4	2149.0	2145.7	2127.4	2130.7	2129.0
7.5°	1973.8	2007.2	2038.9	2089.0	2120.7	2119.0	2092.3	2087.3	2080.6
10°	1893.8	1925.5	1962.2	2013.9	2055.6	2062.3	2035.6	2028.9	2025.6
12.5°	1847.0	1872.1	1897.1	1942.1	1978.9	1992.2	1977.2	1978.9	1977.2
15°	1793.6	1818.7	1835.4	1868.7	1893.8	1912.1	1905.4	1915.4	1907.1
17.5°	1713.6	1743.6	1750.3	1775.3	1793.6	1805.3	1812.0	1822.0	1808.7
20°	1605.1	1628.5	1636.8	1646.8	1655.2	1670.2	1690.2	1700.2	1685.2
22.5°	1453.3	1498.3	1496.7	1491.6	1500.0	1505.0	1536.7	1553.4	1541.7
25°	1283.1	1329.8	1324.8	1304.8	1306.4	1316.5	1356.5	1378.2	1369.8
27.5°	1104.6	1147.9	1136.3	1097.9	1087.9	1102.9	1154.6	1179.6	1174.6
30°	932.7	961.1	942.7	874.3	862.6	881.0	947.7	972.7	959.4
32.5°	747.5	769.2	760.8	677.4	657.4	675.7	754.2	777.5	762.5
35°	597.3	617.3	605.7	507.2	488.9	508.9	590.7	617.3	604.0
37.5°	478.9	493.9	478.9	373.7	357.1	377.1	455.5	490.5	473.9
40°	380.4	392.1	372.1	275.3	262.0	272.0	345.4	380.4	368.7
42.5°	300.3	308.7	287.0	201.9	186.9	200.2	260.3	292.0	285.3
45°	243.6	243.6	216.9	140.2	121.8	135.1	195.2	228.6	230.3
47.5°	208.6	203.6	170.2	93.4	70.1	88.4	155.2	190.2	195.2
50°	180.2	173.5	140.2	68.4	45.0	63.4	128.5	163.5	168.5
52.5°	155.2	150.2	116.8	53.4	31.7	48.4	108.5	141.8	146.8
55°	130.1	126.8	96.8	41.7	25.0	36.7	86.8	115.1	118.5
57.5°	106.8	101.8	78.4	35.0	20.0	30.0	71.7	95.1	98.4
60°	90.1	85.1	63.4	28.4	16.7	23.4	58.4	78.4	81.8
62.5°	75.1	70.1	51.7	23.4	13.3	20.0	46.7	63.4	66.7
65°	60.1	56.7	40.0	18.4	11.7	15.0	36.7	50.1	53.4
67.5°	48.4	45.0	31.7	15.0	10.0	11.7	28.4	40.0	43.4
70°	36.7	33.4	23.4	11.7	8.3	10.0	21.7	30.0	33.4
72.5°	26.7	25.0	18.4	10.0	6.7	8.3	15.0	21.7	25.0
75°	20.0	18.4	13.3	6.7	5.0	6.7	11.7	16.7	18.4
77.5°	13.3	13.3	10.0	5.0	5.0	5.0	8.3	11.7	11.7
80°	10.0	8.3	6.7	3.3	3.3	3.3	5.0	8.3	8.3
82.5°	6.7	5.0	5.0	3.3	3.3	3.3	3.3	5.0	5.0
85°	3.3	3.3	3.3	1.7	1.7	1.7	1.7	3.3	3.3
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)