

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: P857393

Luminaire Tested: **LD4C25D010 EU4259040 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P857393  
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 EU4259040 4LBMDSWLI  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

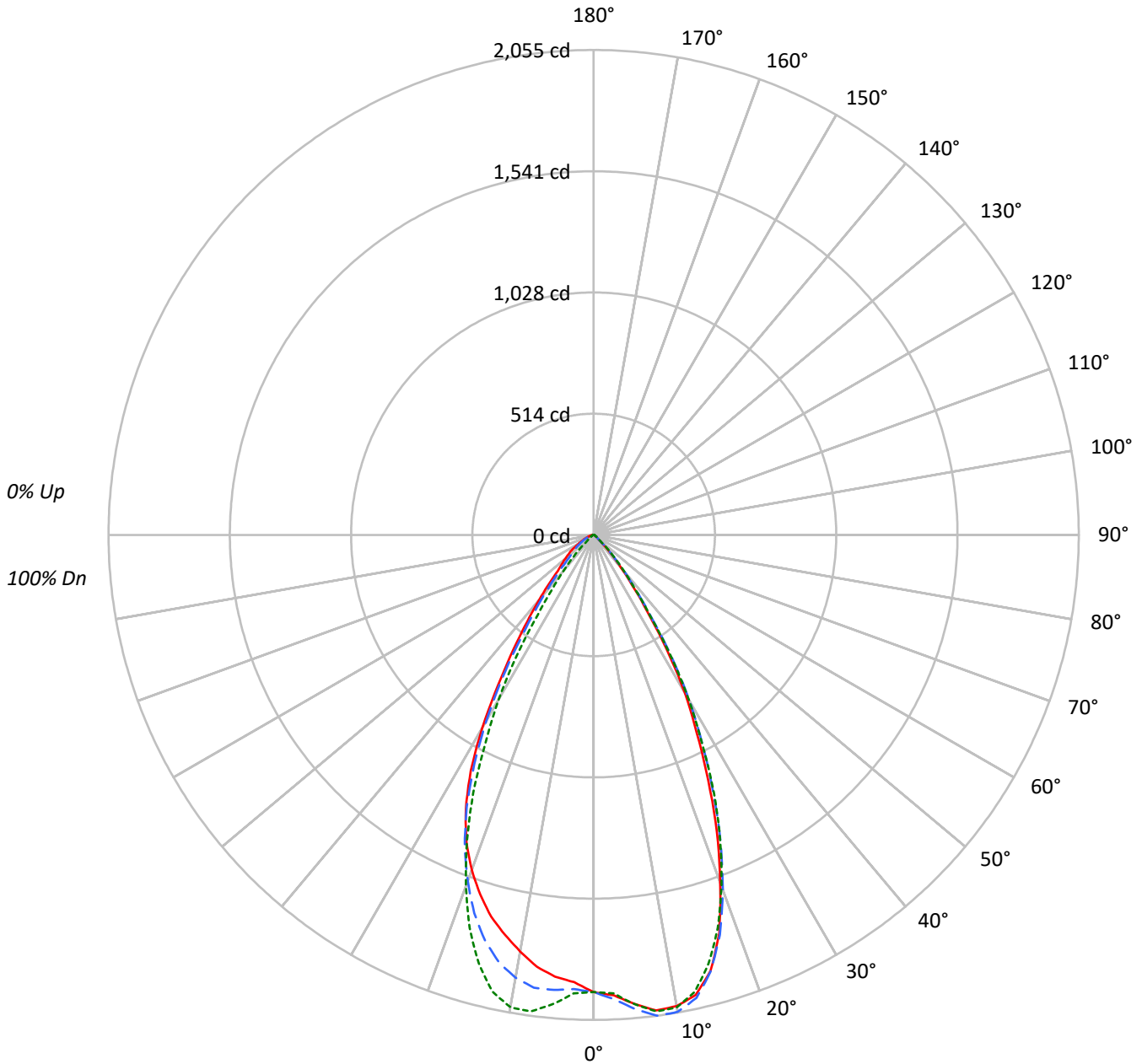
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1722.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 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

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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	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	60	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°	237955	237955	237955
5°	246054	246214	231662
10°	252866	253527	223600
15°	243309	239099	213128
20°	204866	206775	197414
25°	155629	163532	173780
30°	109458	113969	133716
35°	59046	61835	88471
40°	28482	31465	57398
45°	10129	13812	37320
50°	3803	4816	29892
55°	2849	3406	24696
60°	2285	2604	17912
65°	1919	2326	13866
70°	1437	1904	10956
75°	1282	1899	8164
80°	920	1910	5660
85°	0	1832	3806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.6	11.0
10°-20°	508.7	29.5
20°-30°	551.9	32.0
30°-40°	306.2	17.8
40°-50°	97.5	5.7
50°-60°	39.3	2.3
60°-70°	19.9	1.2
70°-80°	8.2	0.5
80°-90°	1.7	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°	1249.2	72.5
0°-40°	1555.4	90.3
0°-60°	1692.2	98.3
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1937	1937	1937	1937	1937	
5°	1995	2016	1996	1936	1878	192
15°	1913	1914	1880	1779	1676	523
25°	1148	1196	1206	1271	1282	524
35°	394	426	412	545	590	261
45°	58	69	80	178	215	56
55°	13	13	16	85	115	12
65°	7	7	8	38	48	7
75°	3	3	4	13	17	3
85°	0	0	1	3	3	0
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°	1936.9	1936.9	1936.9	1936.9	1936.9	1936.9	1936.9	1936.9	1936.9
2.5°	1952.8	1970.0	1968.7	1955.4	1944.8	1940.8	1926.3	1909.0	1897.1
5°	1995.2	2016.4	2016.4	2005.8	1996.5	1974.0	1935.5	1898.4	1878.5
7.5°	2032.3	2053.5	2054.9	2046.9	2036.3	1999.2	1935.5	1875.9	1845.4
10°	2027.0	2042.9	2052.2	2044.2	2032.3	1983.3	1905.0	1825.5	1792.4
12.5°	1996.5	2011.1	2009.8	1997.8	1981.9	1931.6	1854.7	1772.5	1735.4
15°	1913.0	1921.0	1914.3	1901.1	1879.9	1841.4	1779.1	1708.8	1675.7
17.5°	1768.5	1779.1	1776.5	1755.2	1747.3	1710.2	1681.0	1626.6	1597.5
20°	1567.0	1600.1	1600.1	1584.2	1581.6	1556.4	1560.4	1531.2	1510.0
22.5°	1364.2	1393.3	1402.6	1396.0	1401.3	1389.3	1426.5	1418.5	1407.9
25°	1148.1	1177.2	1195.8	1193.1	1206.4	1206.4	1271.4	1287.3	1282.0
27.5°	945.2	973.1	994.3	999.6	991.6	1006.2	1095.0	1126.9	1126.9
30°	771.6	794.1	814.0	814.0	803.4	814.0	908.1	945.2	942.6
32.5°	575.4	600.5	619.1	616.5	607.2	621.8	721.2	758.3	749.0
35°	393.7	411.0	425.6	420.3	412.3	436.2	544.9	591.3	589.9
37.5°	266.5	282.4	291.7	287.7	285.0	312.9	412.3	464.0	461.3
40°	177.6	188.3	194.9	193.6	196.2	220.1	310.2	357.9	357.9
42.5°	112.7	119.3	125.9	125.9	132.6	157.8	236.0	277.1	277.1
45°	58.3	62.3	68.9	72.9	79.5	106.1	177.6	212.1	214.8
47.5°	27.8	29.2	31.8	33.1	38.4	66.3	136.5	173.7	181.6
50°	19.9	21.2	21.2	21.2	25.2	50.4	115.3	149.8	156.4
52.5°	15.9	15.9	15.9	17.2	19.9	42.4	99.4	129.9	135.2
55°	13.3	13.3	13.3	13.3	15.9	34.5	84.8	111.4	115.3
57.5°	10.6	10.6	10.6	10.6	13.3	27.8	70.3	88.8	90.1
60°	9.3	9.3	9.3	9.3	10.6	23.9	57.0	72.9	72.9
62.5°	8.0	8.0	8.0	8.0	9.3	19.9	47.7	59.7	58.3
65°	6.6	6.6	6.6	6.6	8.0	15.9	38.4	47.7	47.7
67.5°	5.3	5.3	5.3	5.3	6.6	13.3	30.5	38.4	38.4
70°	4.0	4.0	4.0	4.0	5.3	10.6	25.2	30.5	30.5
72.5°	4.0	4.0	4.0	4.0	4.0	8.0	18.6	23.9	22.5
75°	2.7	2.7	2.7	2.7	4.0	6.6	13.3	17.2	17.2
77.5°	2.7	2.7	2.7	2.7	2.7	5.3	10.6	11.9	11.9
80°	1.3	1.3	1.3	1.3	2.7	4.0	6.6	8.0	8.0
82.5°	0.0	1.3	0.0	1.3	1.3	2.7	5.3	5.3	5.3
85°	0.0	0.0	0.0	0.0	1.3	1.3	2.7	4.0	2.7
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)