

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: P857202

Luminaire Tested: **LD4C20D010 EU4209050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857202
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: LD4C20D010 EU4209050 4LBMDSWMW
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

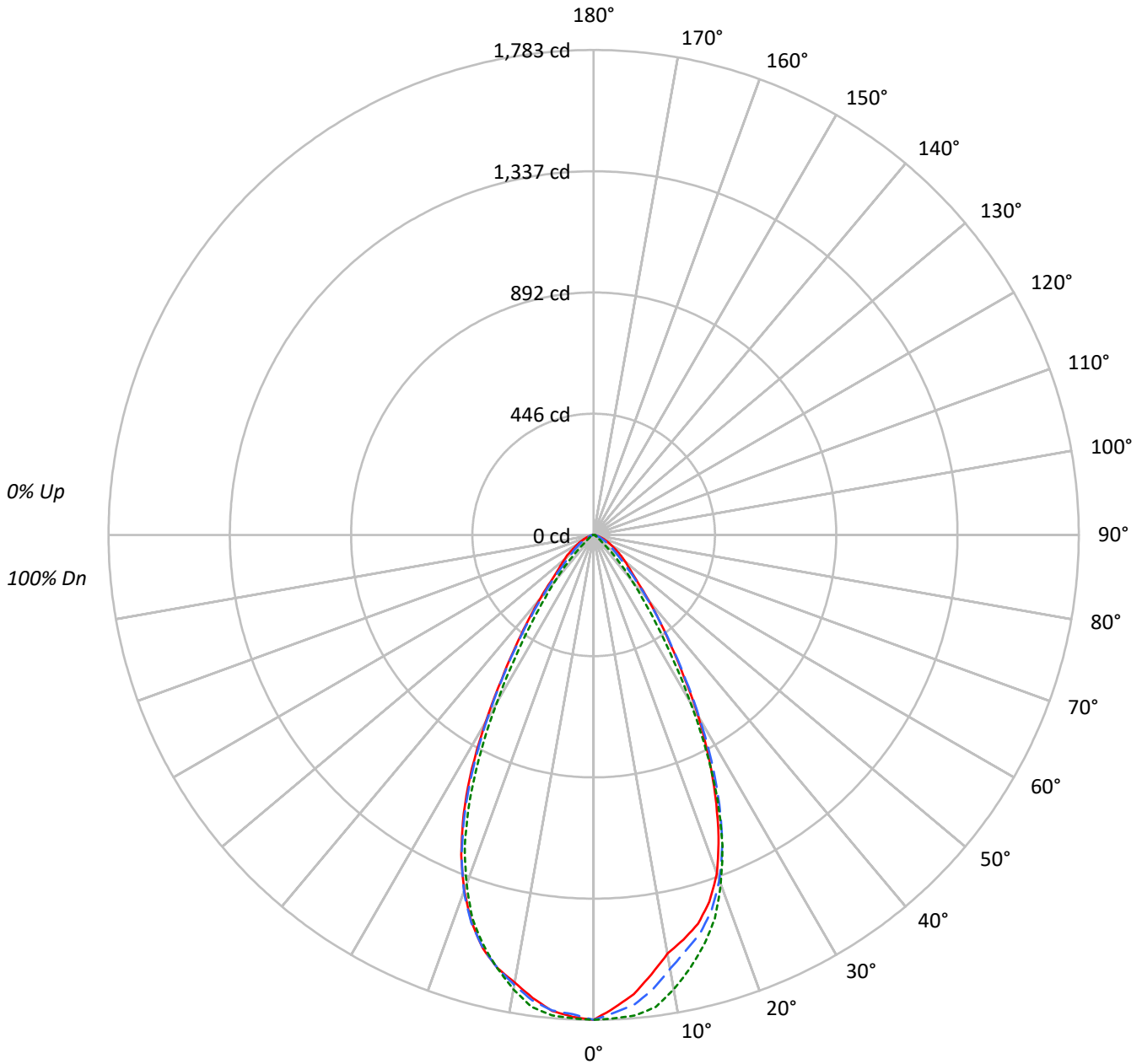
Lumens per Lamp: N/A
Luminaire Lumens: 1623.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V): NR
Input Current (A_{in}): 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°	219023	219023	219023
5°	208995	218676	216641
10°	194932	211586	208492
15°	188237	198743	200142
20°	173149	178549	181791
25°	143511	146127	153216
30°	109175	100975	112296
35°	73923	60500	74748
40°	50341	34657	48802
45°	34922	17461	33011
50°	28420	7110	26567
55°	23004	4434	20926
60°	18256	3391	16585
65°	14419	2791	12820
70°	10884	2478	9878
75°	7832	1946	7168
80°	5872	1981	4882
85°	3947	1973	3947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	10.1
10°-20°	430.7	26.5
20°-30°	494.1	30.4
30°-40°	300.2	18.5
40°-50°	128.6	7.9
50°-60°	61.7	3.8
60°-70°	30.0	1.8
70°-80°	11.1	0.7
80°-90°	2.6	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°	1088.7	67.1
0°-40°	1388.9	85.6
0°-60°	1579.3	97.3
0°-90°	1623.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1623.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1783	1783	1783	1783	1783	
5°	1695	1732	1773	1755	1757	157
15°	1480	1514	1563	1572	1574	412
25°	1059	1093	1078	1119	1130	480
35°	493	500	403	487	498	316
45°	201	179	100	161	190	163
55°	107	80	21	72	98	97
65°	50	33	10	30	44	50
75°	16	11	4	10	15	18
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°	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1740.2	1759.4	1758.1	1774.6	1778.7	1774.6	1763.6	1774.6	1773.2
5°	1694.7	1716.8	1731.9	1759.4	1773.2	1770.5	1755.3	1758.1	1756.7
7.5°	1628.7	1656.2	1682.3	1723.6	1749.8	1748.4	1726.4	1722.3	1716.8
10°	1562.6	1588.7	1619.0	1661.7	1696.1	1701.6	1679.6	1674.1	1671.3
12.5°	1524.0	1544.7	1565.3	1602.5	1632.8	1643.8	1631.4	1632.8	1631.4
15°	1480.0	1500.6	1514.4	1541.9	1562.6	1577.7	1572.2	1580.5	1573.6
17.5°	1413.9	1438.7	1444.2	1464.8	1480.0	1489.6	1495.1	1503.4	1492.4
20°	1324.4	1343.7	1350.6	1358.8	1365.7	1378.1	1394.6	1402.9	1390.5
22.5°	1199.1	1236.3	1234.9	1230.8	1237.7	1241.8	1268.0	1281.7	1272.1
25°	1058.7	1097.2	1093.1	1076.6	1078.0	1086.2	1119.3	1137.2	1130.3
27.5°	911.4	947.2	937.5	905.9	897.6	910.0	952.7	973.3	969.2
30°	769.6	793.0	777.8	721.4	711.8	726.9	782.0	802.6	791.6
32.5°	616.8	634.7	627.8	558.9	542.4	557.6	622.3	641.5	629.2
35°	492.9	509.4	499.7	418.5	403.4	419.9	487.4	509.4	498.4
37.5°	395.1	407.5	395.1	308.4	294.6	311.1	375.8	404.8	391.0
40°	313.9	323.5	307.0	227.2	216.1	224.4	285.0	313.9	304.3
42.5°	247.8	254.7	236.8	166.6	154.2	165.2	214.8	240.9	235.4
45°	201.0	201.0	179.0	115.6	100.5	111.5	161.1	188.6	190.0
47.5°	172.1	168.0	140.4	77.1	57.8	73.0	128.0	156.9	161.1
50°	148.7	143.2	115.6	56.4	37.2	52.3	106.0	134.9	139.0
52.5°	128.0	123.9	96.4	44.1	26.2	39.9	89.5	117.0	121.2
55°	107.4	104.6	79.8	34.4	20.7	30.3	71.6	95.0	97.7
57.5°	88.1	84.0	64.7	28.9	16.5	24.8	59.2	78.5	81.2
60°	74.3	70.2	52.3	23.4	13.8	19.3	48.2	64.7	67.5
62.5°	62.0	57.8	42.7	19.3	11.0	16.5	38.5	52.3	55.1
65°	49.6	46.8	33.0	15.1	9.6	12.4	30.3	41.3	44.1
67.5°	39.9	37.2	26.2	12.4	8.3	9.6	23.4	33.0	35.8
70°	30.3	27.5	19.3	9.6	6.9	8.3	17.9	24.8	27.5
72.5°	22.0	20.7	15.1	8.3	5.5	6.9	12.4	17.9	20.7
75°	16.5	15.1	11.0	5.5	4.1	5.5	9.6	13.8	15.1
77.5°	11.0	11.0	8.3	4.1	4.1	4.1	6.9	9.6	9.6
80°	8.3	6.9	5.5	2.8	2.8	2.8	4.1	6.9	6.9
82.5°	5.5	4.1	4.1	2.8	2.8	2.8	2.8	4.1	4.1
85°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	2.8	2.8
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)