

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: P857134

Luminaire Tested: **LD4C20D010 EU4209030 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P857134
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 EU4209030 4LBMDSWH
Description: 4 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

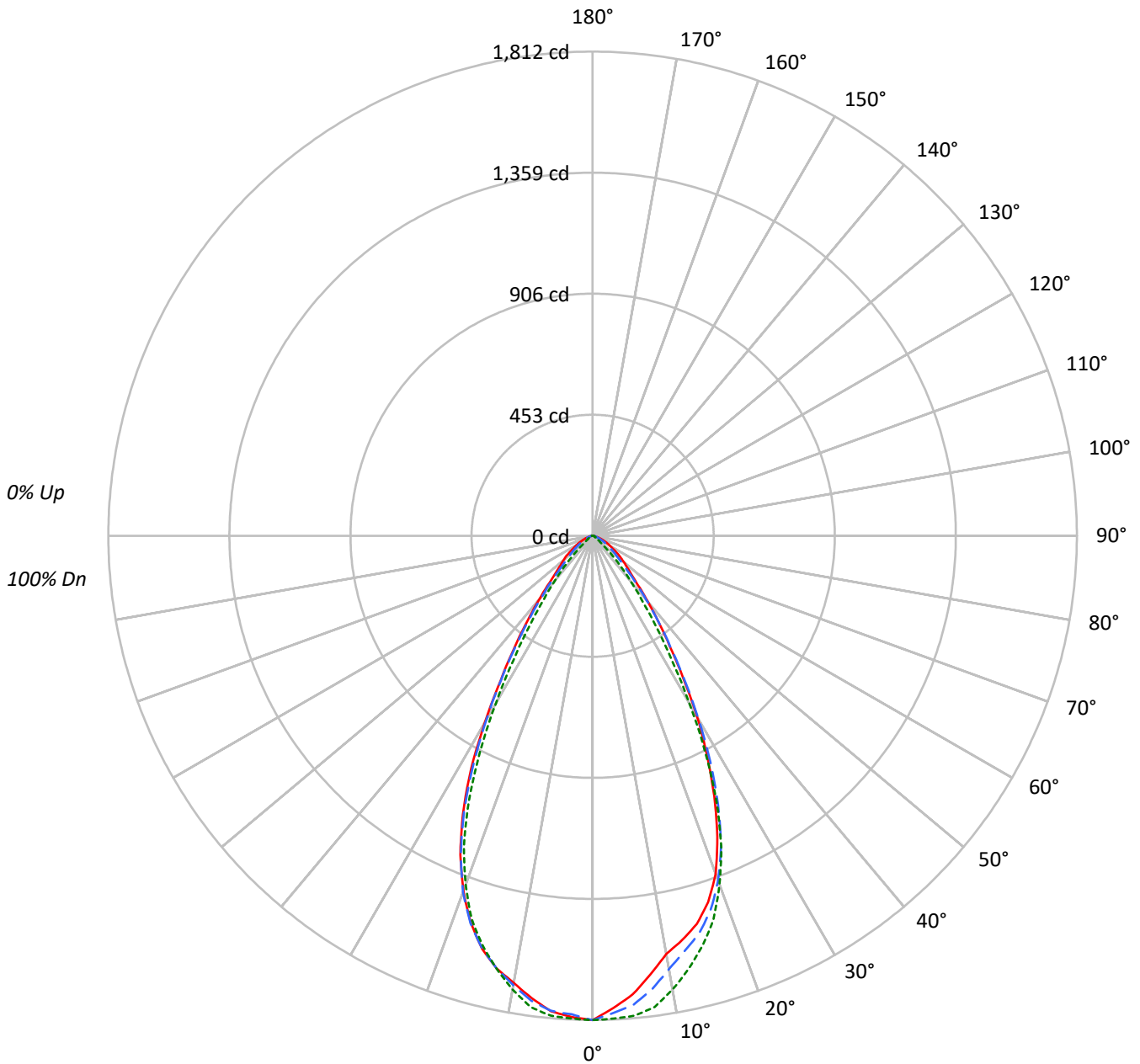
Lumens per Lamp: N/A
Luminaire Lumens: 1650.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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°	222672	222672	222672
5°	212473	222314	220242
10°	198176	215104	211960
15°	191366	202050	203474
20°	176026	181517	184811
25°	145897	148553	155765
30°	110990	102649	114168
35°	75153	61505	75993
40°	51175	35234	49604
45°	35495	17756	33549
50°	28898	7225	27025
55°	23389	4498	21290
60°	18575	3440	16855
65°	14651	2849	13023
70°	11063	2514	10058
75°	7974	1994	7310
80°	5943	1981	4952
85°	3947	1973	3947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	10.1
10°-20°	437.9	26.5
20°-30°	502.4	30.4
30°-40°	305.2	18.5
40°-50°	130.8	7.9
50°-60°	62.8	3.8
60°-70°	30.5	1.8
70°-80°	11.3	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°	1106.9	67.1
0°-40°	1412.0	85.6
0°-60°	1605.6	97.3
0°-90°	1650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1650.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1812	1812	1812	1812	1812	
5°	1723	1761	1803	1784	1786	160
15°	1505	1540	1589	1598	1600	419
25°	1076	1111	1096	1138	1149	488
35°	501	508	410	496	507	321
45°	204	182	102	164	193	166
55°	109	81	21	73	99	99
65°	50	34	10	31	45	51
75°	17	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°	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5
2.5°	1769.1	1788.7	1787.3	1804.1	1808.3	1804.1	1792.9	1804.1	1802.7
5°	1722.9	1745.3	1760.7	1788.7	1802.7	1799.9	1784.5	1787.3	1785.9
7.5°	1655.7	1683.7	1710.3	1752.3	1778.9	1777.5	1755.1	1750.9	1745.3
10°	1588.6	1615.2	1645.9	1689.3	1724.3	1729.9	1707.5	1701.9	1699.1
12.5°	1549.4	1570.4	1591.4	1629.2	1659.9	1671.1	1658.5	1659.9	1658.5
15°	1504.6	1525.6	1539.6	1567.6	1588.6	1604.0	1598.4	1606.8	1599.8
17.5°	1437.4	1462.6	1468.2	1489.2	1504.6	1514.4	1520.0	1528.4	1517.2
20°	1346.4	1366.0	1373.0	1381.4	1388.4	1401.0	1417.8	1426.2	1413.6
22.5°	1219.1	1256.9	1255.5	1251.3	1258.3	1262.5	1289.0	1303.0	1293.2
25°	1076.3	1115.5	1111.3	1094.5	1095.9	1104.3	1137.9	1156.1	1149.1
27.5°	926.5	962.9	953.1	920.9	912.5	925.1	968.5	989.5	985.3
30°	782.4	806.2	790.8	733.4	723.6	739.0	795.0	816.0	804.8
32.5°	627.0	645.2	638.2	568.2	551.4	566.8	632.6	652.2	639.6
35°	501.1	517.9	508.1	425.5	410.1	426.9	495.5	517.9	506.7
37.5°	401.7	414.3	401.7	313.5	299.5	316.3	382.1	411.5	397.5
40°	319.1	328.9	312.1	230.9	219.7	228.1	289.7	319.1	309.3
42.5°	251.9	258.9	240.7	169.4	156.8	168.0	218.3	244.9	239.3
45°	204.3	204.3	181.9	117.6	102.2	113.4	163.8	191.7	193.1
47.5°	175.0	170.8	142.8	78.4	58.8	74.2	130.2	159.6	163.8
50°	151.2	145.6	117.6	57.4	37.8	53.2	107.8	137.2	141.4
52.5°	130.2	126.0	98.0	44.8	26.6	40.6	91.0	119.0	123.2
55°	109.2	106.4	81.2	35.0	21.0	30.8	72.8	96.6	99.4
57.5°	89.6	85.4	65.8	29.4	16.8	25.2	60.2	79.8	82.6
60°	75.6	71.4	53.2	23.8	14.0	19.6	49.0	65.8	68.6
62.5°	63.0	58.8	43.4	19.6	11.2	16.8	39.2	53.2	56.0
65°	50.4	47.6	33.6	15.4	9.8	12.6	30.8	42.0	44.8
67.5°	40.6	37.8	26.6	12.6	8.4	9.8	23.8	33.6	36.4
70°	30.8	28.0	19.6	9.8	7.0	8.4	18.2	25.2	28.0
72.5°	22.4	21.0	15.4	8.4	5.6	7.0	12.6	18.2	21.0
75°	16.8	15.4	11.2	5.6	4.2	5.6	9.8	14.0	15.4
77.5°	11.2	11.2	8.4	4.2	4.2	4.2	7.0	9.8	9.8
80°	8.4	7.0	5.6	2.8	2.8	2.8	4.2	7.0	7.0
82.5°	5.6	4.2	4.2	2.8	2.8	2.8	2.8	4.2	4.2
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)