

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: P857504

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857504
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: LD4C30D010 EU4309027 4LBMDSWGPH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

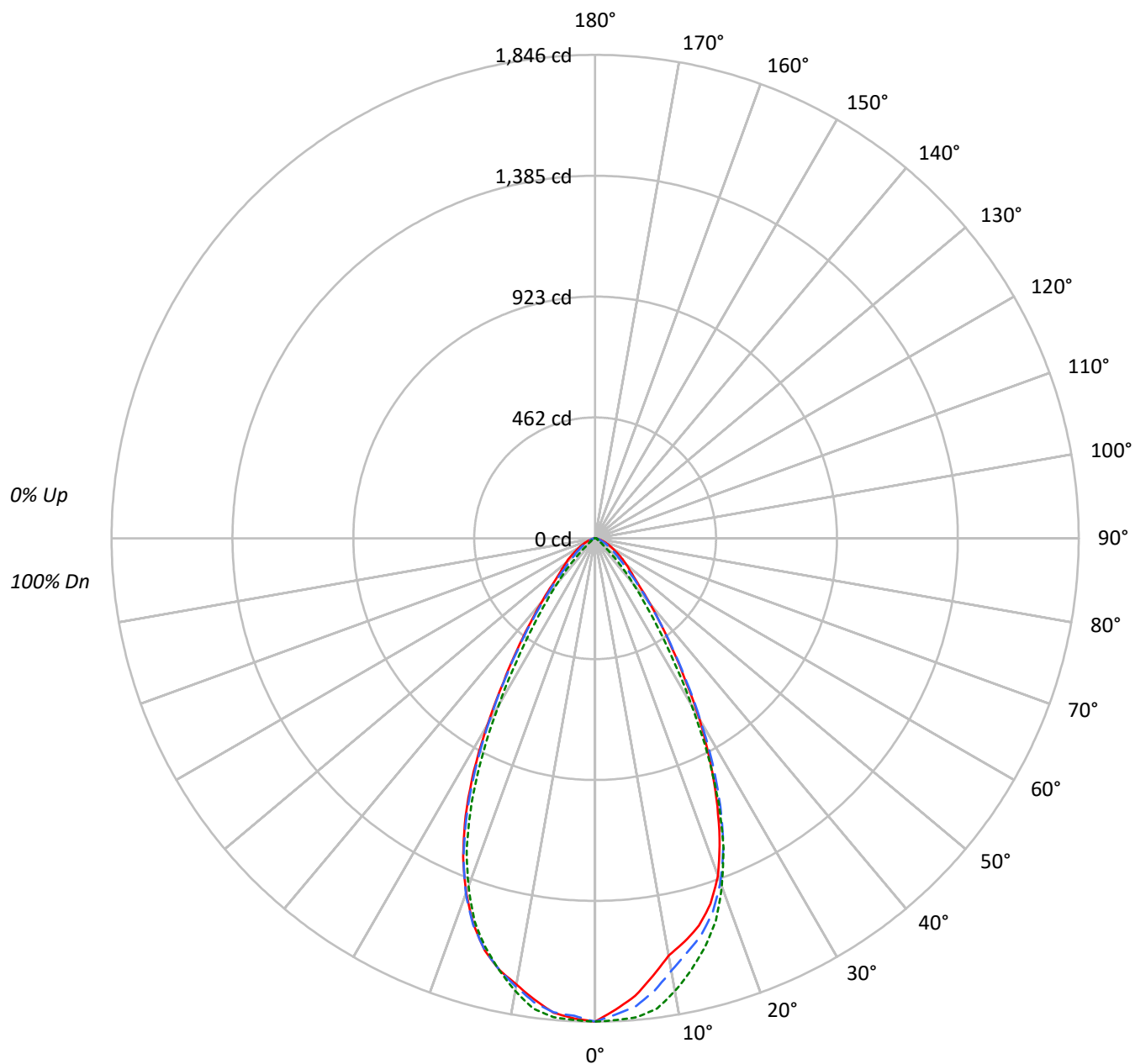
Lumens per Lamp: N/A
Luminaire Lumens: 1680.0 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85
4	96	88	82	77	94	86	81	77	84	80	76		82	78	75		80
5	91	82	75	71	89	81	75	71	79	74	70		77	73	69		76
6	86	76	70	66	84	76	70	65	74	69	65		73	68	64		71
7	81	72	65	61	80	71	65	61	70	64	60		68	64	60		67
8	77	67	61	57	76	67	61	57	66	60	56		65	60	56		64
9	74	63	57	53	72	63	57	53	62	57	53		61	56	53		60
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	226726	226726	226726
5°	216345	226359	224250
10°	201769	219021	215815
15°	194838	205713	207163
20°	179229	184824	188171
25°	148553	151251	158598
30°	113005	104522	116239
35°	76518	62615	77373
40°	52105	35876	50502
45°	36156	18069	34175
50°	29414	7358	27503
55°	23818	4584	21676
60°	18919	3514	17150
65°	14913	2907	13256
70°	11279	2550	10237
75°	8117	2041	7452
80°	6084	2052	5023
85°	4088	1973	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	10.1
10°-20°	445.8	26.5
20°-30°	511.5	30.4
30°-40°	310.7	18.5
40°-50°	133.2	7.9
50°-60°	63.9	3.8
60°-70°	31.1	1.8
70°-80°	11.5	0.7
80°-90°	2.7	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°	1127.0	67.1
0°-40°	1437.7	85.6
0°-60°	1634.8	97.3
0°-90°	1680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1680.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1846	1846	1846	1846	1846	
5°	1754	1793	1836	1817	1818	163
15°	1532	1568	1617	1627	1629	427
25°	1096	1132	1116	1159	1170	497
35°	510	517	418	504	516	327
45°	208	185	104	167	197	169
55°	111	83	21	74	101	100
65°	51	34	10	31	46	52
75°	17	11	4	10	16	19
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°	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5	1845.5
2.5°	1801.3	1821.2	1819.8	1836.9	1841.2	1836.9	1825.5	1836.9	1835.5
5°	1754.3	1777.1	1792.7	1821.2	1835.5	1832.6	1817.0	1819.8	1818.4
7.5°	1685.8	1714.3	1741.4	1784.2	1811.3	1809.8	1787.0	1782.8	1777.1
10°	1617.4	1644.5	1675.9	1720.1	1755.7	1761.4	1738.6	1732.9	1730.0
12.5°	1577.5	1598.9	1620.3	1658.8	1690.1	1701.5	1688.7	1690.1	1688.7
15°	1531.9	1553.3	1567.6	1596.1	1617.4	1633.1	1627.4	1636.0	1628.8
17.5°	1463.5	1489.2	1494.9	1516.3	1531.9	1541.9	1547.6	1556.2	1544.8
20°	1370.9	1390.9	1398.0	1406.5	1413.7	1426.5	1443.6	1452.1	1439.3
22.5°	1241.2	1279.7	1278.3	1274.0	1281.1	1285.4	1312.5	1326.7	1316.8
25°	1095.9	1135.8	1131.5	1114.4	1115.8	1124.4	1158.6	1177.1	1170.0
27.5°	943.4	980.4	970.5	937.7	929.1	942.0	986.1	1007.5	1003.2
30°	796.6	820.8	805.2	746.7	736.8	752.4	809.4	830.8	819.4
32.5°	638.4	657.0	649.8	578.6	561.5	577.2	644.1	664.1	651.3
35°	510.2	527.3	517.3	433.2	417.5	434.6	504.5	527.3	515.9
37.5°	409.0	421.8	409.0	319.2	305.0	322.1	389.0	419.0	404.7
40°	324.9	334.9	317.8	235.1	223.7	232.3	295.0	324.9	314.9
42.5°	256.5	263.6	245.1	172.4	159.6	171.0	222.3	249.4	243.7
45°	208.1	208.1	185.3	119.7	104.0	115.4	166.7	195.2	196.7
47.5°	178.1	173.9	145.4	79.8	59.9	75.5	132.5	162.5	166.7
50°	153.9	148.2	119.7	58.4	38.5	54.2	109.7	139.7	143.9
52.5°	132.5	128.3	99.8	45.6	27.1	41.3	92.6	121.1	125.4
55°	111.2	108.3	82.7	35.6	21.4	31.4	74.1	98.3	101.2
57.5°	91.2	86.9	67.0	29.9	17.1	25.7	61.3	81.2	84.1
60°	77.0	72.7	54.2	24.2	14.3	20.0	49.9	67.0	69.8
62.5°	64.1	59.9	44.2	20.0	11.4	17.1	39.9	54.2	57.0
65°	51.3	48.5	34.2	15.7	10.0	12.8	31.4	42.8	45.6
67.5°	41.3	38.5	27.1	12.8	8.6	10.0	24.2	34.2	37.1
70°	31.4	28.5	20.0	10.0	7.1	8.6	18.5	25.7	28.5
72.5°	22.8	21.4	15.7	8.6	5.7	7.1	12.8	18.5	21.4
75°	17.1	15.7	11.4	5.7	4.3	5.7	10.0	14.3	15.7
77.5°	11.4	11.4	8.6	4.3	4.3	4.3	7.1	10.0	10.0
80°	8.6	7.1	5.7	2.9	2.9	2.9	4.3	7.1	7.1
82.5°	5.7	4.3	4.3	2.9	2.9	2.9	2.9	4.3	4.3
85°	2.9	2.9	2.9	1.4	1.4	1.4	1.4	2.9	2.9
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)