

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: P857588

Luminaire Tested: **LD4C30D010 EU4309050 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857588
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 EU4309050 4LBMDSWGPH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

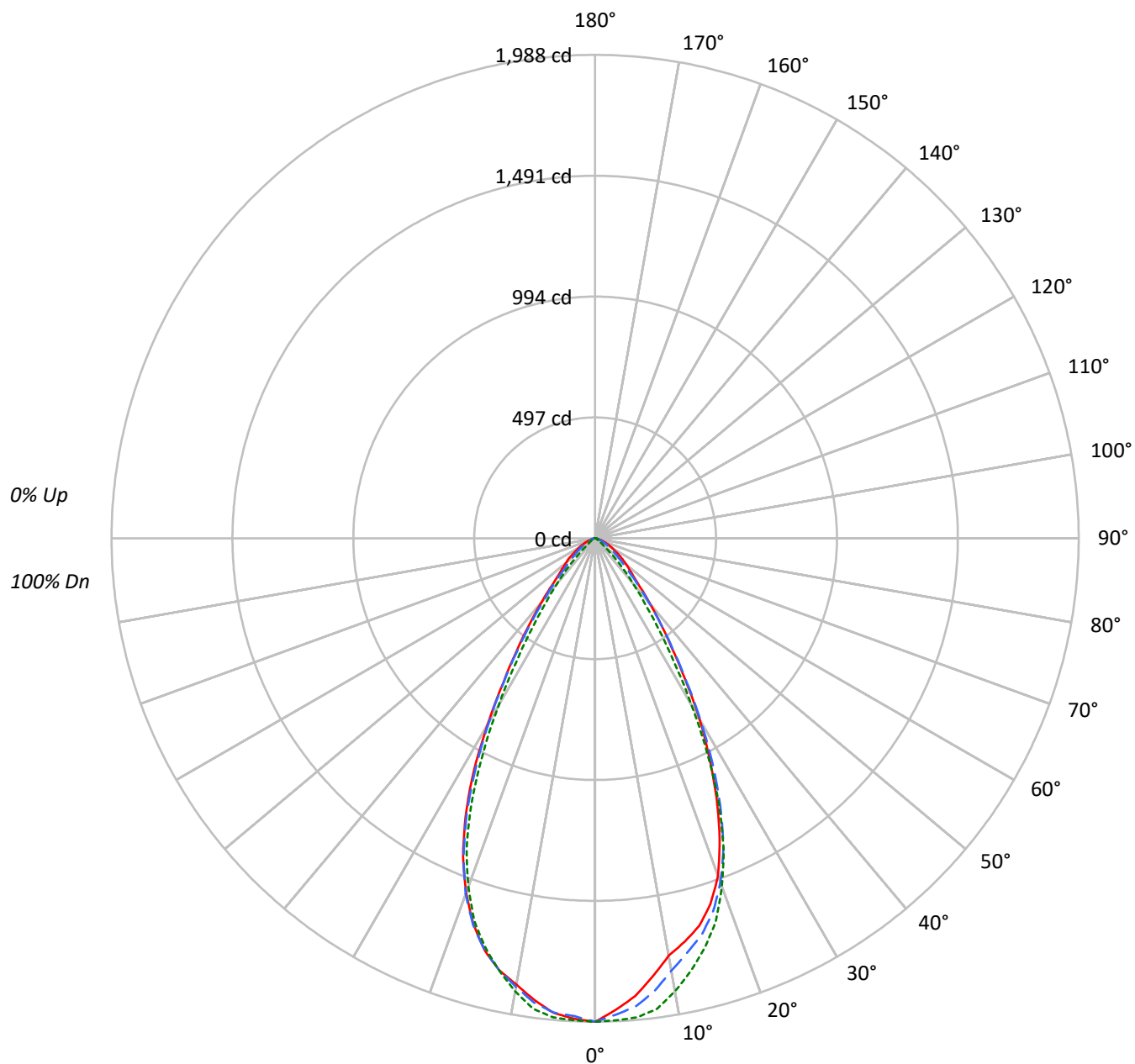
Lumens per Lamp: N/A
Luminaire Lumens: 1810.0 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	244270	244270	244270
5°	233080	243871	241602
10°	217387	235962	232519
15°	209923	221637	223201
20°	193100	199127	202735
25°	160048	162963	170866
30°	121758	112608	125233
35°	82427	67474	83357
40°	56147	38650	54415
45°	38953	19476	36816
50°	31689	7932	29644
55°	25660	4926	23347
60°	20369	3784	18477
65°	16075	3110	14273
70°	12141	2766	11027
75°	8734	2183	8022
80°	6509	2193	5448
85°	4370	2114	4370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	10.1
10°-20°	480.3	26.5
20°-30°	551.1	30.4
30°-40°	334.8	18.5
40°-50°	143.5	7.9
50°-60°	68.8	3.8
60°-70°	33.5	1.8
70°-80°	12.4	0.7
80°-90°	2.9	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°	1214.2	67.1
0°-40°	1549.0	85.6
0°-60°	1761.3	97.3
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1988	1988	1988	1988	1988	
5°	1890	1932	1978	1958	1959	176
15°	1650	1689	1743	1753	1755	460
25°	1181	1219	1202	1248	1260	536
35°	550	557	450	544	556	352
45°	224	200	112	180	212	182
55°	120	89	23	80	109	108
65°	55	37	11	34	49	56
75°	18	12	5	11	17	20
85°	3	3	2	2	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°	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3	1988.3
2.5°	1940.7	1962.2	1960.6	1979.0	1983.7	1979.0	1966.8	1979.0	1977.5
5°	1890.0	1914.6	1931.5	1962.2	1977.5	1974.4	1957.6	1960.6	1959.1
7.5°	1816.3	1847.0	1876.2	1922.2	1951.4	1949.9	1925.3	1920.7	1914.6
10°	1742.6	1771.8	1805.6	1853.1	1891.5	1897.7	1873.1	1867.0	1863.9
12.5°	1699.6	1722.6	1745.7	1787.1	1820.9	1833.2	1819.4	1820.9	1819.4
15°	1650.5	1673.5	1688.9	1719.6	1742.6	1759.5	1753.4	1762.6	1754.9
17.5°	1576.8	1604.4	1610.6	1633.6	1650.5	1661.2	1667.4	1676.6	1664.3
20°	1477.0	1498.5	1506.2	1515.4	1523.1	1536.9	1555.3	1564.5	1550.7
22.5°	1337.3	1378.7	1377.2	1372.6	1380.3	1384.9	1414.0	1429.4	1418.6
25°	1180.7	1223.7	1219.1	1200.6	1202.2	1211.4	1248.2	1268.2	1260.5
27.5°	1016.4	1056.3	1045.6	1010.3	1001.0	1014.9	1062.5	1085.5	1080.9
30°	858.3	884.4	867.5	804.5	793.8	810.7	872.1	895.1	882.8
32.5°	687.8	707.8	700.1	623.3	604.9	621.8	694.0	715.5	701.6
35°	549.6	568.1	557.3	466.7	449.9	468.3	543.5	568.1	555.8
37.5°	440.6	454.5	440.6	343.9	328.6	347.0	419.1	451.4	436.0
40°	350.1	360.8	342.4	253.3	241.0	250.3	317.8	350.1	339.3
42.5°	276.4	284.0	264.1	185.8	172.0	184.2	239.5	268.7	262.5
45°	224.2	224.2	199.6	129.0	112.1	124.4	179.6	210.3	211.9
47.5°	191.9	187.3	156.6	86.0	64.5	81.4	142.8	175.0	179.6
50°	165.8	159.7	129.0	62.9	41.5	58.3	118.2	150.5	155.1
52.5°	142.8	138.2	107.5	49.1	29.2	44.5	99.8	130.5	135.1
55°	119.8	116.7	89.0	38.4	23.0	33.8	79.8	105.9	109.0
57.5°	98.3	93.7	72.2	32.2	18.4	27.6	66.0	87.5	90.6
60°	82.9	78.3	58.3	26.1	15.4	21.5	53.7	72.2	75.2
62.5°	69.1	64.5	47.6	21.5	12.3	18.4	43.0	58.3	61.4
65°	55.3	52.2	36.8	16.9	10.7	13.8	33.8	46.1	49.1
67.5°	44.5	41.5	29.2	13.8	9.2	10.7	26.1	36.8	39.9
70°	33.8	30.7	21.5	10.7	7.7	9.2	20.0	27.6	30.7
72.5°	24.6	23.0	16.9	9.2	6.1	7.7	13.8	20.0	23.0
75°	18.4	16.9	12.3	6.1	4.6	6.1	10.7	15.4	16.9
77.5°	12.3	12.3	9.2	4.6	4.6	4.6	7.7	10.7	10.7
80°	9.2	7.7	6.1	3.1	3.1	3.1	4.6	7.7	7.7
82.5°	6.1	4.6	4.6	3.1	3.1	3.1	3.1	4.6	4.6
85°	3.1	3.1	3.1	1.5	1.5	1.5	1.5	3.1	3.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)