

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: P857566

Luminaire Tested: **LD4C30D010 EU4309040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857566
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 EU4309040 4LBMDDWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

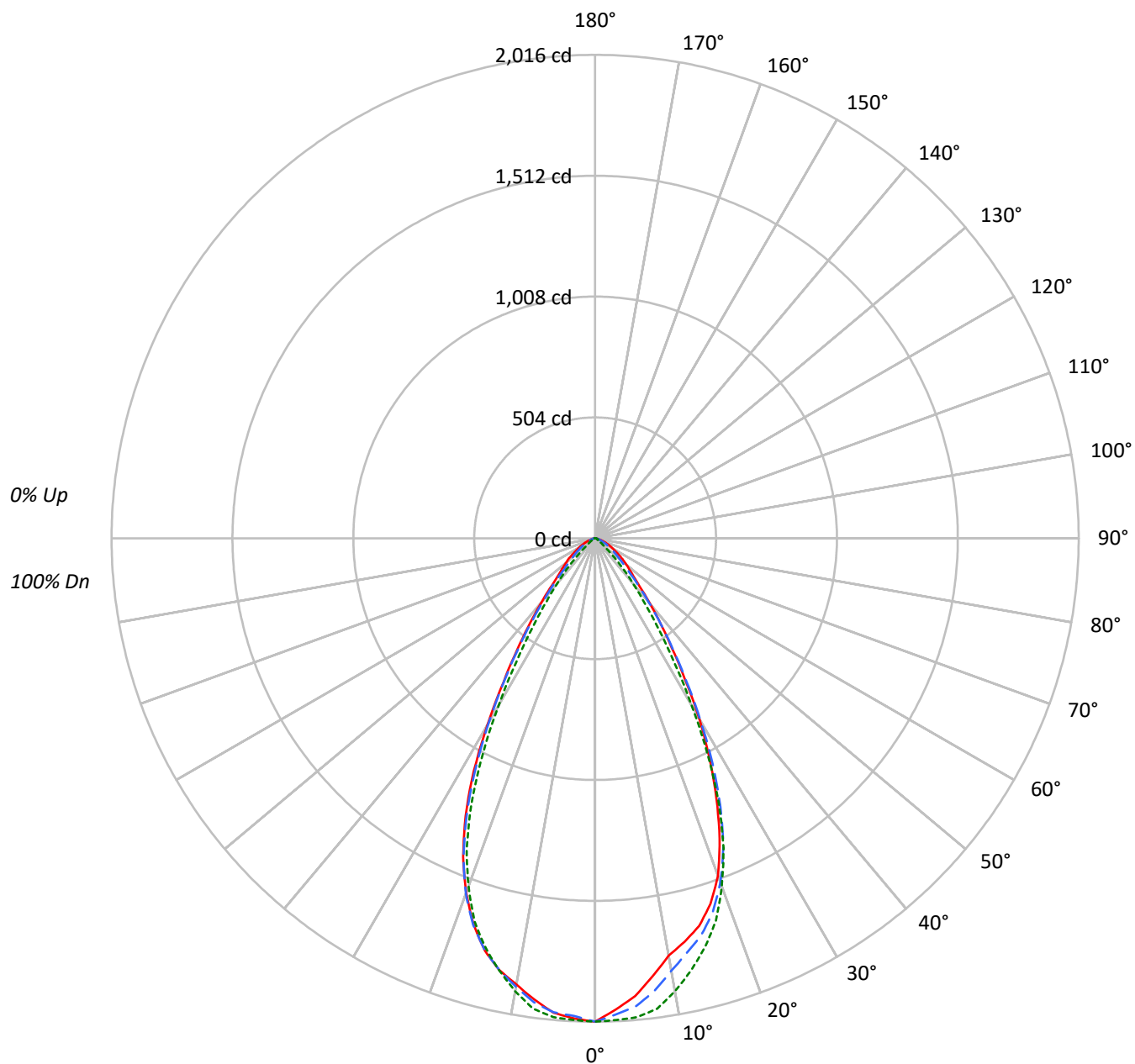
Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857566

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857566

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDDWLI

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	30	10	50	30	10
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°	247636	247636	247636
5°	236299	247237	244931
10°	220394	239231	235725
15°	212822	224702	226279
20°	195767	201872	205533
25°	162258	165213	173224
30°	123431	114154	126964
35°	83567	68404	84512
40°	56917	39195	55169
45°	39491	19737	37320
50°	32128	8027	30045
55°	26002	4991	23668
60°	20664	3833	18747
65°	16279	3169	14477
70°	12285	2802	11171
75°	8876	2231	8117
80°	6580	2193	5518
85°	4370	2255	4370



TEST NUMBER: P857566

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	10.1
10°-20°	486.9	26.5
20°-30°	558.7	30.4
30°-40°	339.4	18.5
40°-50°	145.5	7.9
50°-60°	69.8	3.8
60°-70°	33.9	1.8
70°-80°	12.6	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°	1231.0	67.1
0°-40°	1570.4	85.6
0°-60°	1785.6	97.3
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2016	2016	2016	2016	2016	
5°	1916	1958	2005	1985	1986	178
15°	1673	1712	1767	1778	1779	466
25°	1197	1236	1219	1266	1278	543
35°	557	565	456	551	564	357
45°	227	202	114	182	215	185
55°	121	90	23	81	110	110
65°	56	37	11	34	50	57
75°	19	12	5	11	17	20
85°	3	3	2	2	3	4
90°	0	0	0	0	0	



TEST NUMBER: P857566

CATALOG NUMBER: LD4C30D010 EU4309040 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7	2015.7
2.5°	1967.5	1989.3	1987.7	2006.4	2011.1	2006.4	1993.9	2006.4	2004.8
5°	1916.1	1941.0	1958.1	1989.3	2004.8	2001.7	1984.6	1987.7	1986.1
7.5°	1841.4	1872.5	1902.1	1948.8	1978.4	1976.8	1951.9	1947.2	1941.0
10°	1766.7	1796.2	1830.5	1878.7	1917.7	1923.9	1899.0	1892.8	1889.6
12.5°	1723.1	1746.4	1769.8	1811.8	1846.1	1858.5	1844.5	1846.1	1844.5
15°	1673.3	1696.6	1712.2	1743.3	1766.7	1783.8	1777.6	1786.9	1779.1
17.5°	1598.6	1626.6	1632.8	1656.2	1673.3	1684.2	1690.4	1699.7	1687.3
20°	1497.4	1519.2	1527.0	1536.3	1544.1	1558.1	1576.8	1586.1	1572.1
22.5°	1355.7	1397.8	1396.2	1391.5	1399.3	1404.0	1433.6	1449.1	1438.2
25°	1197.0	1240.6	1235.9	1217.2	1218.8	1228.1	1265.5	1285.7	1277.9
27.5°	1030.4	1070.9	1060.0	1024.2	1014.9	1028.9	1077.1	1100.5	1095.8
30°	870.1	896.6	879.4	815.6	804.7	821.9	884.1	907.5	895.0
32.5°	697.3	717.6	709.8	632.0	613.3	630.4	703.6	725.3	711.3
35°	557.2	575.9	565.0	473.2	456.1	474.7	551.0	575.9	563.5
37.5°	446.7	460.7	446.7	348.7	333.1	351.8	424.9	457.6	442.1
40°	354.9	365.8	347.1	256.8	244.4	253.7	322.2	354.9	344.0
42.5°	280.2	288.0	267.7	188.3	174.3	186.8	242.8	272.4	266.2
45°	227.3	227.3	202.4	130.7	113.6	126.1	182.1	213.2	214.8
47.5°	194.6	189.9	158.8	87.2	65.4	82.5	144.8	177.4	182.1
50°	168.1	161.9	130.7	63.8	42.0	59.1	119.9	152.5	157.2
52.5°	144.8	140.1	109.0	49.8	29.6	45.1	101.2	132.3	137.0
55°	121.4	118.3	90.3	38.9	23.3	34.2	80.9	107.4	110.5
57.5°	99.6	94.9	73.2	32.7	18.7	28.0	66.9	88.7	91.8
60°	84.1	79.4	59.1	26.5	15.6	21.8	54.5	73.2	76.3
62.5°	70.0	65.4	48.3	21.8	12.5	18.7	43.6	59.1	62.3
65°	56.0	52.9	37.4	17.1	10.9	14.0	34.2	46.7	49.8
67.5°	45.1	42.0	29.6	14.0	9.3	10.9	26.5	37.4	40.5
70°	34.2	31.1	21.8	10.9	7.8	9.3	20.2	28.0	31.1
72.5°	24.9	23.3	17.1	9.3	6.2	7.8	14.0	20.2	23.3
75°	18.7	17.1	12.5	6.2	4.7	6.2	10.9	15.6	17.1
77.5°	12.5	12.5	9.3	4.7	4.7	4.7	7.8	10.9	10.9
80°	9.3	7.8	6.2	3.1	3.1	3.1	4.7	7.8	7.8
82.5°	6.2	4.7	4.7	3.1	3.1	3.1	3.1	4.7	4.7
85°	3.1	3.1	3.1	1.6	1.6	1.6	1.6	3.1	3.1
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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)