

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: P857545

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857545
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 EU4309035 4LBMDDWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

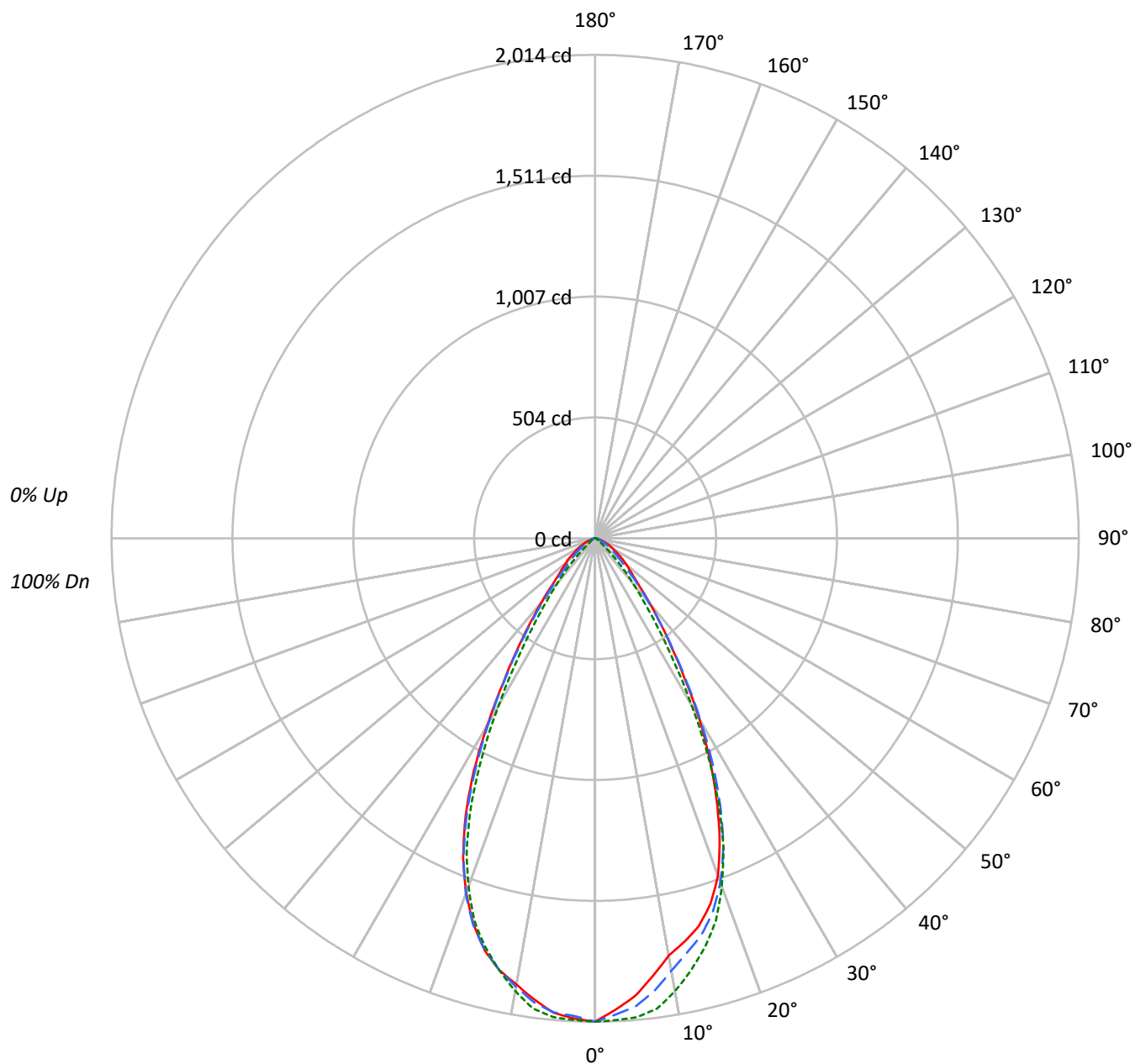
Lumens per Lamp: N/A
Luminaire Lumens: 1833.0 lumens
Efficiency: N/A
Efficacy: 58.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	247365	247365	247365
5°	236040	246966	244672
10°	220144	238969	235476
15°	212594	224447	226037
20°	195558	201650	205311
25°	162082	165023	173034
30°	123304	114040	126822
35°	83477	68329	84422
40°	56853	39147	55104
45°	39439	19720	37285
50°	32090	8027	30007
55°	25981	4991	23646
60°	20639	3808	18723
65°	16279	3169	14477
70°	12285	2802	11171
75°	8876	2231	8117
80°	6580	2193	5518
85°	4370	2255	4370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	10.1
10°-20°	486.4	26.5
20°-30°	558.1	30.4
30°-40°	339.0	18.5
40°-50°	145.3	7.9
50°-60°	69.7	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°	1229.6	67.1
0°-40°	1568.6	85.6
0°-60°	1783.6	97.3
0°-90°	1833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1833.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2014	2014	2014	2014	2014	
5°	1914	1956	2003	1982	1984	178
15°	1672	1710	1765	1776	1777	465
25°	1196	1234	1217	1264	1276	542
35°	557	564	456	550	563	357
45°	227	202	114	182	215	184
55°	121	90	23	81	110	109
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2013.5	2013.5	2013.5	2013.5	2013.5	2013.5	2013.5	2013.5	2013.5
2.5°	1965.3	1987.1	1985.5	2004.2	2008.9	2004.2	1991.8	2004.2	2002.6
5°	1914.0	1938.9	1956.0	1987.1	2002.6	1999.5	1982.4	1985.5	1984.0
7.5°	1839.4	1870.5	1900.0	1946.7	1976.2	1974.7	1949.8	1945.1	1938.9
10°	1764.7	1794.3	1828.5	1876.7	1915.6	1921.8	1896.9	1890.7	1887.6
12.5°	1721.2	1744.5	1767.9	1809.8	1844.0	1856.5	1842.5	1844.0	1842.5
15°	1671.5	1694.8	1710.3	1741.4	1764.7	1781.9	1775.6	1785.0	1777.2
17.5°	1596.8	1624.8	1631.0	1654.4	1671.5	1682.3	1688.6	1697.9	1685.5
20°	1495.8	1517.5	1525.3	1534.6	1542.4	1556.4	1575.1	1584.4	1570.4
22.5°	1354.3	1396.3	1394.7	1390.0	1397.8	1402.5	1432.0	1447.6	1436.7
25°	1195.7	1239.2	1234.5	1215.9	1217.4	1226.8	1264.1	1284.3	1276.5
27.5°	1029.3	1069.7	1058.8	1023.1	1013.8	1027.8	1076.0	1099.3	1094.6
30°	869.2	895.6	878.5	814.7	803.9	821.0	883.2	906.5	894.0
32.5°	696.6	716.8	709.0	631.3	612.6	629.7	702.8	724.6	710.6
35°	556.6	575.3	564.4	472.7	455.6	474.2	550.4	575.3	562.9
37.5°	446.2	460.2	446.2	348.3	332.7	351.4	424.5	457.1	441.6
40°	354.5	365.4	346.7	256.5	244.1	253.4	321.9	354.5	343.6
42.5°	279.9	287.6	267.4	188.1	174.1	186.6	242.6	272.1	265.9
45°	227.0	227.0	202.1	130.6	113.5	125.9	181.9	213.0	214.6
47.5°	194.4	189.7	158.6	87.1	65.3	82.4	144.6	177.3	181.9
50°	167.9	161.7	130.6	63.7	42.0	59.1	119.7	152.4	157.0
52.5°	144.6	139.9	108.8	49.8	29.5	45.1	101.1	132.2	136.8
55°	121.3	118.2	90.2	38.9	23.3	34.2	80.9	107.3	110.4
57.5°	99.5	94.8	73.1	32.7	18.7	28.0	66.9	88.6	91.7
60°	84.0	79.3	59.1	26.4	15.5	21.8	54.4	73.1	76.2
62.5°	70.0	65.3	48.2	21.8	12.4	18.7	43.5	59.1	62.2
65°	56.0	52.9	37.3	17.1	10.9	14.0	34.2	46.6	49.8
67.5°	45.1	42.0	29.5	14.0	9.3	10.9	26.4	37.3	40.4
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	12.4	6.2	4.7	6.2	10.9	15.5	17.1
77.5°	12.4	12.4	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)