

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: P857524

Luminaire Tested: **LD4C30D010 EU4309030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857524
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 EU4309030 4LBMDDWLI
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

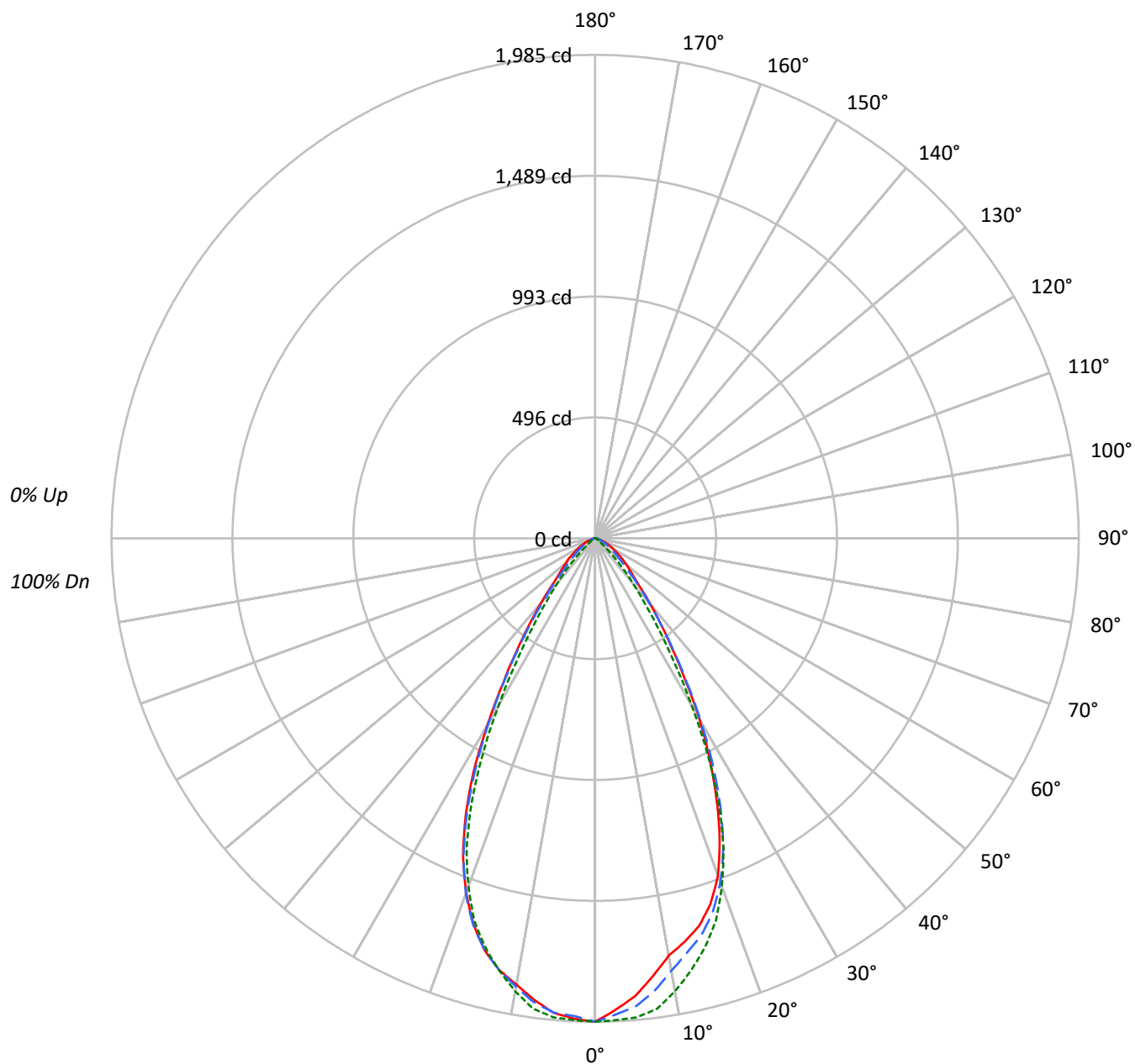
Lumens per Lamp: N/A
Luminaire Lumens: 1807.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	243864	243864	243864
5°	232698	243464	241195
10°	217025	235575	232132
15°	209566	221268	222832
20°	192773	198787	202395
25°	159777	162692	170581
30°	121545	112423	125034
35°	82292	67354	83222
40°	56051	38586	54319
45°	38883	19442	36746
50°	31631	7913	29586
55°	25617	4926	23304
60°	20345	3759	18453
65°	16046	3110	14244
70°	12105	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°	182.5	10.1
10°-20°	479.5	26.5
20°-30°	550.2	30.4
30°-40°	334.2	18.5
40°-50°	143.2	7.9
50°-60°	68.7	3.8
60°-70°	33.4	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°	1212.2	67.1
0°-40°	1546.4	85.6
0°-60°	1758.3	97.3
0°-90°	1807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1985	1985	1985	1985	1985	
5°	1887	1928	1974	1954	1956	175
15°	1648	1686	1740	1750	1752	459
25°	1179	1217	1200	1246	1258	535
35°	549	556	449	543	555	352
45°	224	199	112	179	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°	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0	1985.0
2.5°	1937.4	1958.9	1957.4	1975.8	1980.4	1975.8	1963.5	1975.8	1974.2
5°	1886.9	1911.4	1928.3	1958.9	1974.2	1971.2	1954.3	1957.4	1955.8
7.5°	1813.3	1843.9	1873.1	1919.1	1948.2	1946.6	1922.1	1917.5	1911.4
10°	1739.7	1768.8	1802.6	1850.1	1888.4	1894.5	1870.0	1863.9	1860.8
12.5°	1696.8	1719.8	1742.8	1784.2	1817.9	1830.2	1816.4	1817.9	1816.4
15°	1647.7	1670.7	1686.1	1716.7	1739.7	1756.6	1750.4	1759.6	1752.0
17.5°	1574.2	1601.8	1607.9	1630.9	1647.7	1658.5	1664.6	1673.8	1661.5
20°	1474.5	1496.0	1503.7	1512.9	1520.5	1534.3	1552.7	1561.9	1548.1
22.5°	1335.1	1376.4	1374.9	1370.3	1378.0	1382.6	1411.7	1427.0	1416.3
25°	1178.7	1221.6	1217.0	1198.6	1200.2	1209.4	1246.2	1266.1	1258.4
27.5°	1014.7	1054.6	1043.8	1008.6	999.4	1013.2	1060.7	1083.7	1079.1
30°	856.8	882.9	866.0	803.2	792.5	809.3	870.6	893.6	881.4
32.5°	686.7	706.6	699.0	622.3	603.9	620.8	692.8	714.3	700.5
35°	548.7	567.1	556.4	466.0	449.1	467.5	542.6	567.1	554.9
37.5°	439.9	453.7	439.9	343.3	328.0	346.4	418.5	450.6	435.3
40°	349.5	360.2	341.8	252.9	240.6	249.8	317.3	349.5	338.7
42.5°	275.9	283.6	263.6	185.5	171.7	183.9	239.1	268.2	262.1
45°	223.8	223.8	199.3	128.8	111.9	124.2	179.3	210.0	211.5
47.5°	191.6	187.0	156.3	85.8	64.4	81.2	142.5	174.7	179.3
50°	165.5	159.4	128.8	62.8	41.4	58.2	118.0	150.2	154.8
52.5°	142.5	138.0	107.3	49.0	29.1	44.5	99.6	130.3	134.9
55°	119.6	116.5	88.9	38.3	23.0	33.7	79.7	105.8	108.8
57.5°	98.1	93.5	72.0	32.2	18.4	27.6	65.9	87.4	90.4
60°	82.8	78.2	58.2	26.1	15.3	21.5	53.6	72.0	75.1
62.5°	69.0	64.4	47.5	21.5	12.3	18.4	42.9	58.2	61.3
65°	55.2	52.1	36.8	16.9	10.7	13.8	33.7	46.0	49.0
67.5°	44.5	41.4	29.1	13.8	9.2	10.7	26.1	36.8	39.9
70°	33.7	30.7	21.5	10.7	7.7	9.2	19.9	27.6	30.7
72.5°	24.5	23.0	16.9	9.2	6.1	7.7	13.8	19.9	23.0
75°	18.4	16.9	12.3	6.1	4.6	6.1	10.7	15.3	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)