

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: P857507

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857507
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 4LBMDSWMW
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

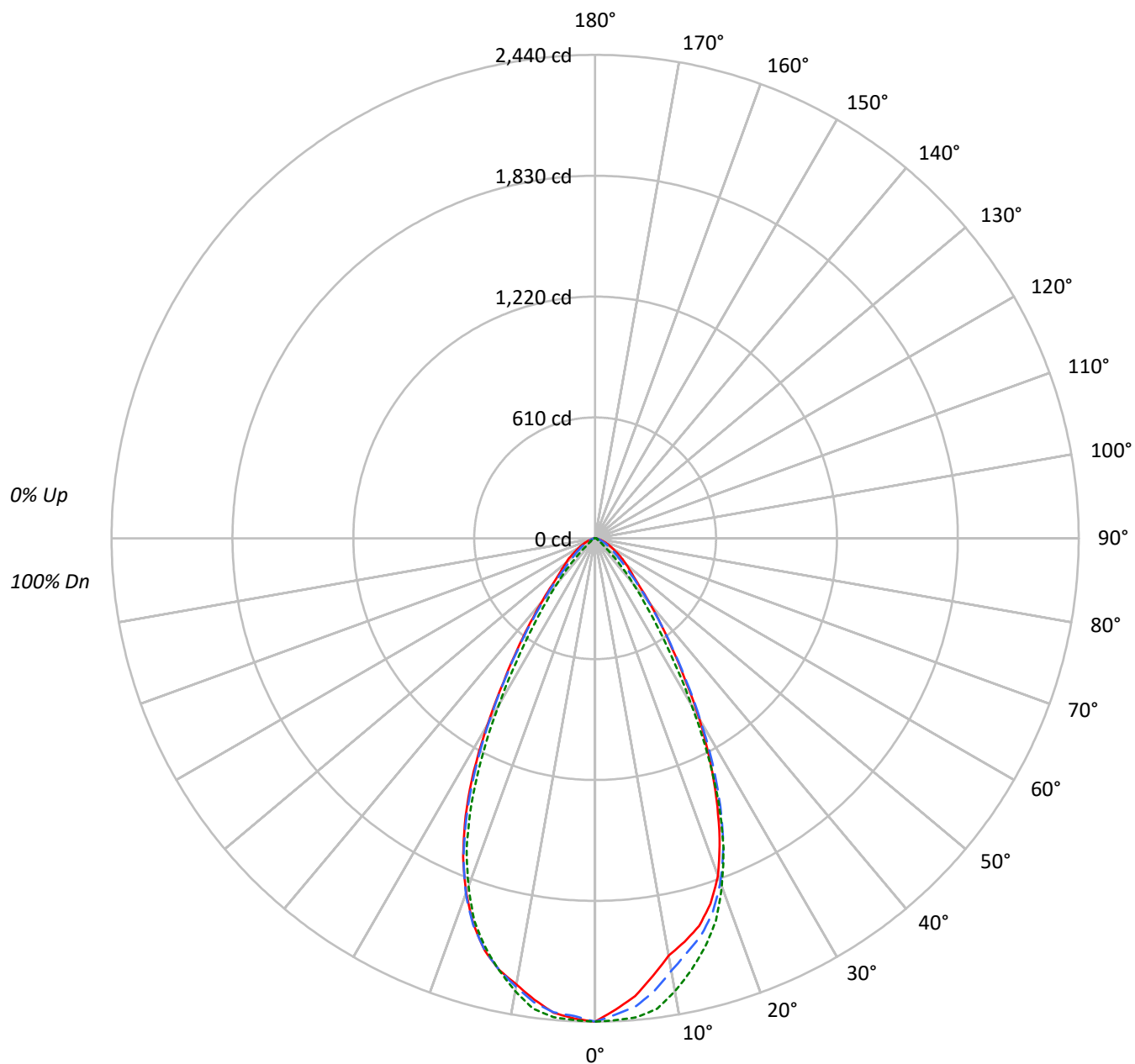
Lumens per Lamp: N/A
Luminaire Lumens: 2221.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	299726	299726	299726
5°	286010	299243	296456
10°	266750	289542	285313
15°	257592	271965	273885
20°	236949	244336	248768
25°	196390	199955	209661
30°	149392	138171	153676
35°	101159	82787	102284
40°	68881	47439	66780
45°	47796	23889	45173
50°	38894	9728	36371
55°	31464	6062	28658
60°	24988	4619	22679
65°	19709	3837	17529
70°	14871	3376	13542
75°	10728	2706	9826
80°	7995	2688	6650
85°	5356	2678	5356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	10.1
10°-20°	589.4	26.5
20°-30°	676.2	30.4
30°-40°	410.8	18.5
40°-50°	176.1	7.9
50°-60°	84.5	3.8
60°-70°	41.1	1.8
70°-80°	15.2	0.7
80°-90°	3.5	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°	1489.9	67.1
0°-40°	1900.7	85.6
0°-60°	2161.2	97.3
0°-90°	2221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2440	2440	2440	2440	2440	
5°	2319	2370	2426	2402	2404	215
15°	2025	2072	2138	2152	2153	564
25°	1449	1496	1475	1532	1547	657
35°	674	684	552	667	682	432
45°	275	245	138	220	260	223
55°	147	109	28	98	134	133
65°	68	45	13	41	60	69
75°	23	15	6	13	21	25
85°	4	4	2	2	4	5
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°	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7	2439.7
2.5°	2381.3	2407.7	2405.8	2428.4	2434.1	2428.4	2413.4	2428.4	2426.5
5°	2319.2	2349.3	2370.0	2407.7	2426.5	2422.8	2402.1	2405.8	2403.9
7.5°	2228.7	2266.4	2302.2	2358.7	2394.5	2392.6	2362.5	2356.8	2349.3
10°	2138.3	2174.1	2215.5	2273.9	2321.0	2328.6	2298.4	2290.9	2287.1
12.5°	2085.6	2113.8	2142.1	2192.9	2234.4	2249.5	2232.5	2234.4	2232.5
15°	2025.3	2053.5	2072.4	2110.0	2138.3	2159.0	2151.5	2162.8	2153.4
17.5°	1934.8	1968.7	1976.3	2004.5	2025.3	2038.5	2046.0	2057.3	2042.2
20°	1812.4	1838.8	1848.2	1859.5	1868.9	1885.9	1908.5	1919.8	1902.8
22.5°	1640.9	1691.8	1689.9	1684.3	1693.7	1699.3	1735.1	1754.0	1740.8
25°	1448.8	1501.5	1495.9	1473.3	1475.1	1486.4	1531.7	1556.2	1546.7
27.5°	1247.2	1296.2	1283.0	1239.6	1228.3	1245.3	1303.7	1332.0	1326.3
30°	1053.1	1085.2	1064.4	987.2	974.0	994.7	1070.1	1098.4	1083.3
32.5°	844.0	868.5	859.1	764.9	742.3	763.0	851.6	877.9	861.0
35°	674.5	697.1	683.9	572.7	552.0	574.6	666.9	697.1	682.0
37.5°	540.7	557.7	540.7	422.0	403.2	425.8	514.3	553.9	535.0
40°	429.5	442.7	420.1	310.9	295.8	307.1	390.0	429.5	416.4
42.5°	339.1	348.5	324.0	228.0	211.0	226.1	293.9	329.7	322.2
45°	275.1	275.1	244.9	158.3	137.5	152.6	220.4	258.1	260.0
47.5°	235.5	229.8	192.2	105.5	79.1	99.9	175.2	214.8	220.4
50°	203.5	195.9	158.3	77.2	50.9	71.6	145.1	184.6	190.3
52.5°	175.2	169.6	131.9	60.3	35.8	54.6	122.5	160.1	165.8
55°	146.9	143.2	109.3	47.1	28.3	41.4	98.0	130.0	133.8
57.5°	120.6	114.9	88.5	39.6	22.6	33.9	81.0	107.4	111.2
60°	101.7	96.1	71.6	32.0	18.8	26.4	65.9	88.5	92.3
62.5°	84.8	79.1	58.4	26.4	15.1	22.6	52.8	71.6	75.4
65°	67.8	64.1	45.2	20.7	13.2	17.0	41.4	56.5	60.3
67.5°	54.6	50.9	35.8	17.0	11.3	13.2	32.0	45.2	49.0
70°	41.4	37.7	26.4	13.2	9.4	11.3	24.5	33.9	37.7
72.5°	30.1	28.3	20.7	11.3	7.5	9.4	17.0	24.5	28.3
75°	22.6	20.7	15.1	7.5	5.7	7.5	13.2	18.8	20.7
77.5°	15.1	15.1	11.3	5.7	5.7	5.7	9.4	13.2	13.2
80°	11.3	9.4	7.5	3.8	3.8	3.8	5.7	9.4	9.4
82.5°	7.5	5.7	5.7	3.8	3.8	3.8	3.8	5.7	5.7
85°	3.8	3.8	3.8	1.9	1.9	1.9	1.9	3.8	3.8
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)