

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: P857528

Luminaire Tested: **LD4C30D010 EU4309030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857528
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 4LBMDSWMW
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

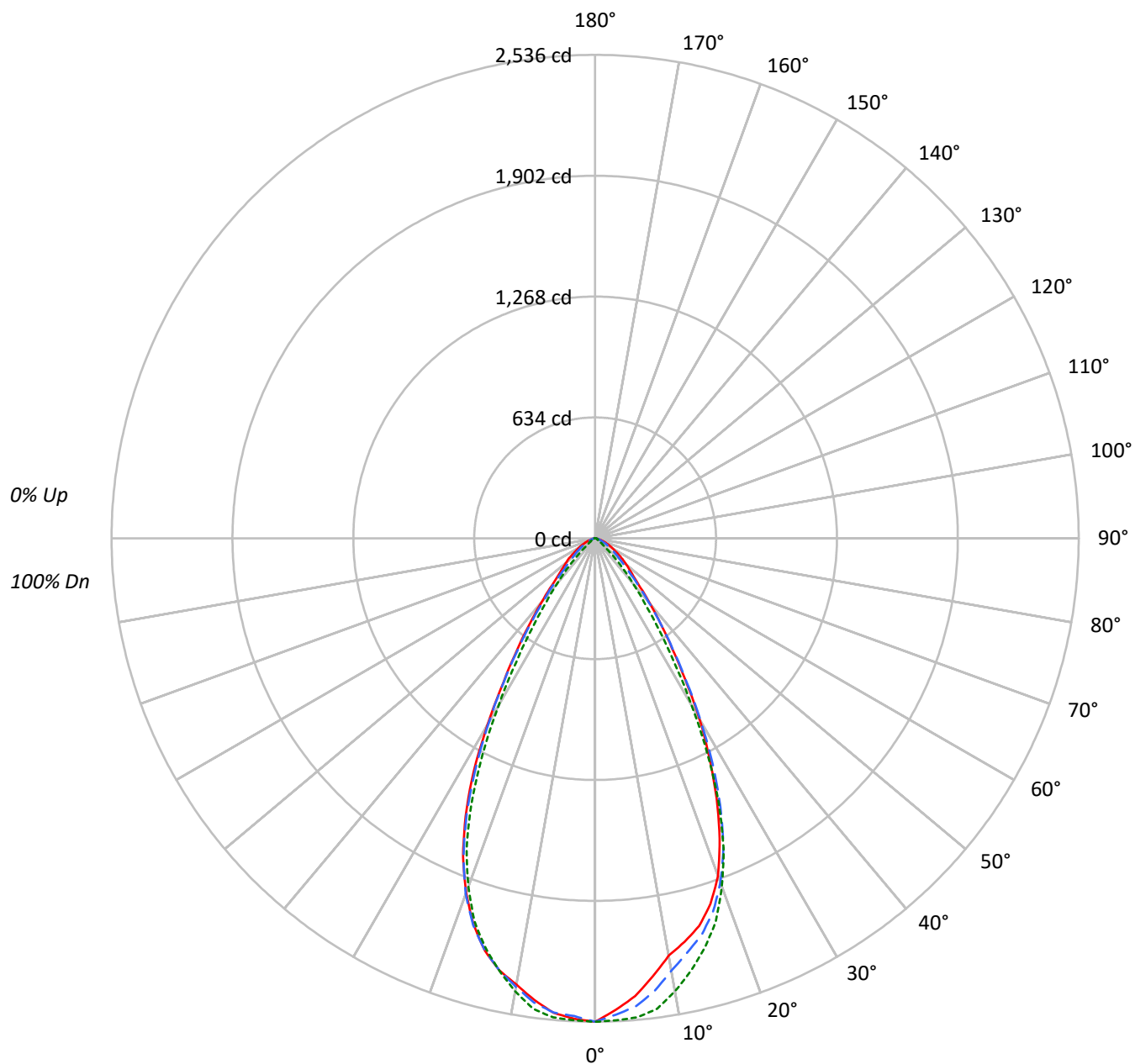
Lumens per Lamp: N/A
Luminaire Lumens: 2309.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	311606	311606	311606
5°	297343	311106	308208
10°	277316	301019	296627
15°	267793	282737	284734
20°	246336	254011	258626
25°	204171	207885	217971
30°	155321	143646	159762
35°	105163	86071	106333
40°	71623	49315	69426
45°	49690	24845	46962
50°	40423	10111	37805
55°	32728	6297	29794
60°	25996	4816	23588
65°	20494	3983	18227
70°	15481	3520	14081
75°	11155	2801	10205
80°	8348	2759	6933
85°	5497	2819	5497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	10.1
10°-20°	612.7	26.5
20°-30°	703.0	30.4
30°-40°	427.1	18.5
40°-50°	183.0	7.9
50°-60°	87.8	3.8
60°-70°	42.7	1.8
70°-80°	15.8	0.7
80°-90°	3.7	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°	1548.9	67.1
0°-40°	1976.0	85.6
0°-60°	2246.8	97.3
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2536	2536	2536	2536	2536	
5°	2411	2464	2523	2497	2499	224
15°	2106	2154	2223	2237	2239	586
25°	1506	1555	1534	1592	1608	683
35°	701	711	574	693	709	449
45°	286	255	143	229	270	232
55°	153	114	29	102	139	138
65°	70	47	14	43	63	72
75°	24	16	6	14	22	26
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°	2536.4	2536.4	2536.4	2536.4	2536.4	2536.4	2536.4	2536.4	2536.4
2.5°	2475.7	2503.1	2501.1	2524.7	2530.5	2524.7	2509.0	2524.7	2522.7
5°	2411.1	2442.4	2463.9	2503.1	2522.7	2518.8	2497.2	2501.1	2499.2
7.5°	2317.0	2356.2	2393.4	2452.2	2489.4	2487.4	2456.1	2450.2	2442.4
10°	2223.0	2260.2	2303.3	2364.0	2413.0	2420.8	2389.5	2381.7	2377.8
12.5°	2168.2	2197.6	2226.9	2279.8	2322.9	2338.6	2321.0	2322.9	2321.0
15°	2105.5	2134.9	2154.5	2193.6	2223.0	2244.6	2236.7	2248.5	2238.7
17.5°	2011.5	2046.7	2054.6	2084.0	2105.5	2119.2	2127.1	2138.8	2123.1
20°	1884.2	1911.6	1921.4	1933.2	1942.9	1960.6	1984.1	1995.8	1978.2
22.5°	1706.0	1758.8	1756.9	1751.0	1760.8	1766.7	1803.9	1823.5	1809.8
25°	1506.2	1561.0	1555.1	1531.6	1533.6	1545.3	1592.4	1617.8	1608.0
27.5°	1296.6	1347.5	1333.8	1288.8	1277.0	1294.6	1355.4	1384.7	1378.9
30°	1094.9	1128.2	1106.6	1026.3	1012.6	1034.1	1112.5	1141.9	1126.2
32.5°	877.5	902.9	893.1	795.2	771.7	793.2	885.3	912.7	895.1
35°	701.2	724.7	711.0	595.4	573.9	597.4	693.3	724.7	709.0
37.5°	562.1	579.7	562.1	438.7	419.1	442.6	534.7	575.8	556.2
40°	446.6	460.3	436.8	323.2	307.5	319.3	405.4	446.6	432.9
42.5°	352.6	362.3	336.9	237.0	219.4	235.0	305.5	342.8	334.9
45°	286.0	286.0	254.6	164.5	143.0	158.6	229.2	268.3	270.3
47.5°	244.8	239.0	199.8	109.7	82.3	103.8	182.2	223.3	229.2
50°	211.5	203.7	164.5	80.3	52.9	74.4	150.8	191.9	197.8
52.5°	182.2	176.3	137.1	62.7	37.2	56.8	127.3	166.5	172.4
55°	152.8	148.9	113.6	49.0	29.4	43.1	101.8	135.1	139.1
57.5°	125.4	119.5	92.1	41.1	23.5	35.3	84.2	111.6	115.6
60°	105.8	99.9	74.4	33.3	19.6	27.4	68.6	92.1	96.0
62.5°	88.1	82.3	60.7	27.4	15.7	23.5	54.8	74.4	78.3
65°	70.5	66.6	47.0	21.5	13.7	17.6	43.1	58.8	62.7
67.5°	56.8	52.9	37.2	17.6	11.8	13.7	33.3	47.0	50.9
70°	43.1	39.2	27.4	13.7	9.8	11.8	25.5	35.3	39.2
72.5°	31.3	29.4	21.5	11.8	7.8	9.8	17.6	25.5	29.4
75°	23.5	21.5	15.7	7.8	5.9	7.8	13.7	19.6	21.5
77.5°	15.7	15.7	11.8	5.9	5.9	5.9	9.8	13.7	13.7
80°	11.8	9.8	7.8	3.9	3.9	3.9	5.9	9.8	9.8
82.5°	7.8	5.9	5.9	3.9	3.9	3.9	3.9	5.9	5.9
85°	3.9	3.9	3.9	2.0	2.0	2.0	2.0	3.9	3.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)