

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: P857549

Luminaire Tested: **LD4C30D010 EU4309035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857549
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 4LBMDSWMW
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

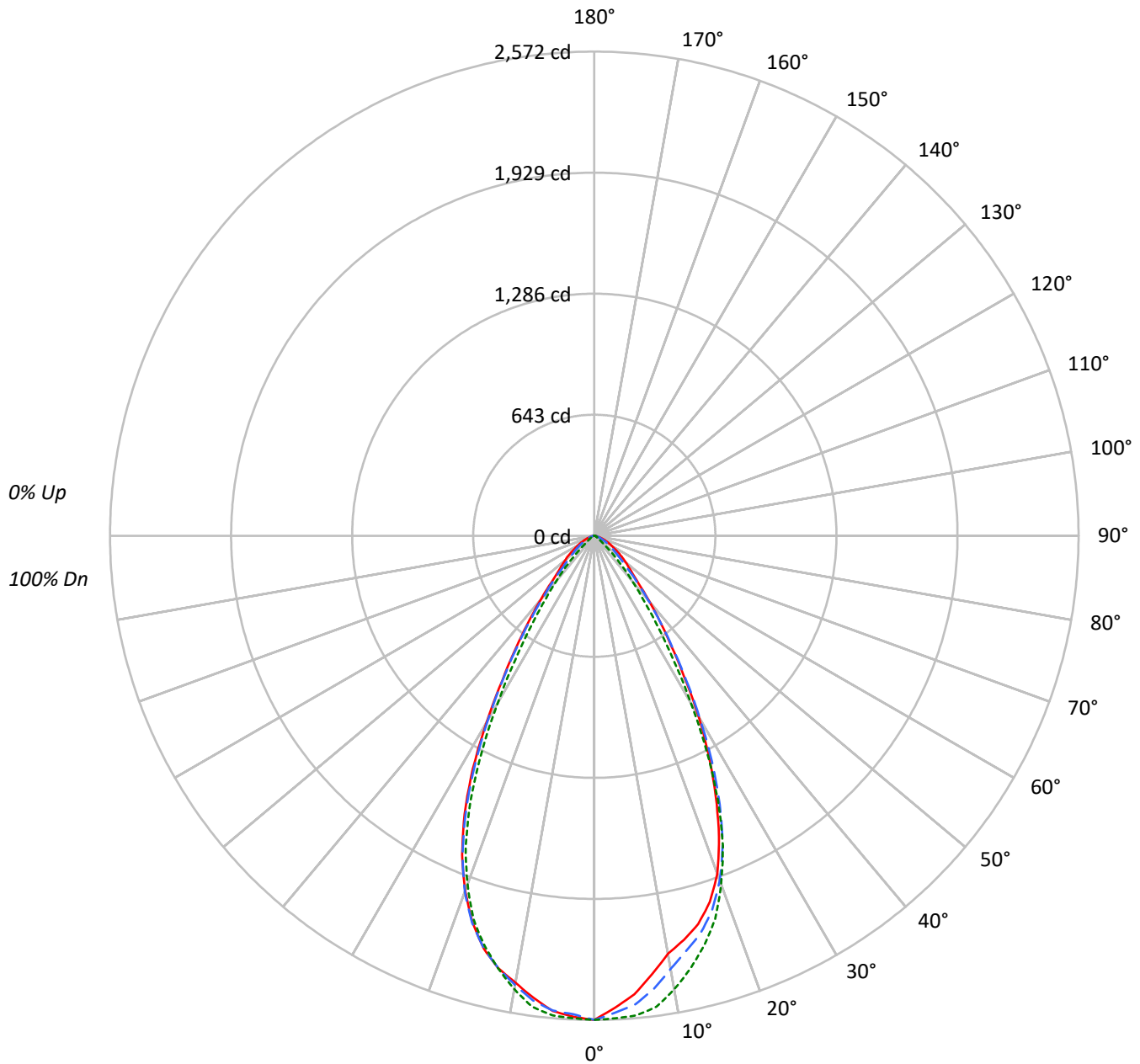
Lumens per Lamp: N/A
Luminaire Lumens: 2341.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
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°	315930	315930	315930
5°	301462	315423	312475
10°	281159	305198	300732
15°	271507	286655	288677
20°	249749	257541	262208
25°	206991	210759	220993
30°	157463	145632	161975
35°	106618	87256	107803
40°	72617	50005	70388
45°	50368	25192	47605
50°	40997	10244	38340
55°	33178	6383	30201
60°	26340	4890	23907
65°	20785	4041	18459
70°	15697	3556	14260
75°	11297	2848	10348
80°	8419	2830	7004
85°	5638	2819	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	10.1
10°-20°	621.2	26.5
20°-30°	712.7	30.4
30°-40°	433.0	18.5
40°-50°	185.6	7.9
50°-60°	89.0	3.8
60°-70°	43.3	1.8
70°-80°	16.1	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°	1570.4	67.1
0°-40°	2003.4	85.6
0°-60°	2278.0	97.3
0°-90°	2341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2572	2572	2572	2572	2572	
5°	2444	2498	2558	2532	2534	227
15°	2135	2184	2254	2268	2270	594
25°	1527	1577	1555	1614	1630	693
35°	711	721	582	703	719	456
45°	290	258	145	232	274	236
55°	155	115	30	103	141	140
65°	72	48	14	44	64	73
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°	2571.6	2571.6	2571.6	2571.6	2571.6	2571.6	2571.6	2571.6	2571.6
2.5°	2510.0	2537.8	2535.8	2559.6	2565.6	2559.6	2543.8	2559.6	2557.7
5°	2444.5	2476.2	2498.1	2537.8	2557.7	2553.7	2531.8	2535.8	2533.8
7.5°	2349.1	2388.9	2426.6	2486.2	2523.9	2521.9	2490.1	2484.2	2476.2
10°	2253.8	2291.6	2335.2	2396.8	2446.5	2454.4	2422.6	2414.7	2410.7
12.5°	2198.2	2228.0	2257.8	2311.4	2355.1	2371.0	2353.1	2355.1	2353.1
15°	2134.7	2164.5	2184.3	2224.0	2253.8	2275.7	2267.7	2279.6	2269.7
17.5°	2039.4	2075.1	2083.1	2112.8	2134.7	2148.6	2156.5	2168.4	2152.6
20°	1910.3	1938.1	1948.0	1959.9	1969.9	1987.7	2011.6	2023.5	2005.6
22.5°	1729.6	1783.2	1781.2	1775.3	1785.2	1791.2	1828.9	1848.7	1834.8
25°	1527.0	1582.6	1576.7	1552.9	1554.8	1566.8	1614.4	1640.2	1630.3
27.5°	1314.6	1366.2	1352.3	1306.6	1294.7	1312.6	1374.1	1403.9	1398.0
30°	1110.0	1143.8	1122.0	1040.5	1026.6	1048.5	1127.9	1157.7	1141.8
32.5°	889.6	915.4	905.5	806.2	782.4	804.2	897.6	925.4	907.5
35°	710.9	734.7	720.8	603.7	581.8	605.7	703.0	734.7	718.8
37.5°	569.9	587.8	569.9	444.8	425.0	448.8	542.1	583.8	564.0
40°	452.8	466.7	442.8	327.6	311.8	323.7	411.1	452.8	438.9
42.5°	357.4	367.4	341.6	240.3	222.4	238.3	309.8	347.5	339.6
45°	289.9	289.9	258.1	166.8	145.0	160.8	232.3	272.0	274.0
47.5°	248.2	242.3	202.5	111.2	83.4	105.2	184.7	226.4	232.3
50°	214.5	206.5	166.8	81.4	53.6	75.5	152.9	194.6	200.6
52.5°	184.7	178.7	139.0	63.5	37.7	57.6	129.1	168.8	174.7
55°	154.9	150.9	115.2	49.6	29.8	43.7	103.3	137.0	141.0
57.5°	127.1	121.1	93.3	41.7	23.8	35.7	85.4	113.2	117.2
60°	107.2	101.3	75.5	33.8	19.9	27.8	69.5	93.3	97.3
62.5°	89.4	83.4	61.6	27.8	15.9	23.8	55.6	75.5	79.4
65°	71.5	67.5	47.7	21.8	13.9	17.9	43.7	59.6	63.5
67.5°	57.6	53.6	37.7	17.9	11.9	13.9	33.8	47.7	51.6
70°	43.7	39.7	27.8	13.9	9.9	11.9	25.8	35.7	39.7
72.5°	31.8	29.8	21.8	11.9	7.9	9.9	17.9	25.8	29.8
75°	23.8	21.8	15.9	7.9	6.0	7.9	13.9	19.9	21.8
77.5°	15.9	15.9	11.9	6.0	6.0	6.0	9.9	13.9	13.9
80°	11.9	9.9	7.9	4.0	4.0	4.0	6.0	9.9	9.9
82.5°	7.9	6.0	6.0	4.0	4.0	4.0	4.0	6.0	6.0
85°	4.0	4.0	4.0	2.0	2.0	2.0	2.0	4.0	4.0
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)