

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: P857505

Luminaire Tested: **LD4C30D010 EU4309027 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857505
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 4LBMDSWH
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

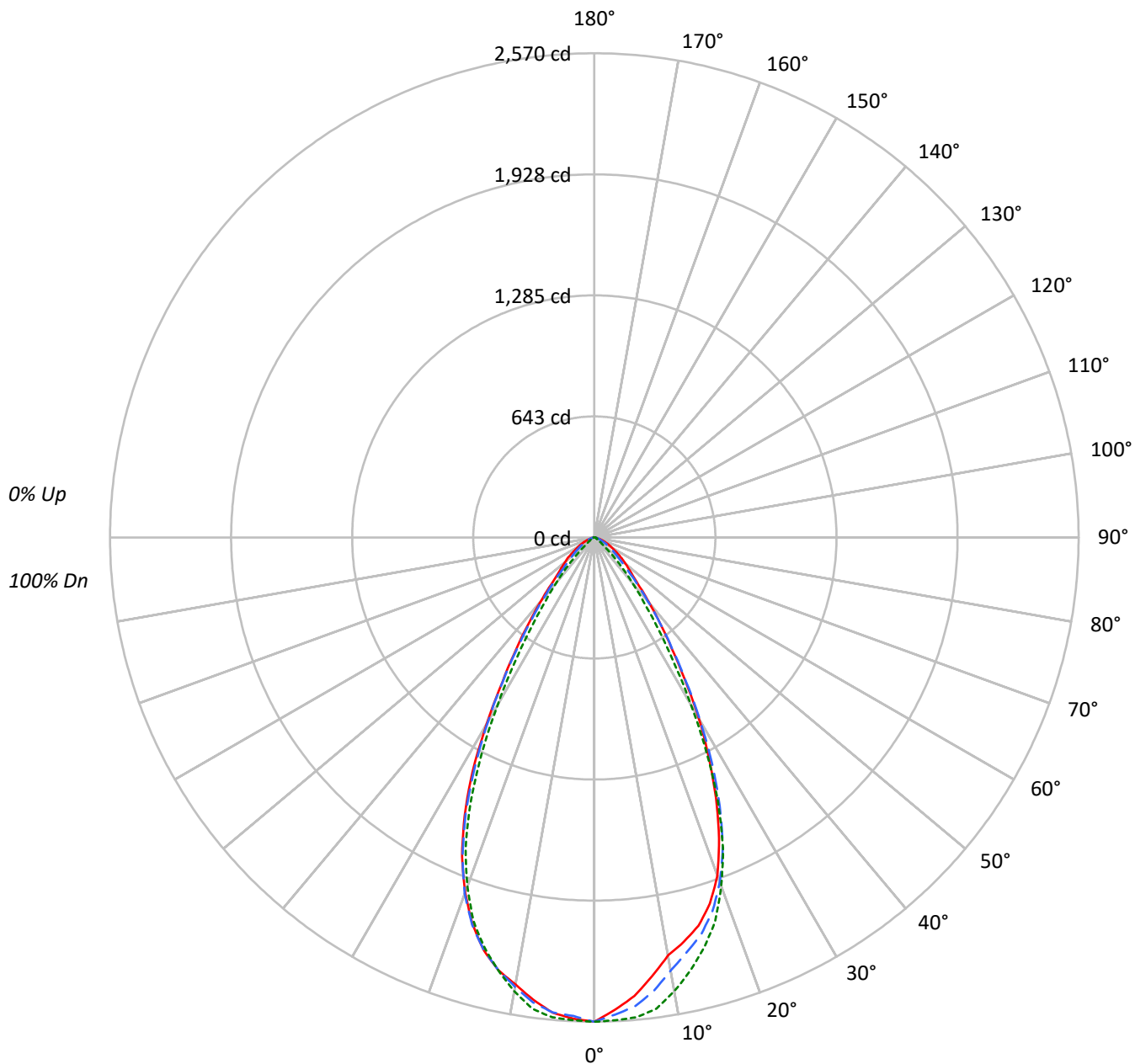
Lumens per Lamp: N/A
Luminaire Lumens: 2340.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	315795	315795	315795
5°	301327	315287	312340
10°	281046	305060	300607
15°	271392	286540	288550
20°	249644	257423	262103
25°	206909	210678	220898
30°	157407	145576	161904
35°	106573	87226	107758
40°	72585	49972	70356
45°	50350	25175	47588
50°	40977	10244	38321
55°	33156	6383	30179
60°	26340	4865	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°	236.3	10.1
10°-20°	620.9	26.5
20°-30°	712.4	30.4
30°-40°	432.8	18.5
40°-50°	185.5	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°	1569.7	67.1
0°-40°	2002.5	85.6
0°-60°	2277.0	97.3
0°-90°	2340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2340.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2570	2570	2570	2570	2570	
5°	2443	2497	2557	2531	2533	227
15°	2134	2183	2253	2267	2269	594
25°	1526	1576	1554	1614	1630	692
35°	711	720	582	703	718	455
45°	290	258	145	232	274	235
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°	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5
2.5°	2508.9	2536.7	2534.7	2558.5	2564.5	2558.5	2542.7	2558.5	2556.6
5°	2443.4	2475.2	2497.0	2536.7	2556.6	2552.6	2530.8	2534.7	2532.7
7.5°	2348.1	2387.8	2425.6	2485.1	2522.8	2520.8	2489.1	2483.1	2475.2
10°	2252.9	2290.6	2334.3	2395.8	2445.4	2453.3	2421.6	2413.6	2409.7
12.5°	2197.3	2227.1	2256.8	2310.4	2354.1	2370.0	2352.1	2354.1	2352.1
15°	2133.8	2163.5	2183.4	2223.1	2252.9	2274.7	2266.8	2278.7	2268.7
17.5°	2038.5	2074.2	2082.2	2111.9	2133.8	2147.7	2155.6	2167.5	2151.6
20°	1909.5	1937.3	1947.2	1959.1	1969.0	1986.9	2010.7	2022.6	2004.8
22.5°	1728.9	1782.4	1780.5	1774.5	1784.4	1790.4	1828.1	1847.9	1834.1
25°	1526.4	1582.0	1576.0	1552.2	1554.2	1566.1	1613.7	1639.5	1629.6
27.5°	1314.0	1365.6	1351.7	1306.1	1294.2	1312.0	1373.6	1403.3	1397.4
30°	1109.6	1143.3	1121.5	1040.1	1026.2	1048.0	1127.4	1157.2	1141.3
32.5°	889.2	915.0	905.1	805.9	782.1	803.9	897.2	925.0	907.1
35°	710.6	734.4	720.5	603.4	581.6	605.4	702.7	734.4	718.5
37.5°	569.7	587.5	569.7	444.6	424.8	448.6	541.9	583.6	563.7
40°	452.6	466.5	442.6	327.5	311.6	323.5	410.9	452.6	438.7
42.5°	357.3	367.2	341.4	240.2	222.3	238.2	309.6	347.4	339.4
45°	289.8	289.8	258.0	166.7	144.9	160.8	232.2	271.9	273.9
47.5°	248.1	242.2	202.5	111.2	83.4	105.2	184.6	226.3	232.2
50°	214.4	206.4	166.7	81.4	53.6	75.4	152.8	194.5	200.5
52.5°	184.6	178.6	138.9	63.5	37.7	57.6	129.0	168.7	174.7
55°	154.8	150.9	115.1	49.6	29.8	43.7	103.2	137.0	140.9
57.5°	127.0	121.1	93.3	41.7	23.8	35.7	85.4	113.1	117.1
60°	107.2	101.2	75.4	33.7	19.8	27.8	69.5	93.3	97.3
62.5°	89.3	83.4	61.5	27.8	15.9	23.8	55.6	75.4	79.4
65°	71.5	67.5	47.6	21.8	13.9	17.9	43.7	59.5	63.5
67.5°	57.6	53.6	37.7	17.9	11.9	13.9	33.7	47.6	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	19.8	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)