

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: P857881

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857881
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: LD4C40D010 EU4409027 4LBMDDWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

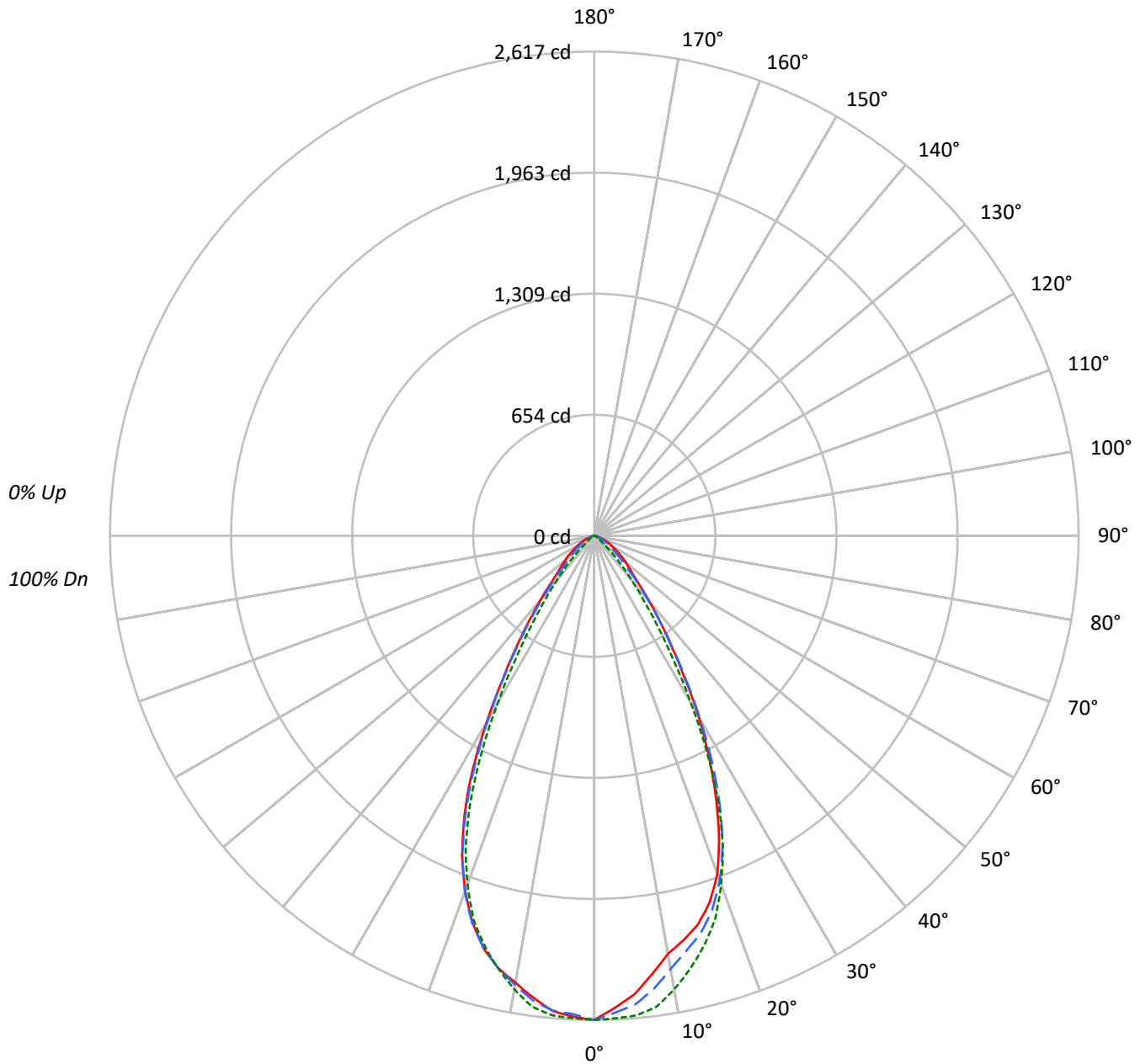
Lumens per Lamp: N/A
Luminaire Lumens: 2382.0 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	321458	321458	321458
5°	306741	320935	317951
10°	286086	310537	305996
15°	276263	291679	293739
20°	254128	262051	266797
25°	210624	214460	224870
30°	160230	148186	164812
35°	108493	88786	109693
40°	73884	50871	71607
45°	51254	25627	48439
50°	41704	10435	39009
55°	33756	6490	30736
60°	26807	4963	24325
65°	21134	4099	18808
70°	15984	3628	14512
75°	11487	2895	10538
80°	8561	2830	7146
85°	5638	2819	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.6	10.1
10°-20°	632.1	26.5
20°-30°	725.2	30.4
30°-40°	440.6	18.5
40°-50°	188.8	7.9
50°-60°	90.6	3.8
60°-70°	44.0	1.8
70°-80°	16.3	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°	1597.9	67.1
0°-40°	2038.5	85.6
0°-60°	2317.9	97.3
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2617	2617	2617	2617	2617	
5°	2487	2542	2602	2576	2578	231
15°	2172	2223	2293	2308	2310	605
25°	1554	1604	1582	1643	1659	705
35°	723	734	592	715	731	464
45°	295	263	148	236	279	240
55°	158	117	30	105	144	142
65°	73	48	14	44	65	74
75°	24	16	6	14	22	27
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°	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6	2616.6
2.5°	2554.0	2582.2	2580.2	2604.5	2610.5	2604.5	2588.3	2604.5	2602.4
5°	2487.3	2519.6	2541.8	2582.2	2602.4	2598.4	2576.2	2580.2	2578.2
7.5°	2390.3	2430.7	2469.1	2529.7	2568.1	2566.1	2533.8	2527.7	2519.6
10°	2293.3	2331.7	2376.1	2438.8	2489.3	2497.4	2465.1	2457.0	2452.9
12.5°	2236.7	2267.0	2297.3	2351.9	2396.4	2412.5	2394.3	2396.4	2394.3
15°	2172.1	2202.4	2222.6	2263.0	2293.3	2315.5	2307.5	2319.6	2309.5
17.5°	2075.1	2111.5	2119.5	2149.8	2172.1	2186.2	2194.3	2206.4	2190.3
20°	1943.8	1972.0	1982.1	1994.3	2004.4	2022.6	2046.8	2058.9	2040.7
22.5°	1759.9	1814.4	1812.4	1806.4	1816.5	1822.5	1860.9	1881.1	1867.0
25°	1553.8	1610.4	1604.3	1580.1	1582.1	1594.2	1642.7	1669.0	1658.9
27.5°	1337.6	1390.1	1376.0	1329.5	1317.4	1335.6	1398.2	1428.5	1422.5
30°	1129.5	1163.8	1141.6	1058.8	1044.6	1066.8	1147.7	1178.0	1161.8
32.5°	905.2	931.5	921.4	820.3	796.1	818.3	913.3	941.6	923.4
35°	723.4	747.6	733.5	614.2	592.0	616.3	715.3	747.6	731.4
37.5°	579.9	598.1	579.9	452.6	432.4	456.6	551.6	594.0	573.8
40°	460.7	474.8	450.6	333.4	317.2	329.3	418.3	460.7	446.5
42.5°	363.7	373.8	347.5	244.5	226.3	242.5	315.2	353.6	345.5
45°	295.0	295.0	262.7	169.7	147.5	163.7	236.4	276.8	278.8
47.5°	252.6	246.5	206.1	113.1	84.9	107.1	187.9	230.3	236.4
50°	218.2	210.1	169.7	82.8	54.6	76.8	155.6	198.0	204.1
52.5°	187.9	181.8	141.4	64.7	38.4	58.6	131.3	171.7	177.8
55°	157.6	153.6	117.2	50.5	30.3	44.5	105.1	139.4	143.5
57.5°	129.3	123.3	95.0	42.4	24.2	36.4	86.9	115.2	119.2
60°	109.1	103.0	76.8	34.3	20.2	28.3	70.7	95.0	99.0
62.5°	90.9	84.9	62.6	28.3	16.2	24.2	56.6	76.8	80.8
65°	72.7	68.7	48.5	22.2	14.1	18.2	44.5	60.6	64.7
67.5°	58.6	54.6	38.4	18.2	12.1	14.1	34.3	48.5	52.5
70°	44.5	40.4	28.3	14.1	10.1	12.1	26.3	36.4	40.4
72.5°	32.3	30.3	22.2	12.1	8.1	10.1	18.2	26.3	30.3
75°	24.2	22.2	16.2	8.1	6.1	8.1	14.1	20.2	22.2
77.5°	16.2	16.2	12.1	6.1	6.1	6.1	10.1	14.1	14.1
80°	12.1	10.1	8.1	4.0	4.0	4.0	6.1	10.1	10.1
82.5°	8.1	6.1	6.1	4.0	4.0	4.0	4.0	6.1	6.1
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)