

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: P857902

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857902
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 EU4409030 4LBMDDWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

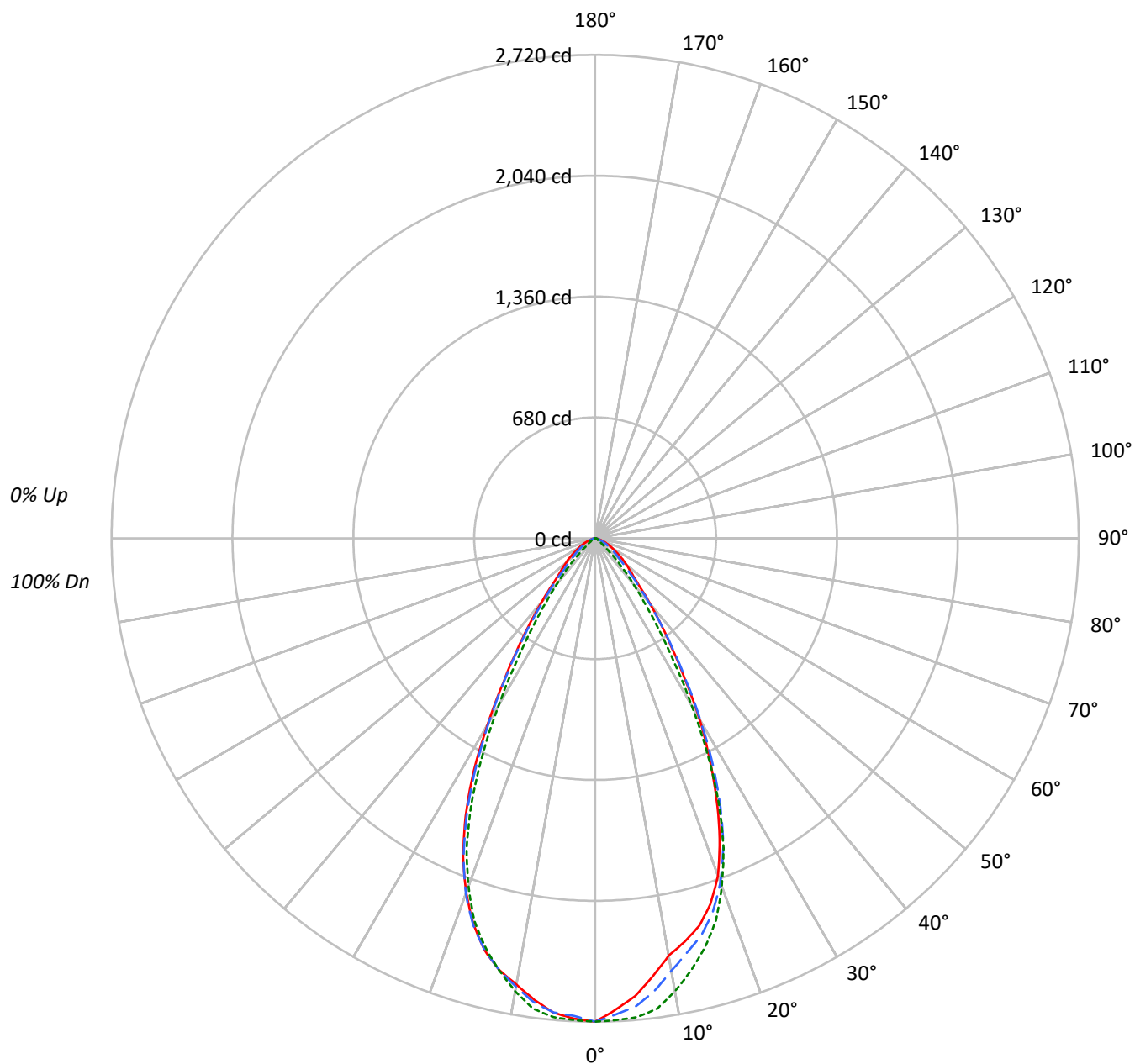
Lumens per Lamp: N/A
Luminaire Lumens: 2476.0 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P857902

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDDWLI

Luminous Intensity Polar Plot





TEST NUMBER: P857902

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDDWLI

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°	334149	334149	334149
5°	318839	333600	330493
10°	297376	322787	318072
15°	287163	303189	305326
20°	264156	272392	277334
25°	218933	222918	233735
30°	166557	154030	171323
35°	112767	92295	114027
40°	76803	52875	74446
45°	53269	26635	50350
50°	43347	10837	40538
55°	35084	6747	31936
60°	27863	5160	25283
65°	21977	4273	19535
70°	16595	3772	15086
75°	11962	2990	10965
80°	8914	2971	7429
85°	5920	2960	5920



TEST NUMBER: P857902

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDDWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	10.1
10°-20°	657.0	26.5
20°-30°	753.8	30.4
30°-40°	458.0	18.5
40°-50°	196.2	7.9
50°-60°	94.1	3.8
60°-70°	45.8	1.8
70°-80°	17.0	0.7
80°-90°	3.9	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°	1660.9	67.1
0°-40°	2118.9	85.6
0°-60°	2409.3	97.3
0°-90°	2476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2720	2720	2720	2720	2720	
5°	2585	2642	2705	2678	2680	240
15°	2258	2310	2384	2398	2401	629
25°	1615	1668	1644	1708	1724	733
35°	752	762	615	744	760	482
45°	307	273	153	246	290	249
55°	164	122	32	109	149	148
65°	76	50	15	46	67	77
75°	25	17	6	15	23	28
85°	4	4	2	2	4	6
90°	0	0	0	0	0	



TEST NUMBER: P857902

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDDWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9	2719.9
2.5°	2654.7	2684.1	2682.0	2707.2	2713.5	2707.2	2690.4	2707.2	2705.1
5°	2585.4	2619.0	2642.1	2684.1	2705.1	2700.9	2677.8	2682.0	2679.9
7.5°	2484.6	2526.6	2566.5	2629.5	2669.4	2667.3	2633.7	2627.4	2619.0
10°	2383.8	2423.7	2469.9	2535.0	2587.5	2595.9	2562.3	2553.9	2549.7
12.5°	2325.0	2356.5	2388.0	2444.7	2490.9	2507.7	2488.8	2490.9	2488.8
15°	2257.8	2289.3	2310.3	2352.3	2383.8	2406.9	2398.5	2411.1	2400.6
17.5°	2157.0	2194.8	2203.2	2234.7	2257.8	2272.5	2280.9	2293.5	2276.7
20°	2020.5	2049.9	2060.4	2073.0	2083.5	2102.4	2127.6	2140.2	2121.3
22.5°	1829.3	1886.0	1883.9	1877.6	1888.1	1894.4	1934.3	1955.4	1940.6
25°	1615.1	1673.9	1667.6	1642.4	1644.5	1657.1	1707.5	1734.8	1724.3
27.5°	1390.4	1445.0	1430.3	1382.0	1369.4	1388.3	1453.4	1484.9	1478.6
30°	1174.1	1209.8	1186.7	1100.5	1085.8	1108.9	1193.0	1224.5	1207.7
32.5°	940.9	968.2	957.7	852.7	827.5	850.6	949.3	978.7	959.8
35°	751.9	777.1	762.4	638.5	615.4	640.6	743.5	777.1	760.3
37.5°	602.8	621.7	602.8	470.5	449.5	474.7	573.4	617.5	596.5
40°	478.9	493.6	468.4	346.5	329.7	342.3	434.8	478.9	464.2
42.5°	378.0	388.6	361.2	254.1	235.2	252.0	327.6	367.5	359.1
45°	306.6	306.6	273.0	176.4	153.3	170.1	245.7	287.7	289.8
47.5°	262.5	256.2	214.2	117.6	88.2	111.3	195.3	239.4	245.7
50°	226.8	218.4	176.4	86.1	56.7	79.8	161.7	205.8	212.1
52.5°	195.3	189.0	147.0	67.2	39.9	60.9	136.5	178.5	184.8
55°	163.8	159.6	121.8	52.5	31.5	46.2	109.2	144.9	149.1
57.5°	134.4	128.1	98.7	44.1	25.2	37.8	90.3	119.7	123.9
60°	113.4	107.1	79.8	35.7	21.0	29.4	73.5	98.7	102.9
62.5°	94.5	88.2	65.1	29.4	16.8	25.2	58.8	79.8	84.0
65°	75.6	71.4	50.4	23.1	14.7	18.9	46.2	63.0	67.2
67.5°	60.9	56.7	39.9	18.9	12.6	14.7	35.7	50.4	54.6
70°	46.2	42.0	29.4	14.7	10.5	12.6	27.3	37.8	42.0
72.5°	33.6	31.5	23.1	12.6	8.4	10.5	18.9	27.3	31.5
75°	25.2	23.1	16.8	8.4	6.3	8.4	14.7	21.0	23.1
77.5°	16.8	16.8	12.6	6.3	6.3	6.3	10.5	14.7	14.7
80°	12.6	10.5	8.4	4.2	4.2	4.2	6.3	10.5	10.5
82.5°	8.4	6.3	6.3	4.2	4.2	4.2	4.2	6.3	6.3
85°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	4.2	4.2
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)