

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: P857904

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDSWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857904
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 4LBMDSWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

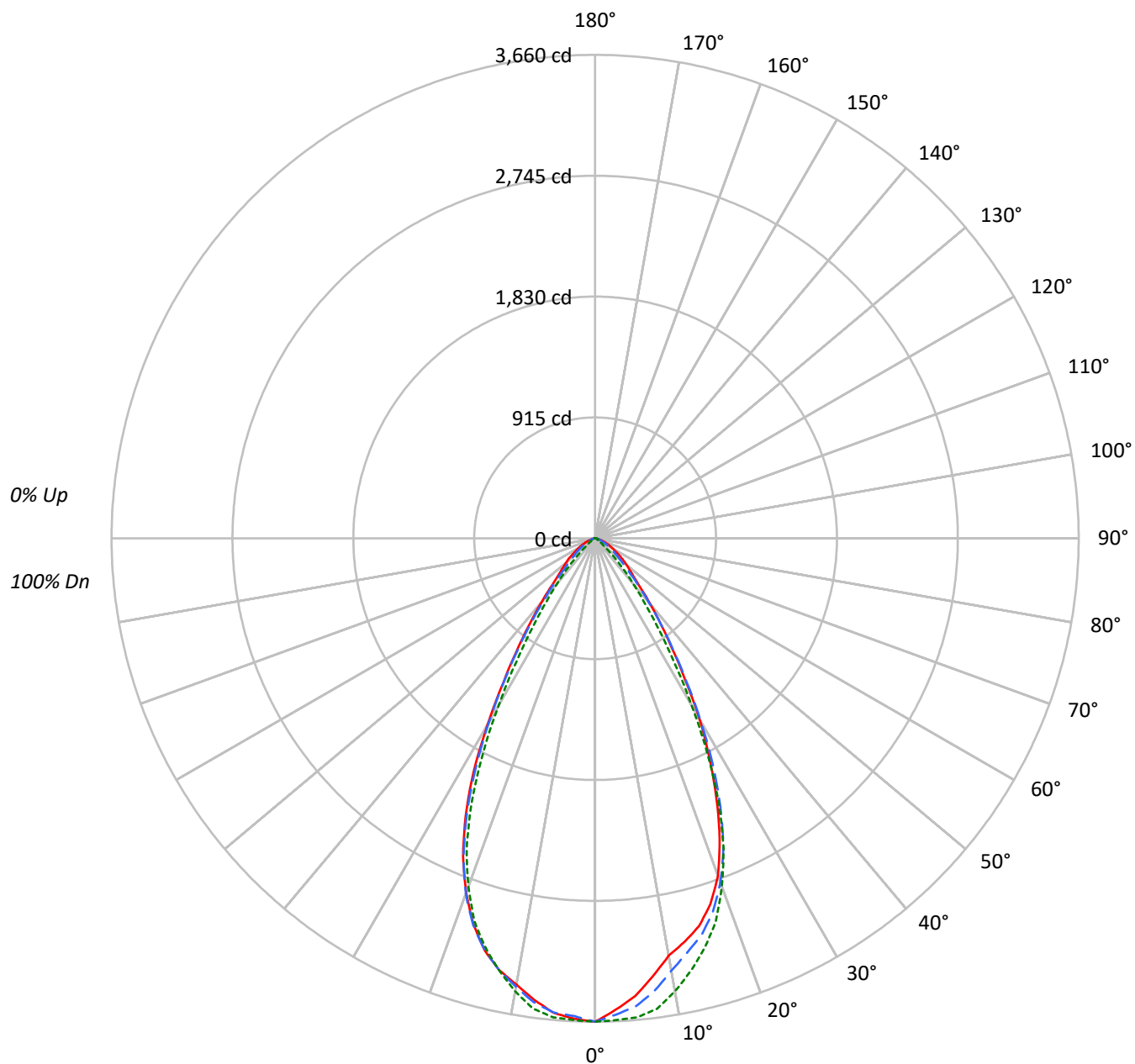
Lumens per Lamp: N/A
Luminaire Lumens: 3332.0 lumens
Efficiency: N/A
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857904

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDSWH

Luminous Intensity Polar Plot





TEST NUMBER: P857904

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDSWH

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°	449668	449668	449668
5°	429077	448944	444764
10°	400181	434387	428038
15°	386446	408004	410878
20°	355476	366563	373205
25°	294626	299994	314553
30°	224123	207284	230549
35°	151746	124195	153441
40°	103345	71158	100169
45°	71703	35843	67759
50°	58332	14583	54566
55°	47229	9082	42988
60°	37495	6954	34030
65°	29564	5756	26279
70°	22342	5065	20295
75°	16091	4035	14762
80°	12027	4033	9976
85°	8035	3947	8035



TEST NUMBER: P857904

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDSWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	10.1
10°-20°	884.2	26.5
20°-30°	1014.5	30.4
30°-40°	616.3	18.5
40°-50°	264.1	7.9
50°-60°	126.7	3.8
60°-70°	61.6	1.8
70°-80°	22.9	0.7
80°-90°	5.3	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°	2235.2	67.1
0°-40°	2851.5	85.6
0°-60°	3242.3	97.3
0°-90°	3332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3660	3660	3660	3660	3660	
5°	3479	3556	3640	3604	3606	323
15°	3038	3109	3208	3228	3230	846
25°	2174	2244	2213	2298	2320	986
35°	1012	1026	828	1000	1023	648
45°	413	367	206	331	390	335
55°	220	164	42	147	201	199
65°	102	68	20	62	90	103
75°	34	23	8	20	31	37
85°	6	6	3	3	6	8
90°	0	0	0	0	0	



TEST NUMBER: P857904

CATALOG NUMBER: LD4C40D010 EU4409030 4LBMDSWH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3660.2	3660.2	3660.2	3660.2	3660.2	3660.2	3660.2	3660.2	3660.2
2.5°	3572.5	3612.1	3609.3	3643.2	3651.7	3643.2	3620.6	3643.2	3640.4
5°	3479.3	3524.5	3555.6	3612.1	3640.4	3634.7	3603.6	3609.3	3606.5
7.5°	3343.6	3400.1	3453.8	3538.6	3592.3	3589.5	3544.3	3535.8	3524.5
10°	3207.9	3261.6	3323.8	3411.4	3482.1	3493.4	3448.2	3436.9	3431.2
12.5°	3128.8	3171.2	3213.6	3289.9	3352.1	3374.7	3349.3	3352.1	3349.3
15°	3038.4	3080.7	3109.0	3165.5	3207.9	3239.0	3227.7	3244.7	3230.5
17.5°	2902.7	2953.6	2964.9	3007.3	3038.4	3058.1	3069.4	3086.4	3063.8
20°	2719.0	2758.5	2772.7	2789.6	2803.8	2829.2	2863.1	2880.1	2854.6
22.5°	2461.8	2538.1	2535.3	2526.8	2540.9	2549.4	2603.1	2631.4	2611.6
25°	2173.5	2252.6	2244.1	2210.2	2213.1	2230.0	2297.8	2334.6	2320.5
27.5°	1871.1	1944.5	1924.8	1859.8	1842.8	1868.2	1955.9	1998.2	1989.8
30°	1579.9	1628.0	1596.9	1481.0	1461.2	1492.3	1605.4	1647.8	1625.2
32.5°	1266.2	1303.0	1288.8	1147.5	1113.6	1144.7	1277.5	1317.1	1291.7
35°	1011.8	1045.8	1026.0	859.2	828.1	862.0	1000.5	1045.8	1023.1
37.5°	811.2	836.6	811.2	633.1	604.8	638.8	771.6	831.0	802.7
40°	644.4	664.2	630.3	466.4	443.7	460.7	585.1	644.4	624.6
42.5°	508.7	522.9	486.1	342.0	316.6	339.2	440.9	494.6	483.3
45°	412.7	412.7	367.4	237.4	206.3	228.9	330.7	387.2	390.0
47.5°	353.3	344.8	288.3	158.3	118.7	149.8	262.9	322.2	330.7
50°	305.2	293.9	237.4	115.9	76.3	107.4	217.6	277.0	285.5
52.5°	262.9	254.4	197.8	90.4	53.7	82.0	183.7	240.2	248.7
55°	220.5	214.8	163.9	70.7	42.4	62.2	147.0	195.0	200.7
57.5°	180.9	172.4	132.8	59.4	33.9	50.9	121.5	161.1	166.8
60°	152.6	144.1	107.4	48.0	28.3	39.6	98.9	132.8	138.5
62.5°	127.2	118.7	87.6	39.6	22.6	33.9	79.1	107.4	113.1
65°	101.7	96.1	67.8	31.1	19.8	25.4	62.2	84.8	90.4
67.5°	82.0	76.3	53.7	25.4	17.0	19.8	48.0	67.8	73.5
70°	62.2	56.5	39.6	19.8	14.1	17.0	36.7	50.9	56.5
72.5°	45.2	42.4	31.1	17.0	11.3	14.1	25.4	36.7	42.4
75°	33.9	31.1	22.6	11.3	8.5	11.3	19.8	28.3	31.1
77.5°	22.6	22.6	17.0	8.5	8.5	8.5	14.1	19.8	19.8
80°	17.0	14.1	11.3	5.7	5.7	5.7	8.5	14.1	14.1
82.5°	11.3	8.5	8.5	5.7	5.7	5.7	5.7	8.5	8.5
85°	5.7	5.7	5.7	2.8	2.8	2.8	2.8	5.7	5.7
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)