

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: P857969

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857969
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 EU4409050 4LBMDSWMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

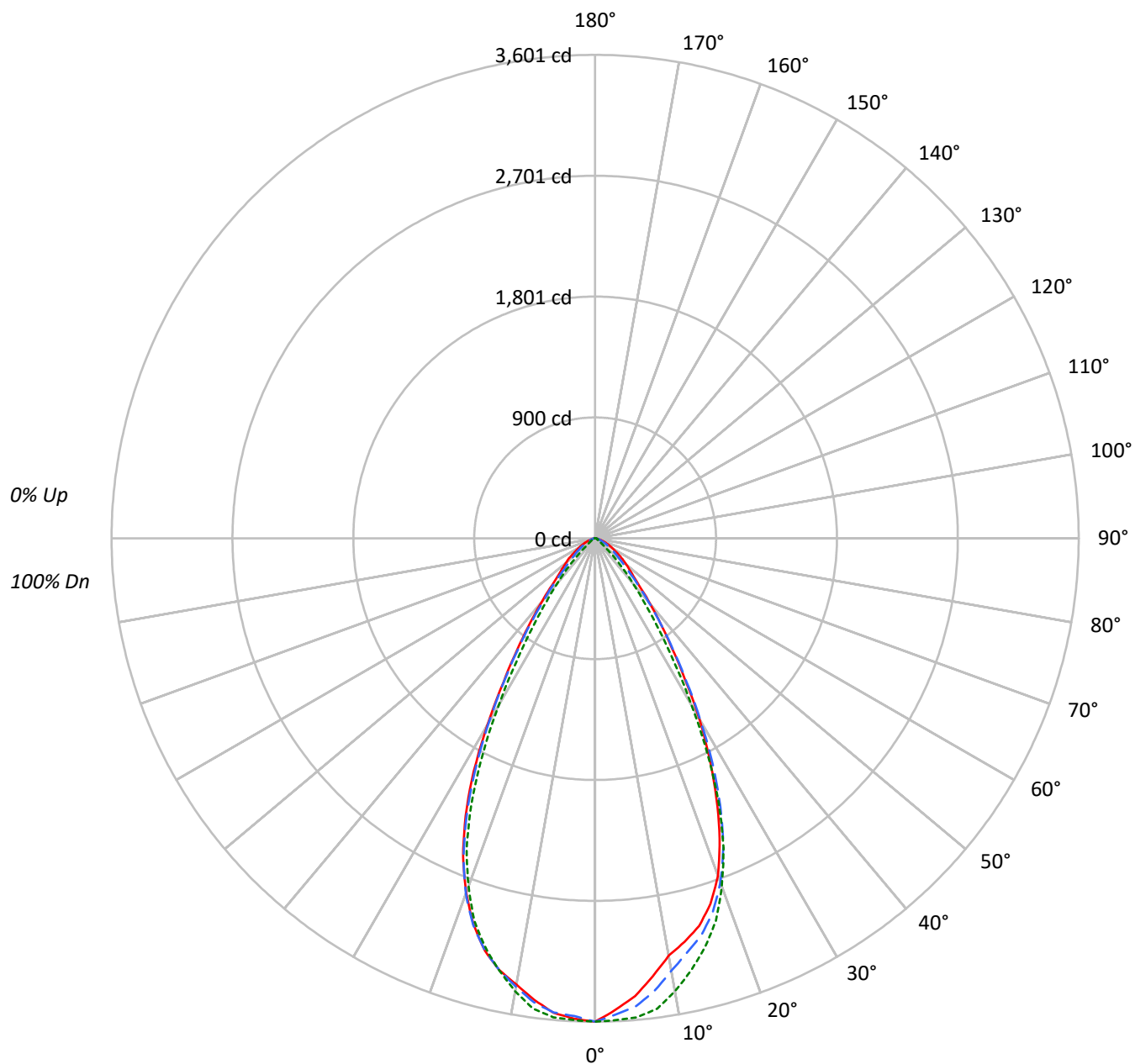
Lumens per Lamp: N/A
Luminaire Lumens: 3278.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P857969

CATALOG NUMBER: LD4C40D010 EU4409050 4LBMDSWMW

Luminous Intensity Polar Plot





TEST NUMBER: P857969

CATALOG NUMBER: LD4C40D010 EU4409050 4LBMDSWMW

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°	442371	442371	442371
5°	422121	441668	437549
10°	393694	427352	421102
15°	380175	401390	404227
20°	349711	360614	367164
25°	289855	295128	309442
30°	220491	203936	226804
35°	149287	122186	150966
40°	101677	70003	98550
45°	70539	35269	66664
50°	57395	14354	53668
55°	46457	8932	42281
60°	36905	6831	33465
65°	29099	5669	25872
70°	21983	4993	19971
75°	15854	3940	14525
80°	11815	3962	9834
85°	7894	3947	7894



TEST NUMBER: P857969

CATALOG NUMBER: LD4C40D010 EU4409050 4LBMDSWMW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	10.1
10°-20°	869.9	26.5
20°-30°	998.0	30.4
30°-40°	606.3	18.5
40°-50°	259.8	7.9
50°-60°	124.7	3.8
60°-70°	60.6	1.8
70°-80°	22.5	0.7
80°-90°	5.2	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°	2198.9	67.1
0°-40°	2805.2	85.6
0°-60°	3189.7	97.3
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3601	3601	3601	3601	3601	
5°	3423	3498	3581	3545	3548	318
15°	2989	3059	3156	3175	3178	832
25°	2138	2208	2177	2261	2283	970
35°	995	1009	815	984	1007	638
45°	406	362	203	325	384	330
55°	217	161	42	145	197	196
65°	100	67	20	61	89	102
75°	33	22	8	20	31	37
85°	6	6	3	3	6	8
90°	0	0	0	0	0	



TEST NUMBER: P857969

CATALOG NUMBER: LD4C40D010 EU4409050 4LBMDSWMW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8
2.5°	3514.6	3553.6	3550.8	3584.2	3592.5	3584.2	3561.9	3584.2	3581.4
5°	3422.9	3467.4	3498.0	3553.6	3581.4	3575.8	3545.2	3550.8	3548.0
7.5°	3289.4	3345.0	3397.9	3481.3	3534.1	3531.3	3486.8	3478.5	3467.4
10°	3155.9	3208.8	3269.9	3356.1	3425.7	3436.8	3392.3	3381.2	3375.6
12.5°	3078.1	3119.8	3161.5	3236.6	3297.8	3320.0	3295.0	3297.8	3295.0
15°	2989.1	3030.8	3058.6	3114.2	3155.9	3186.5	3175.4	3192.1	3178.2
17.5°	2855.6	2905.7	2916.8	2958.5	2989.1	3008.6	3019.7	3036.4	3014.1
20°	2674.9	2713.8	2727.7	2744.4	2758.3	2783.3	2816.7	2833.4	2808.4
22.5°	2421.9	2496.9	2494.2	2485.8	2499.7	2508.1	2560.9	2588.7	2569.2
25°	2138.3	2216.1	2207.8	2174.4	2177.2	2193.9	2260.6	2296.7	2282.8
27.5°	1840.7	1913.0	1893.6	1829.6	1812.9	1838.0	1924.2	1965.9	1957.5
30°	1554.3	1601.6	1571.0	1457.0	1437.6	1468.1	1579.4	1621.1	1598.8
32.5°	1245.7	1281.8	1267.9	1128.9	1095.5	1126.1	1256.8	1295.7	1270.7
35°	995.4	1028.8	1009.3	845.3	814.7	848.1	984.3	1028.8	1006.6
37.5°	798.0	823.0	798.0	622.8	595.0	628.4	759.1	817.5	789.7
40°	634.0	653.4	620.1	458.8	436.5	453.2	575.6	634.0	614.5
42.5°	500.5	514.4	478.3	336.4	311.4	333.7	433.8	486.6	475.5
45°	406.0	406.0	361.5	233.6	203.0	225.2	325.3	380.9	383.7
47.5°	347.6	339.2	283.6	155.7	116.8	147.4	258.6	317.0	325.3
50°	300.3	289.2	233.6	114.0	75.1	105.7	214.1	272.5	280.8
52.5°	258.6	250.3	194.6	89.0	52.8	80.6	180.7	236.3	244.7
55°	216.9	211.3	161.3	69.5	41.7	61.2	144.6	191.9	197.4
57.5°	178.0	169.6	130.7	58.4	33.4	50.1	119.6	158.5	164.1
60°	150.2	141.8	105.7	47.3	27.8	38.9	97.3	130.7	136.2
62.5°	125.1	116.8	86.2	38.9	22.2	33.4	77.9	105.7	111.2
65°	100.1	94.5	66.7	30.6	19.5	25.0	61.2	83.4	89.0
67.5°	80.6	75.1	52.8	25.0	16.7	19.5	47.3	66.7	72.3
70°	61.2	55.6	38.9	19.5	13.9	16.7	36.1	50.1	55.6
72.5°	44.5	41.7	30.6	16.7	11.1	13.9	25.0	36.1	41.7
75°	33.4	30.6	22.2	11.1	8.3	11.1	19.5	27.8	30.6
77.5°	22.2	22.2	16.7	8.3	8.3	8.3	13.9	19.5	19.5
80°	16.7	13.9	11.1	5.6	5.6	5.6	8.3	13.9	13.9
82.5°	11.1	8.3	8.3	5.6	5.6	5.6	5.6	8.3	8.3
85°	5.6	5.6	5.6	2.8	2.8	2.8	2.8	5.6	5.6
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)