

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: P857906

Luminaire Tested: **LD4C40D010 EU4409030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857906
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 4LBMDSWMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

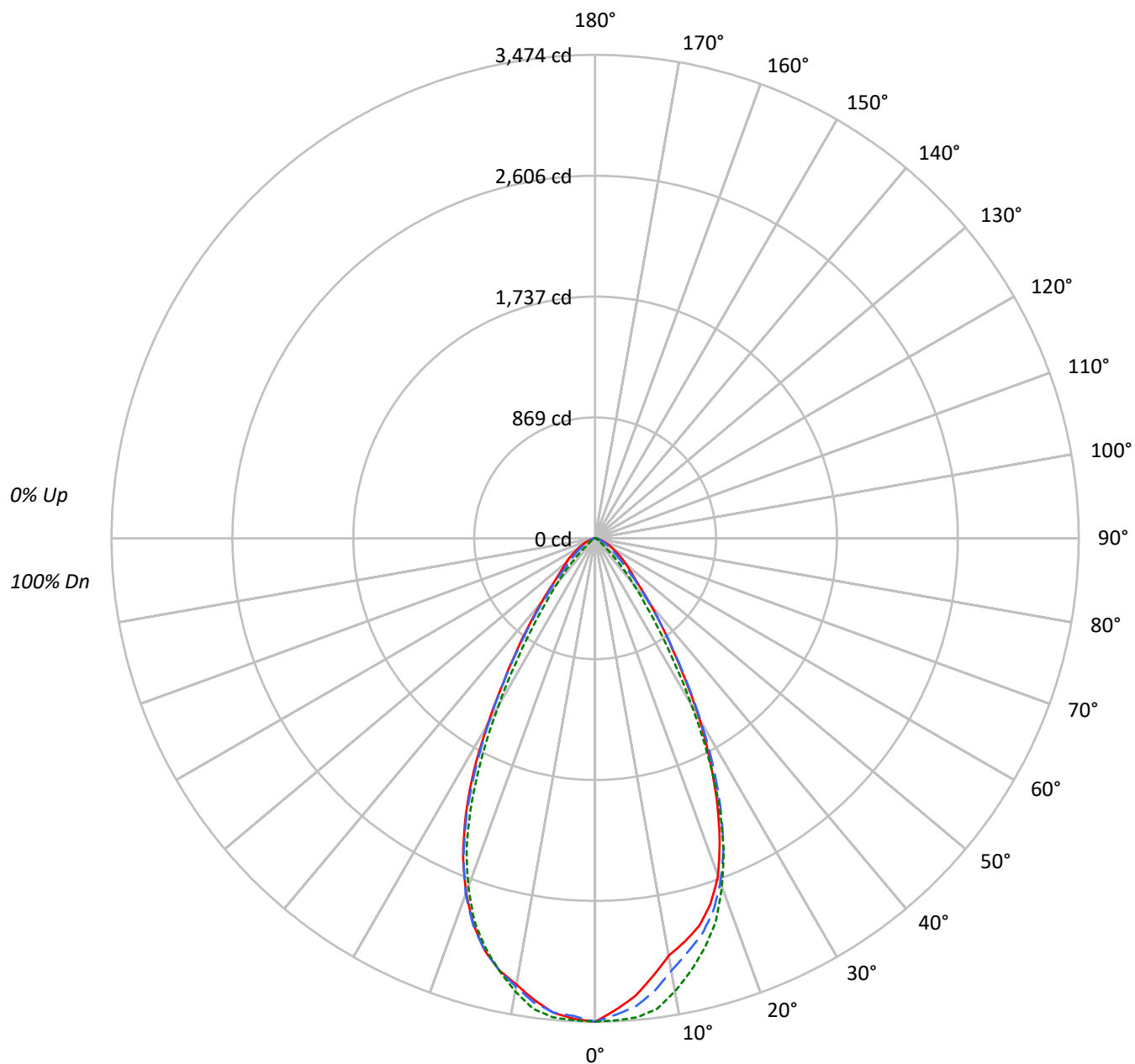
Lumens per Lamp: N/A
Luminaire Lumens: 3163.0 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	426854	426854	426854
5°	407310	426166	422195
10°	379885	412357	406331
15°	366834	387311	390045
20°	337448	347972	354274
25°	279675	284771	298598
30°	212760	196773	218846
35°	144052	117896	145672
40°	98101	67549	95086
45°	68054	34036	64336
50°	55388	13838	51795
55°	44830	8610	40803
60°	35603	6585	32310
65°	28081	5465	24971
70°	21193	4813	19289
75°	15284	3797	14003
80°	11391	3820	9480
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	10.1
10°-20°	839.3	26.5
20°-30°	963.0	30.4
30°-40°	585.0	18.5
40°-50°	250.7	7.9
50°-60°	120.3	3.8
60°-70°	58.5	1.8
70°-80°	21.7	0.7
80°-90°	5.0	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°	2121.8	67.1
0°-40°	2706.8	85.6
0°-60°	3077.8	97.3
0°-90°	3163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3163.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3474	3474	3474	3474	3474	
5°	3303	3375	3456	3421	3424	307
15°	2884	2951	3045	3064	3067	803
25°	2063	2130	2101	2181	2203	936
35°	960	974	786	950	971	616
45°	392	349	196	314	370	318
55°	209	156	40	140	190	189
65°	97	64	19	59	86	98
75°	32	22	8	19	30	35
85°	5	5	3	3	5	7
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°	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5	3474.5
2.5°	3391.3	3428.9	3426.2	3458.4	3466.5	3458.4	3436.9	3458.4	3455.7
5°	3302.8	3345.7	3375.2	3428.9	3455.7	3450.4	3420.8	3426.2	3423.5
7.5°	3174.0	3227.7	3278.6	3359.1	3410.1	3407.4	3364.5	3356.5	3345.7
10°	3045.2	3096.2	3155.2	3238.4	3305.5	3316.2	3273.3	3262.6	3257.2
12.5°	2970.1	3010.3	3050.6	3123.0	3182.1	3203.5	3179.4	3182.1	3179.4
15°	2884.2	2924.5	2951.3	3005.0	3045.2	3074.7	3064.0	3080.1	3066.7
17.5°	2755.5	2803.8	2814.5	2854.7	2884.2	2903.0	2913.8	2929.9	2908.4
20°	2581.1	2618.6	2632.0	2648.1	2661.6	2685.7	2717.9	2734.0	2709.8
22.5°	2336.9	2409.4	2406.7	2398.6	2412.0	2420.1	2471.1	2497.9	2479.1
25°	2063.2	2138.4	2130.3	2098.1	2100.8	2116.9	2181.3	2216.2	2202.8
27.5°	1776.2	1845.9	1827.1	1765.4	1749.3	1773.5	1856.6	1896.9	1888.8
30°	1499.8	1545.4	1515.9	1405.9	1387.1	1416.6	1524.0	1564.2	1542.7
32.5°	1202.0	1236.9	1223.5	1089.3	1057.1	1086.6	1212.7	1250.3	1226.1
35°	960.5	992.7	973.9	815.6	786.1	818.3	949.8	992.7	971.3
37.5°	770.0	794.2	770.0	601.0	574.2	606.4	732.5	788.8	762.0
40°	611.7	630.5	598.3	442.7	421.2	437.3	555.4	611.7	592.9
42.5°	482.9	496.4	461.5	324.6	300.5	322.0	418.6	469.5	458.8
45°	391.7	391.7	348.8	225.4	195.9	217.3	313.9	367.6	370.3
47.5°	335.4	327.3	273.7	150.2	112.7	142.2	249.5	305.9	313.9
50°	289.8	279.0	225.4	110.0	72.4	102.0	206.6	262.9	271.0
52.5°	249.5	241.5	187.8	85.9	51.0	77.8	174.4	228.1	236.1
55°	209.3	203.9	155.6	67.1	40.2	59.0	139.5	185.1	190.5
57.5°	171.7	163.7	126.1	56.3	32.2	48.3	115.4	152.9	158.3
60°	144.9	136.8	102.0	45.6	26.8	37.6	93.9	126.1	131.5
62.5°	120.7	112.7	83.2	37.6	21.5	32.2	75.1	102.0	107.3
65°	96.6	91.2	64.4	29.5	18.8	24.1	59.0	80.5	85.9
67.5°	77.8	72.4	51.0	24.1	16.1	18.8	45.6	64.4	69.8
70°	59.0	53.7	37.6	18.8	13.4	16.1	34.9	48.3	53.7
72.5°	42.9	40.2	29.5	16.1	10.7	13.4	24.1	34.9	40.2
75°	32.2	29.5	21.5	10.7	8.0	10.7	18.8	26.8	29.5
77.5°	21.5	21.5	16.1	8.0	8.0	8.0	13.4	18.8	18.8
80°	16.1	13.4	10.7	5.4	5.4	5.4	8.0	13.4	13.4
82.5°	10.7	8.0	8.0	5.4	5.4	5.4	5.4	8.0	8.0
85°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)