

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: P857928

Luminaire Tested: **LD4C40D010 EU4409035 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857928
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 EU4409035 4LBMDSWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

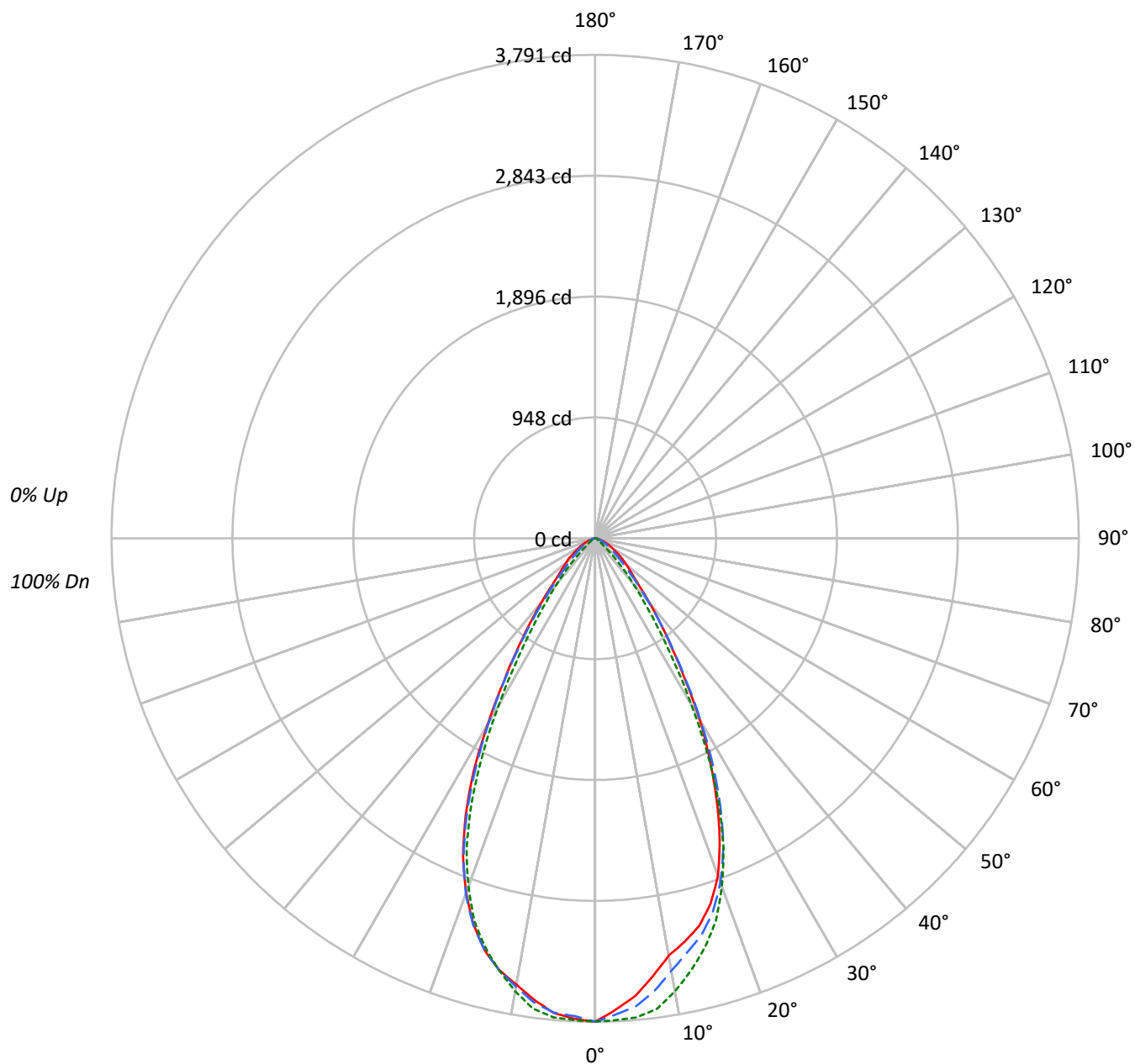
Lumens per Lamp: N/A
Luminaire Lumens: 3451.0 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	465725	465725	465725
5°	444394	464976	460647
10°	414478	449906	443332
15°	400246	422580	425556
20°	368171	379650	386540
25°	305145	310703	325776
30°	232138	214689	238777
35°	157175	128635	158930
40°	107033	73708	103746
45°	74257	37128	70191
50°	60434	15099	56516
55°	48899	9403	44508
60°	38846	7199	35234
65°	30639	5959	27238
70°	23132	5244	21013
75°	16661	4177	15284
80°	12452	4174	10329
85°	8317	4088	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.5	10.1
10°-20°	915.8	26.5
20°-30°	1050.7	30.4
30°-40°	638.3	18.5
40°-50°	273.5	7.9
50°-60°	131.2	3.8
60°-70°	63.8	1.8
70°-80°	23.7	0.7
80°-90°	5.5	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°	2315.0	67.1
0°-40°	2953.3	85.6
0°-60°	3358.1	97.3
0°-90°	3451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3791	3791	3791	3791	3791	
5°	3604	3683	3770	3732	3735	335
15°	3147	3220	3322	3343	3346	876
25°	2251	2324	2292	2380	2403	1021
35°	1048	1063	858	1036	1060	672
45°	427	381	214	342	404	347
55°	228	170	44	152	208	206
65°	105	70	20	64	94	107
75°	35	23	9	20	32	39
85°	6	6	3	3	6	8
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°	3790.9	3790.9	3790.9	3790.9	3790.9	3790.9	3790.9	3790.9	3790.9
2.5°	3700.1	3741.1	3738.2	3773.3	3782.1	3773.3	3749.9	3773.3	3770.4
5°	3603.5	3650.4	3682.6	3741.1	3770.4	3764.5	3732.3	3738.2	3735.3
7.5°	3463.0	3521.6	3577.2	3665.0	3720.6	3717.7	3670.9	3662.1	3650.4
10°	3322.5	3378.1	3442.5	3533.3	3606.5	3618.2	3571.3	3559.6	3553.8
12.5°	3240.5	3284.4	3328.4	3407.4	3471.8	3495.2	3468.9	3471.8	3468.9
15°	3146.9	3190.8	3220.0	3278.6	3322.5	3354.7	3343.0	3360.6	3345.9
17.5°	3006.4	3059.0	3070.8	3114.7	3146.9	3167.4	3179.1	3196.6	3173.2
20°	2816.1	2857.1	2871.7	2889.3	2903.9	2930.2	2965.4	2982.9	2956.6
22.5°	2549.7	2628.7	2625.8	2617.0	2631.7	2640.4	2696.1	2725.3	2704.8
25°	2251.1	2333.1	2324.3	2289.2	2292.1	2309.7	2379.9	2418.0	2403.3
27.5°	1937.9	2014.0	1993.5	1926.2	1908.6	1935.0	2025.7	2069.6	2060.8
30°	1636.4	1686.1	1653.9	1533.9	1513.4	1545.6	1662.7	1706.6	1683.2
32.5°	1311.4	1349.5	1334.9	1188.5	1153.4	1185.6	1323.1	1364.1	1337.8
35°	1048.0	1083.1	1062.6	889.9	857.7	892.8	1036.3	1083.1	1059.7
37.5°	840.1	866.5	840.1	655.7	626.4	661.6	799.2	860.6	831.4
40°	667.4	687.9	652.8	483.0	459.6	477.2	606.0	667.4	646.9
42.5°	526.9	541.6	503.5	354.2	327.9	351.3	456.7	512.3	500.6
45°	427.4	427.4	380.6	245.9	213.7	237.1	342.5	401.0	404.0
47.5°	365.9	357.1	298.6	163.9	122.9	155.1	272.2	333.7	342.5
50°	316.2	304.4	245.9	120.0	79.0	111.2	225.4	286.9	295.7
52.5°	272.2	263.5	204.9	93.7	55.6	84.9	190.3	248.8	257.6
55°	228.3	222.5	169.8	73.2	43.9	64.4	152.2	202.0	207.8
57.5°	187.3	178.6	137.6	61.5	35.1	52.7	125.9	166.9	172.7
60°	158.1	149.3	111.2	49.8	29.3	41.0	102.5	137.6	143.4
62.5°	131.7	122.9	90.7	41.0	23.4	35.1	82.0	111.2	117.1
65°	105.4	99.5	70.3	32.2	20.5	26.3	64.4	87.8	93.7
67.5°	84.9	79.0	55.6	26.3	17.6	20.5	49.8	70.3	76.1
70°	64.4	58.5	41.0	20.5	14.6	17.6	38.1	52.7	58.5
72.5°	46.8	43.9	32.2	17.6	11.7	14.6	26.3	38.1	43.9
75°	35.1	32.2	23.4	11.7	8.8	11.7	20.5	29.3	32.2
77.5°	23.4	23.4	17.6	8.8	8.8	8.8	14.6	20.5	20.5
80°	17.6	14.6	11.7	5.9	5.9	5.9	8.8	14.6	14.6
82.5°	11.7	8.8	8.8	5.9	5.9	5.9	5.9	8.8	8.8
85°	5.9	5.9	5.9	2.9	2.9	2.9	2.9	5.9	5.9
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)