

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: P857945

Luminaire Tested: **LD4C40D010 EU4409040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857945
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 EU4409040 4LBMDSWGPH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

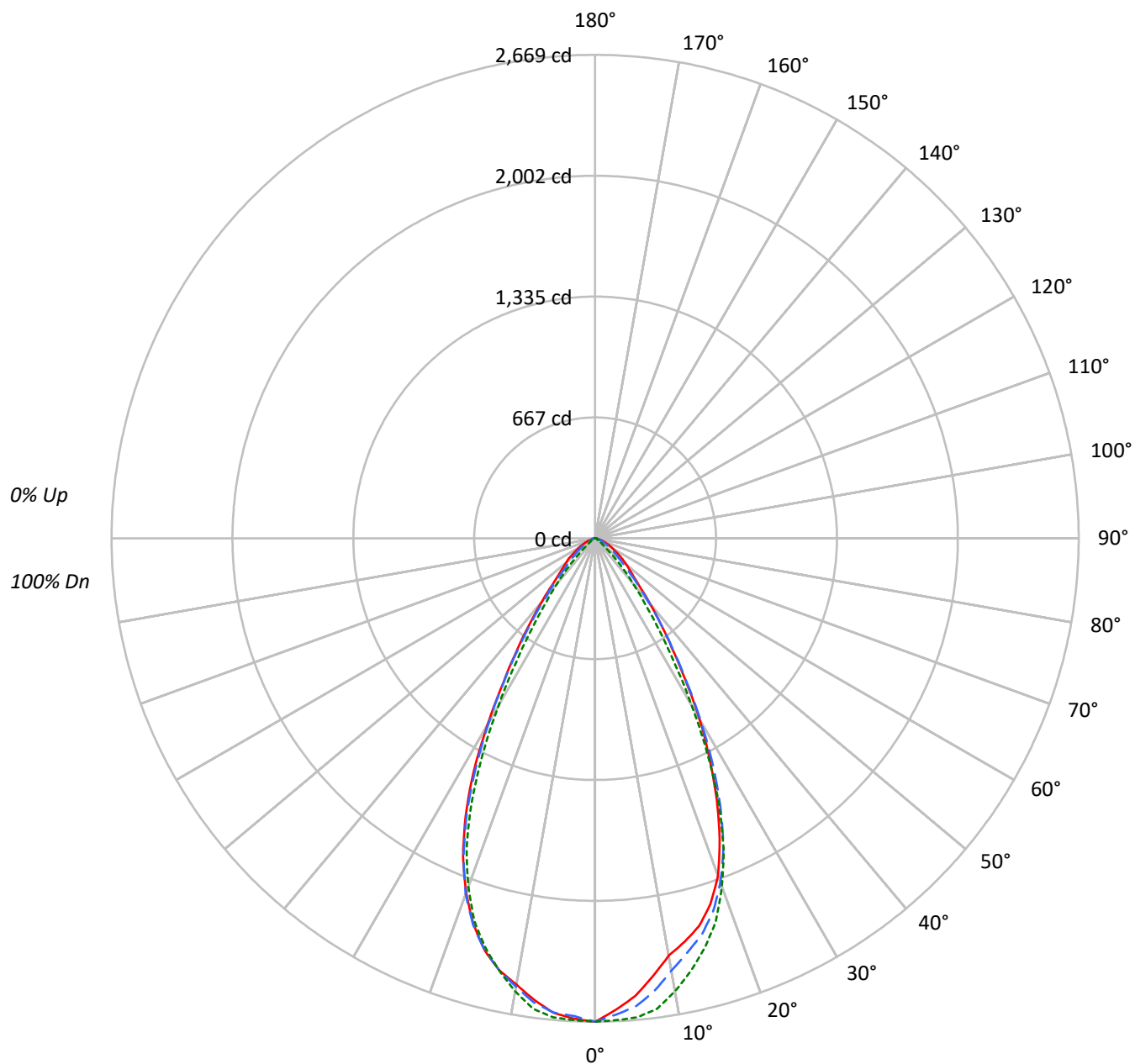
Lumens per Lamp: N/A
Luminaire Lumens: 2430.0 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	327933	327933	327933
5°	312919	327410	324364
10°	291850	316799	312171
15°	281822	297555	299653
20°	259240	267333	272183
25°	214866	218784	229398
30°	163450	151179	168131
35°	110668	90571	111912
40°	75376	51897	73050
45°	52279	26148	49429
50°	42545	10646	39792
55°	34442	6618	31336
60°	27347	5062	24816
65°	21570	4186	19186
70°	16272	3700	14799
75°	11724	2943	10775
80°	8773	2901	7287
85°	5779	2960	5779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	10.1
10°-20°	644.8	26.5
20°-30°	739.8	30.4
30°-40°	449.4	18.5
40°-50°	192.6	7.9
50°-60°	92.4	3.8
60°-70°	44.9	1.8
70°-80°	16.7	0.7
80°-90°	3.8	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°	1630.1	67.1
0°-40°	2079.5	85.6
0°-60°	2364.6	97.3
0°-90°	2430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2669	2669	2669	2669	2669	
5°	2537	2593	2655	2628	2630	236
15°	2216	2267	2340	2354	2356	617
25°	1585	1637	1614	1676	1692	719
35°	738	748	604	730	746	473
45°	301	268	150	241	284	244
55°	161	120	31	107	146	145
65°	74	50	14	45	66	75
75°	25	16	6	14	23	27
85°	4	4	2	2	4	6
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°	2669.3	2669.3	2669.3	2669.3	2669.3	2669.3	2669.3	2669.3	2669.3
2.5°	2605.4	2634.3	2632.2	2657.0	2663.1	2657.0	2640.5	2657.0	2654.9
5°	2537.4	2570.4	2593.1	2634.3	2654.9	2650.8	2628.1	2632.2	2630.2
7.5°	2438.5	2479.7	2518.8	2580.7	2619.8	2617.8	2584.8	2578.6	2570.4
10°	2339.5	2378.7	2424.0	2487.9	2539.5	2547.7	2514.7	2506.5	2502.4
12.5°	2281.8	2312.7	2343.6	2399.3	2444.6	2461.1	2442.6	2444.6	2442.6
15°	2215.8	2246.8	2267.4	2308.6	2339.5	2362.2	2353.9	2366.3	2356.0
17.5°	2116.9	2154.0	2162.3	2193.2	2215.8	2230.3	2238.5	2250.9	2234.4
20°	1982.9	2011.8	2022.1	2034.5	2044.8	2063.3	2088.0	2100.4	2081.9
22.5°	1795.3	1851.0	1848.9	1842.8	1853.1	1859.2	1898.4	1919.0	1904.6
25°	1585.1	1642.8	1636.6	1611.9	1614.0	1626.3	1675.8	1702.6	1692.3
27.5°	1364.5	1418.1	1403.7	1356.3	1343.9	1362.5	1426.4	1457.3	1451.1
30°	1152.2	1187.3	1164.6	1080.1	1065.7	1088.3	1170.8	1201.7	1185.2
32.5°	923.4	950.2	939.9	836.9	812.1	834.8	931.7	960.5	942.0
35°	737.9	762.7	748.2	626.6	603.9	628.7	729.7	762.7	746.2
37.5°	591.6	610.1	591.6	461.7	441.1	465.8	562.7	606.0	585.4
40°	470.0	484.4	459.7	340.1	323.6	336.0	426.7	470.0	455.5
42.5°	371.0	381.3	354.5	249.4	230.9	247.4	321.6	360.7	352.5
45°	300.9	300.9	268.0	173.1	150.5	167.0	241.2	282.4	284.5
47.5°	257.7	251.5	210.2	115.4	86.6	109.2	191.7	235.0	241.2
50°	222.6	214.4	173.1	84.5	55.7	78.3	158.7	202.0	208.2
52.5°	191.7	185.5	144.3	66.0	39.2	59.8	134.0	175.2	181.4
55°	160.8	156.7	119.6	51.5	30.9	45.3	107.2	142.2	146.3
57.5°	131.9	125.7	96.9	43.3	24.7	37.1	88.6	117.5	121.6
60°	111.3	105.1	78.3	35.0	20.6	28.9	72.1	96.9	101.0
62.5°	92.8	86.6	63.9	28.9	16.5	24.7	57.7	78.3	82.5
65°	74.2	70.1	49.5	22.7	14.4	18.6	45.3	61.8	66.0
67.5°	59.8	55.7	39.2	18.6	12.4	14.4	35.0	49.5	53.6
70°	45.3	41.2	28.9	14.4	10.3	12.4	26.8	37.1	41.2
72.5°	33.0	30.9	22.7	12.4	8.2	10.3	18.6	26.8	30.9
75°	24.7	22.7	16.5	8.2	6.2	8.2	14.4	20.6	22.7
77.5°	16.5	16.5	12.4	6.2	6.2	6.2	10.3	14.4	14.4
80°	12.4	10.3	8.2	4.1	4.1	4.1	6.2	10.3	10.3
82.5°	8.2	6.2	6.2	4.1	4.1	4.1	4.1	6.2	6.2
85°	4.1	4.1	4.1	2.1	2.1	2.1	2.1	4.1	4.1
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)