

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: P857730

Luminaire Tested: **LD4C35D010 EU4359030 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857730
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: LD4C35D010 EU4359030 4LBMDSWMW
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

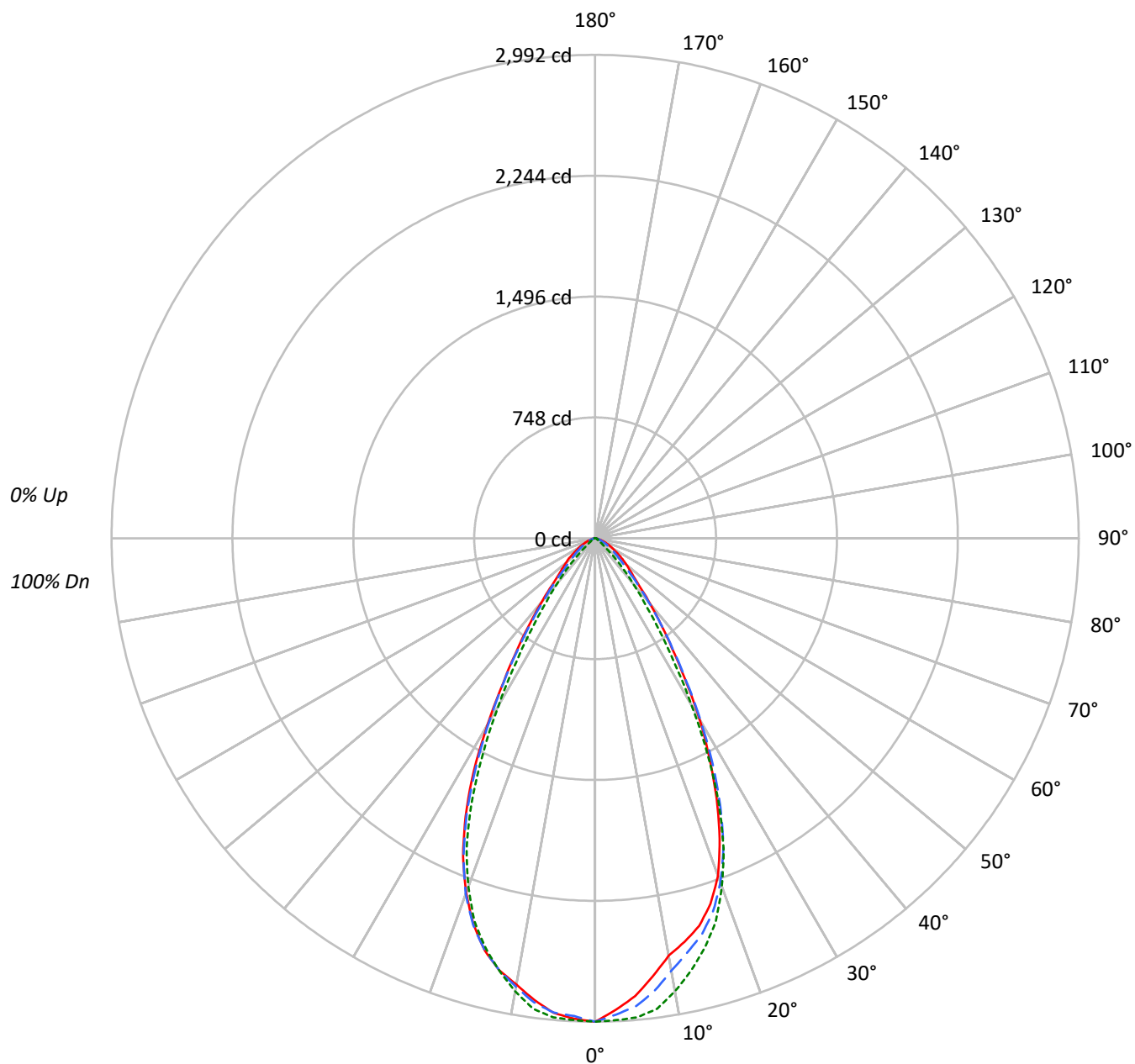
Lumens per Lamp: N/A
Luminaire Lumens: 2724.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	367614	367614	367614
5°	350779	367021	363605
10°	327166	355122	349933
15°	315920	333561	335914
20°	290604	299678	305103
25°	240866	245244	257146
30°	183225	169465	188474
35°	124060	101534	125455
40°	84485	58184	81903
45°	58620	29310	55406
50°	47686	11926	44609
55°	38597	7432	35148
60°	30664	5676	27814
65°	24186	4709	21482
70°	18247	4167	16595
75°	13148	3275	12057
80°	9834	3254	8207
85°	6484	3242	6484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.1	10.1
10°-20°	722.8	26.5
20°-30°	829.3	30.4
30°-40°	503.8	18.5
40°-50°	215.9	7.9
50°-60°	103.6	3.8
60°-70°	50.4	1.8
70°-80°	18.7	0.7
80°-90°	4.3	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°	1827.3	67.1
0°-40°	2331.1	85.6
0°-60°	2650.6	97.3
0°-90°	2724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2724.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2992	2992	2992	2992	2992	
5°	2844	2907	2976	2946	2948	264
15°	2484	2542	2623	2639	2641	692
25°	1777	1835	1809	1878	1897	806
35°	827	839	677	818	836	530
45°	337	300	169	270	319	274
55°	180	134	35	120	164	163
65°	83	56	16	51	74	84
75°	28	18	7	16	25	30
85°	5	5	2	2	5	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°	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3	2992.3
2.5°	2920.6	2953.0	2950.7	2978.4	2985.3	2978.4	2959.9	2978.4	2976.1
5°	2844.4	2881.4	2906.8	2953.0	2976.1	2971.5	2946.1	2950.7	2948.4
7.5°	2733.5	2779.7	2823.6	2892.9	2936.8	2934.5	2897.5	2890.6	2881.4
10°	2622.6	2666.5	2717.3	2788.9	2846.7	2855.9	2819.0	2809.7	2805.1
12.5°	2557.9	2592.5	2627.2	2689.6	2740.4	2758.9	2738.1	2740.4	2738.1
15°	2483.9	2518.6	2541.7	2587.9	2622.6	2648.0	2638.7	2652.6	2641.1
17.5°	2373.0	2414.6	2423.9	2458.5	2483.9	2500.1	2509.4	2523.2	2504.7
20°	2222.8	2255.2	2266.7	2280.6	2292.2	2312.9	2340.7	2354.5	2333.7
22.5°	2012.6	2075.0	2072.6	2065.7	2077.3	2084.2	2128.1	2151.2	2135.0
25°	1776.9	1841.6	1834.6	1806.9	1809.2	1823.1	1878.5	1908.6	1897.0
27.5°	1529.6	1589.7	1573.5	1520.4	1506.5	1527.3	1599.0	1633.6	1626.7
30°	1291.6	1330.9	1305.5	1210.8	1194.6	1220.0	1312.4	1347.1	1328.6
32.5°	1035.2	1065.2	1053.7	938.1	910.4	935.8	1044.4	1076.8	1056.0
35°	827.2	854.9	838.8	702.4	677.0	704.7	818.0	854.9	836.5
37.5°	663.2	683.9	663.2	517.6	494.5	522.2	630.8	679.3	656.2
40°	526.8	543.0	515.3	381.3	362.8	376.6	478.3	526.8	510.7
42.5°	415.9	427.5	397.4	279.6	258.8	277.3	360.5	404.4	395.1
45°	337.4	337.4	300.4	194.1	168.7	187.2	270.3	316.6	318.9
47.5°	288.8	281.9	235.7	129.4	97.0	122.5	214.9	263.4	270.3
50°	249.5	240.3	194.1	94.7	62.4	87.8	177.9	226.4	233.4
52.5°	214.9	208.0	161.7	73.9	43.9	67.0	150.2	196.4	203.3
55°	180.2	175.6	134.0	57.8	34.7	50.8	120.2	159.4	164.1
57.5°	147.9	140.9	108.6	48.5	27.7	41.6	99.4	131.7	136.3
60°	124.8	117.8	87.8	39.3	23.1	32.3	80.9	108.6	113.2
62.5°	104.0	97.0	71.6	32.3	18.5	27.7	64.7	87.8	92.4
65°	83.2	78.6	55.5	25.4	16.2	20.8	50.8	69.3	73.9
67.5°	67.0	62.4	43.9	20.8	13.9	16.2	39.3	55.5	60.1
70°	50.8	46.2	32.3	16.2	11.6	13.9	30.0	41.6	46.2
72.5°	37.0	34.7	25.4	13.9	9.2	11.6	20.8	30.0	34.7
75°	27.7	25.4	18.5	9.2	6.9	9.2	16.2	23.1	25.4
77.5°	18.5	18.5	13.9	6.9	6.9	6.9	11.6	16.2	16.2
80°	13.9	11.6	9.2	4.6	4.6	4.6	6.9	11.6	11.6
82.5°	9.2	6.9	6.9	4.6	4.6	4.6	4.6	6.9	6.9
85°	4.6	4.6	4.6	2.3	2.3	2.3	2.3	4.6	4.6
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
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)