

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: P858947

Luminaire Tested: **LD4C50D010 EU4509027 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858947
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: LD4C50D010 EU4509027 4LBMDDWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

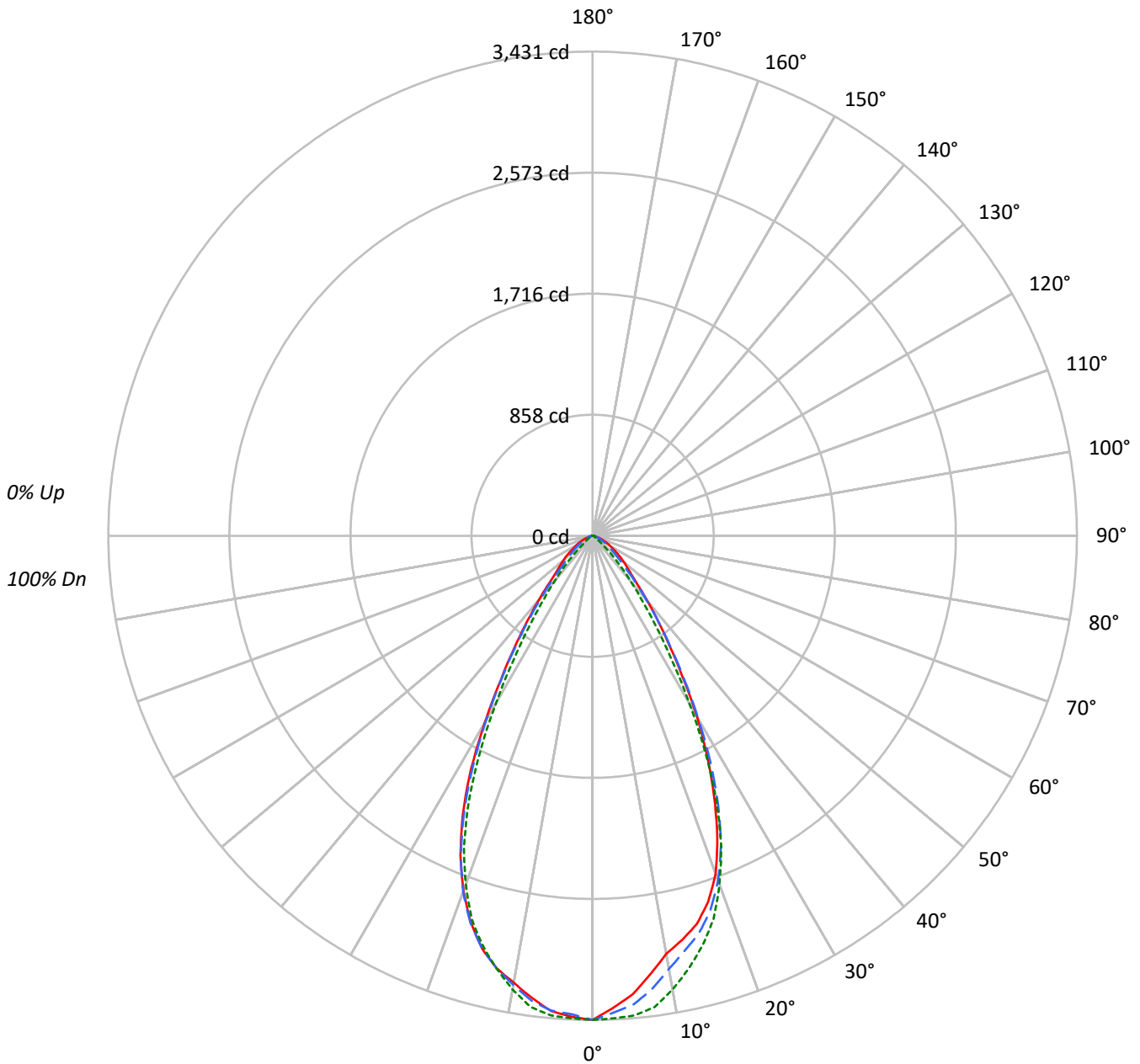
Lumens per Lamp: N/A
Luminaire Lumens: 3122.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	421461	421461	421461
5°	402156	420777	416856
10°	375082	407142	401192
15°	362204	382414	385110
20°	333173	343566	349802
25°	276137	281166	294816
30°	210065	194290	216080
35°	142238	116412	143827
40°	96866	66699	93883
45°	67203	33602	63520
50°	54681	13666	51145
55°	44251	8503	40289
60°	35161	6511	31893
65°	27732	5378	24651
70°	20941	4741	19038
75°	15094	3750	13813
80°	11249	3750	9339
85°	7471	3665	7471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.4	10.1
10°-20°	828.7	26.5
20°-30°	950.8	30.4
30°-40°	577.6	18.5
40°-50°	247.5	7.9
50°-60°	118.8	3.8
60°-70°	57.7	1.8
70°-80°	21.4	0.7
80°-90°	4.9	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°	2095.0	67.1
0°-40°	2672.6	85.6
0°-60°	3038.9	97.3
0°-90°	3122.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3122.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3431	3431	3431	3431	3431	
5°	3261	3333	3412	3378	3380	303
15°	2848	2914	3007	3025	3028	793
25°	2037	2103	2074	2154	2175	924
35°	948	962	776	938	959	608
45°	387	344	193	310	366	314
55°	207	154	40	138	188	186
65°	95	64	18	58	85	97
75°	32	21	8	18	29	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°	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6	3430.6
2.5°	3348.4	3385.5	3382.9	3414.7	3422.6	3414.7	3393.5	3414.7	3412.0
5°	3261.0	3303.4	3332.6	3385.5	3412.0	3406.7	3377.6	3382.9	3380.2
7.5°	3133.9	3186.9	3237.2	3316.7	3367.0	3364.3	3322.0	3314.0	3303.4
10°	3006.7	3057.0	3115.3	3197.5	3263.7	3274.3	3231.9	3221.3	3216.0
12.5°	2932.5	2972.3	3012.0	3083.5	3141.8	3163.0	3139.2	3141.8	3139.2
15°	2847.8	2887.5	2914.0	2967.0	3006.7	3035.9	3025.3	3041.2	3027.9
17.5°	2720.6	2768.3	2778.9	2818.6	2847.8	2866.3	2876.9	2892.8	2871.6
20°	2548.4	2585.5	2598.8	2614.7	2627.9	2651.7	2683.5	2699.4	2675.6
22.5°	2307.4	2378.9	2376.2	2368.3	2381.5	2389.5	2439.8	2466.3	2447.8
25°	2037.1	2111.3	2103.4	2071.6	2074.2	2090.1	2153.7	2188.1	2174.9
27.5°	1753.7	1822.6	1804.0	1743.1	1727.2	1751.0	1833.2	1872.9	1865.0
30°	1480.8	1525.9	1496.7	1388.1	1369.6	1398.7	1504.7	1544.4	1523.2
32.5°	1186.8	1221.2	1208.0	1075.5	1043.7	1072.9	1197.4	1234.5	1210.6
35°	948.4	980.2	961.6	805.3	776.2	808.0	937.8	980.2	959.0
37.5°	760.3	784.1	760.3	593.4	566.9	598.7	723.2	778.8	752.3
40°	604.0	622.5	590.7	437.1	415.9	431.8	548.4	604.0	585.4
42.5°	476.8	490.1	455.6	320.5	296.7	317.9	413.3	463.6	453.0
45°	386.8	386.8	344.4	222.5	193.4	214.6	309.9	362.9	365.6
47.5°	331.1	323.2	270.2	148.3	111.3	140.4	246.4	302.0	309.9
50°	286.1	275.5	222.5	108.6	71.5	100.7	204.0	259.6	267.6
52.5°	246.4	238.4	185.4	84.8	50.3	76.8	172.2	225.2	233.1
55°	206.6	201.3	153.6	66.2	39.7	58.3	137.8	182.8	188.1
57.5°	169.5	161.6	124.5	55.6	31.8	47.7	113.9	151.0	156.3
60°	143.1	135.1	100.7	45.0	26.5	37.1	92.7	124.5	129.8
62.5°	119.2	111.3	82.1	37.1	21.2	31.8	74.2	100.7	106.0
65°	95.4	90.1	63.6	29.1	18.5	23.8	58.3	79.5	84.8
67.5°	76.8	71.5	50.3	23.8	15.9	18.5	45.0	63.6	68.9
70°	58.3	53.0	37.1	18.5	13.2	15.9	34.4	47.7	53.0
72.5°	42.4	39.7	29.1	15.9	10.6	13.2	23.8	34.4	39.7
75°	31.8	29.1	21.2	10.6	7.9	10.6	18.5	26.5	29.1
77.5°	21.2	21.2	15.9	7.9	7.9	7.9	13.2	18.5	18.5
80°	15.9	13.2	10.6	5.3	5.3	5.3	7.9	13.2	13.2
82.5°	10.6	7.9	7.9	5.3	5.3	5.3	5.3	7.9	7.9
85°	5.3	5.3	5.3	2.6	2.6	2.6	2.6	5.3	5.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)