

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: P858967

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858967
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 EU4509030 4LBMDDWLI
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

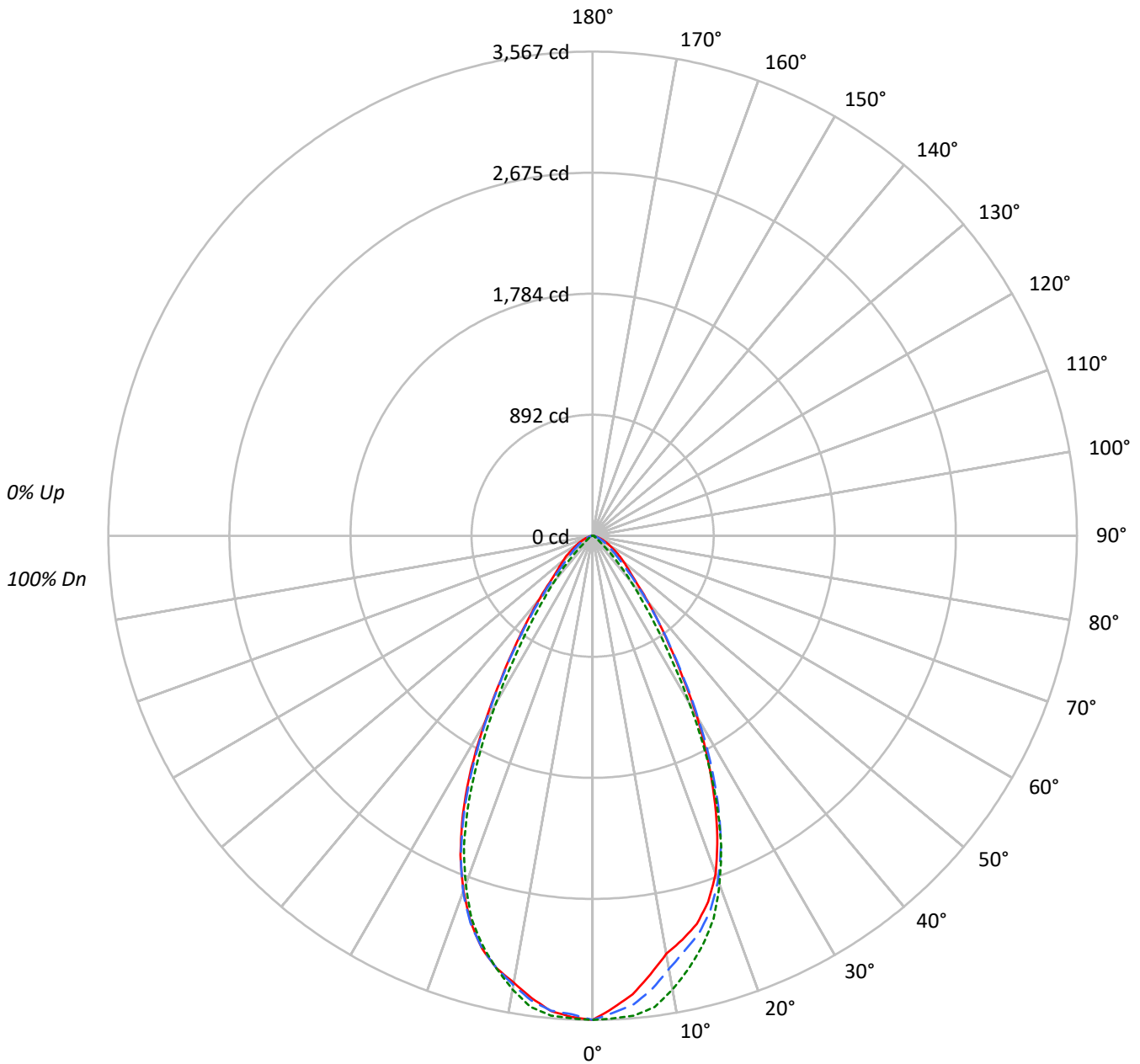
Lumens per Lamp: N/A
Luminaire Lumens: 3247.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	438194	438194	438194
5°	418126	437487	433418
10°	389977	423310	417122
15°	376576	397600	400398
20°	346403	357202	363687
25°	287103	292335	306528
30°	218406	202007	224662
35°	147877	121031	149526
40°	100715	69346	97620
45°	69861	34939	66039
50°	56860	14220	53171
55°	46008	8846	41895
60°	36537	6757	33170
65°	28837	5610	25610
70°	21767	4957	19792
75°	15712	3940	14382
80°	11674	3891	9763
85°	7753	3947	7753



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.9	10.1
10°-20°	861.6	26.5
20°-30°	988.6	30.4
30°-40°	600.6	18.5
40°-50°	257.4	7.9
50°-60°	123.5	3.8
60°-70°	60.0	1.8
70°-80°	22.3	0.7
80°-90°	5.2	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°	2178.2	67.1
0°-40°	2778.7	85.6
0°-60°	3159.6	97.3
0°-90°	3247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3567	3567	3567	3567	3567	
5°	3390	3465	3548	3512	3514	315
15°	2961	3030	3126	3145	3148	824
25°	2118	2187	2157	2239	2261	961
35°	986	1000	807	975	997	632
45°	402	358	201	322	380	327
55°	215	160	41	143	196	194
65°	99	66	19	61	88	101
75°	33	22	8	19	30	36
85°	6	6	3	3	6	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°	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8	3566.8
2.5°	3481.4	3520.0	3517.2	3550.3	3558.5	3550.3	3528.2	3550.3	3547.5
5°	3390.5	3434.6	3464.9	3520.0	3547.5	3542.0	3511.7	3517.2	3514.5
7.5°	3258.3	3313.4	3365.7	3448.3	3500.7	3497.9	3453.9	3445.6	3434.6
10°	3126.1	3178.4	3239.0	3324.4	3393.3	3404.3	3360.2	3349.2	3343.7
12.5°	3049.0	3090.3	3131.6	3206.0	3266.6	3288.6	3263.8	3266.6	3263.8
15°	2960.8	3002.2	3029.7	3084.8	3126.1	3156.4	3145.4	3161.9	3148.1
17.5°	2828.6	2878.2	2889.2	2930.5	2960.8	2980.1	2991.1	3007.7	2985.6
20°	2649.6	2688.2	2701.9	2718.5	2732.2	2757.0	2790.1	2806.6	2781.8
22.5°	2399.0	2473.3	2470.6	2462.3	2476.1	2484.4	2536.7	2564.2	2544.9
25°	2118.0	2195.2	2186.9	2153.8	2156.6	2173.1	2239.2	2275.0	2261.3
27.5°	1823.3	1894.9	1875.7	1812.3	1795.8	1820.6	1906.0	1947.3	1939.0
30°	1539.6	1586.5	1556.2	1443.2	1424.0	1454.3	1564.4	1605.7	1583.7
32.5°	1233.9	1269.7	1255.9	1118.2	1085.2	1115.5	1244.9	1283.5	1258.7
35°	986.0	1019.1	999.8	837.3	807.0	840.1	975.0	1019.1	997.0
37.5°	790.5	815.3	790.5	617.0	589.4	622.5	751.9	809.8	782.2
40°	628.0	647.3	614.2	454.5	432.4	448.9	570.1	628.0	608.7
42.5°	495.8	509.5	473.7	333.3	308.5	330.5	429.7	482.0	471.0
45°	402.1	402.1	358.1	231.4	201.1	223.1	322.2	377.3	380.1
47.5°	344.3	336.0	280.9	154.2	115.7	146.0	256.1	314.0	322.2
50°	297.5	286.4	231.4	112.9	74.4	104.7	212.1	269.9	278.2
52.5°	256.1	247.9	192.8	88.1	52.3	79.9	179.0	234.1	242.4
55°	214.8	209.3	159.7	68.9	41.3	60.6	143.2	190.0	195.6
57.5°	176.3	168.0	129.5	57.8	33.1	49.6	118.4	157.0	162.5
60°	148.7	140.5	104.7	46.8	27.5	38.6	96.4	129.5	135.0
62.5°	123.9	115.7	85.4	38.6	22.0	33.1	77.1	104.7	110.2
65°	99.2	93.6	66.1	30.3	19.3	24.8	60.6	82.6	88.1
67.5°	79.9	74.4	52.3	24.8	16.5	19.3	46.8	66.1	71.6
70°	60.6	55.1	38.6	19.3	13.8	16.5	35.8	49.6	55.1
72.5°	44.1	41.3	30.3	16.5	11.0	13.8	24.8	35.8	41.3
75°	33.1	30.3	22.0	11.0	8.3	11.0	19.3	27.5	30.3
77.5°	22.0	22.0	16.5	8.3	8.3	8.3	13.8	19.3	19.3
80°	16.5	13.8	11.0	5.5	5.5	5.5	8.3	13.8	13.8
82.5°	11.0	8.3	8.3	5.5	5.5	5.5	5.5	8.3	8.3
85°	5.5	5.5	5.5	2.8	2.8	2.8	2.8	5.5	5.5
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)