

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: P858117

Luminaire Tested: **LD4C45D010 EU4459030 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P858117
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: LD4C45D010 EU4459030 4LBMDDWLI
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

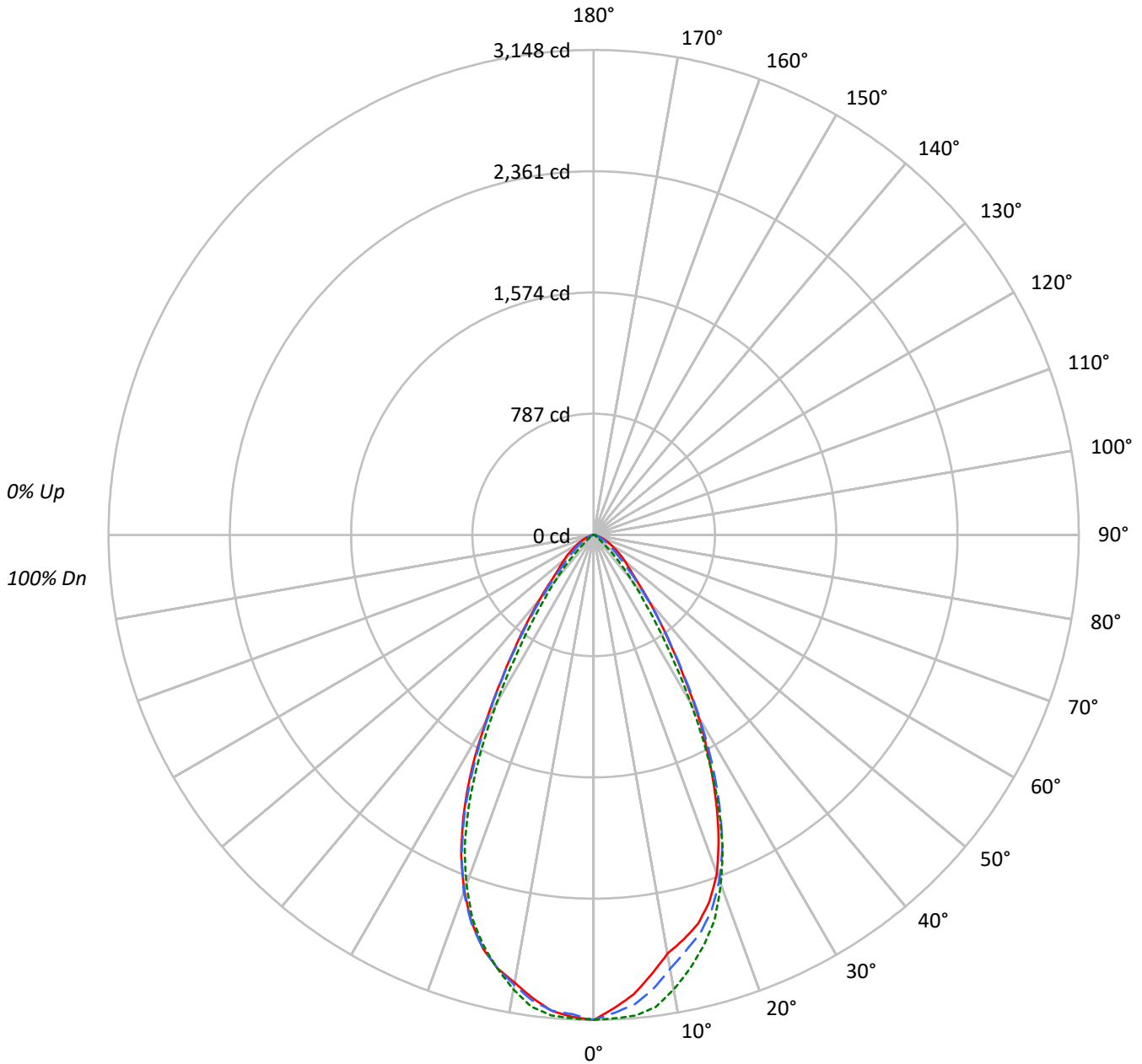
Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 57.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	386780	386780	386780
5°	369068	386148	382560
10°	344219	373635	368171
15°	332391	350948	353415
20°	305757	315288	321014
25°	253418	258027	270552
30°	192786	178303	198305
35°	130524	106828	131994
40°	88895	61215	86169
45°	61661	30839	58290
50°	50190	12538	46921
55°	40610	7818	36969
60°	32261	5971	29264
65°	25436	4942	22616
70°	19217	4382	17457
75°	13860	3465	12674
80°	10329	3467	8631
85°	6907	3383	6907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	10.1
10°-20°	760.5	26.5
20°-30°	872.6	30.4
30°-40°	530.1	18.5
40°-50°	227.2	7.9
50°-60°	109.0	3.8
60°-70°	53.0	1.8
70°-80°	19.7	0.7
80°-90°	4.5	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°	1922.6	67.1
0°-40°	2452.7	85.6
0°-60°	2788.8	97.3
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3148	3148	3148	3148	3148	
5°	2993	3058	3131	3100	3102	278
15°	2613	2674	2759	2776	2779	728
25°	1870	1930	1904	1976	1996	848
35°	870	882	712	861	880	558
45°	355	316	178	284	336	288
55°	190	141	36	126	173	171
65°	88	58	17	54	78	89
75°	29	19	7	17	27	32
85°	5	5	2	2	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°	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3
2.5°	3072.9	3106.9	3104.5	3133.7	3141.0	3133.7	3114.2	3133.7	3131.2
5°	2992.7	3031.6	3058.3	3106.9	3131.2	3126.4	3099.6	3104.5	3102.1
7.5°	2876.0	2924.6	2970.8	3043.7	3089.9	3087.5	3048.6	3041.3	3031.6
10°	2759.3	2805.5	2859.0	2934.3	2995.1	3004.8	2965.9	2956.2	2951.3
12.5°	2691.2	2727.7	2764.1	2829.8	2883.3	2902.7	2880.8	2883.3	2880.8
15°	2613.4	2649.9	2674.2	2722.8	2759.3	2786.0	2776.3	2790.9	2778.7
17.5°	2496.7	2540.5	2550.2	2586.7	2613.4	2630.4	2640.2	2654.7	2635.3
20°	2338.7	2372.7	2384.9	2399.5	2411.6	2433.5	2462.7	2477.3	2455.4
22.5°	2117.5	2183.1	2180.7	2173.4	2185.5	2192.8	2239.0	2263.3	2246.3
25°	1869.5	1937.6	1930.3	1901.1	1903.5	1918.1	1976.5	2008.1	1995.9
27.5°	1609.4	1672.6	1655.6	1599.7	1585.1	1606.9	1682.3	1718.8	1711.5
30°	1359.0	1400.3	1373.6	1273.9	1256.9	1283.6	1380.9	1417.3	1397.9
32.5°	1089.1	1120.7	1108.6	987.0	957.8	984.6	1098.9	1132.9	1111.0
35°	870.3	899.5	882.5	739.1	712.3	741.5	860.6	899.5	880.1
37.5°	697.7	719.6	697.7	544.6	520.3	549.4	663.7	714.7	690.4
40°	554.3	571.3	542.1	401.1	381.7	396.3	503.2	554.3	537.3
42.5°	437.6	449.8	418.1	294.2	272.3	291.7	379.2	425.4	415.7
45°	354.9	354.9	316.0	204.2	177.5	196.9	284.4	333.1	335.5
47.5°	303.9	296.6	248.0	136.1	102.1	128.8	226.1	277.1	284.4
50°	262.6	252.8	204.2	99.7	65.6	92.4	187.2	238.2	245.5
52.5°	226.1	218.8	170.2	77.8	46.2	70.5	158.0	206.6	213.9
55°	189.6	184.8	141.0	60.8	36.5	53.5	126.4	167.7	172.6
57.5°	155.6	148.3	114.3	51.1	29.2	43.8	104.5	138.6	143.4
60°	131.3	124.0	92.4	41.3	24.3	34.0	85.1	114.3	119.1
62.5°	109.4	102.1	75.4	34.0	19.4	29.2	68.1	92.4	97.2
65°	87.5	82.7	58.3	26.7	17.0	21.9	53.5	72.9	77.8
67.5°	70.5	65.6	46.2	21.9	14.6	17.0	41.3	58.3	63.2
70°	53.5	48.6	34.0	17.0	12.2	14.6	31.6	43.8	48.6
72.5°	38.9	36.5	26.7	14.6	9.7	12.2	21.9	31.6	36.5
75°	29.2	26.7	19.4	9.7	7.3	9.7	17.0	24.3	26.7
77.5°	19.4	19.4	14.6	7.3	7.3	7.3	12.2	17.0	17.0
80°	14.6	12.2	9.7	4.9	4.9	4.9	7.3	12.2	12.2
82.5°	9.7	7.3	7.3	4.9	4.9	4.9	4.9	7.3	7.3
85°	4.9	4.9	4.9	2.4	2.4	2.4	2.4	4.9	4.9
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)