

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: P859317

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859317
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: LD4C65D010 EU4659027 4LBMDDWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

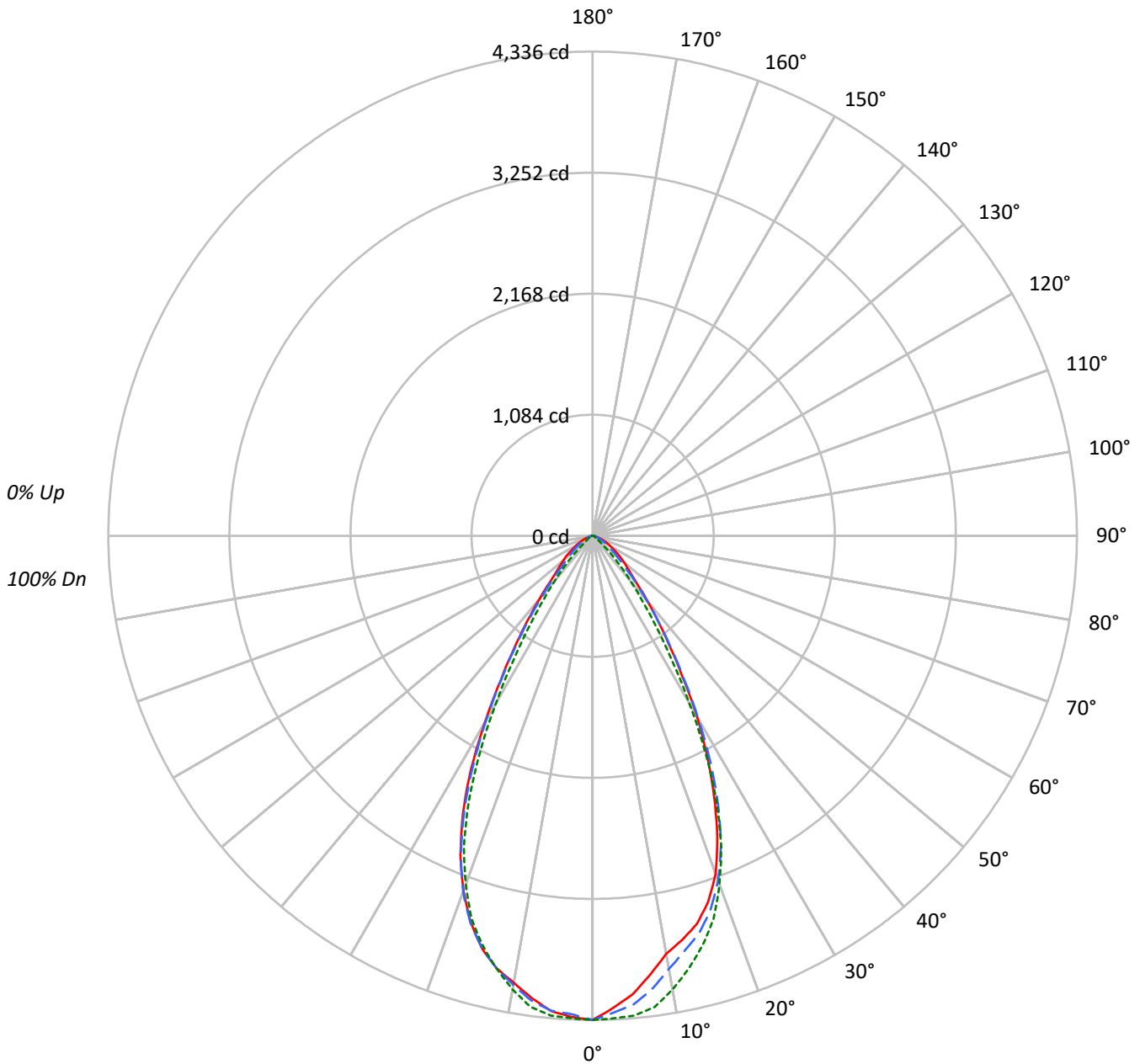
Lumens per Lamp: N/A
Luminaire Lumens: 3947.0 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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°	532656	532656	532656
5°	508262	531805	526847
10°	474045	514563	507041
15°	457772	483312	486720
20°	421081	434220	442090
25°	348997	355354	372597
30°	265503	245544	273093
35°	179762	147127	181771
40°	122429	84292	118661
45°	84925	42462	80268
50°	69111	17278	64639
55°	55925	10752	50913
60°	44424	8231	40321
65°	35029	6802	31134
70°	26473	5999	24066
75°	19082	4747	17468
80°	14220	4740	11815
85°	9444	4652	9444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.6	10.1
10°-20°	1047.4	26.5
20°-30°	1201.7	30.4
30°-40°	730.0	18.5
40°-50°	312.9	7.9
50°-60°	150.1	3.8
60°-70°	73.0	1.8
70°-80°	27.1	0.7
80°-90°	6.2	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°	2647.7	67.1
0°-40°	3377.8	85.6
0°-60°	3840.7	97.3
0°-90°	3947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3947.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4336	4336	4336	4336	4336	
5°	4121	4212	4312	4269	4272	383
15°	3599	3683	3800	3824	3827	1002
25°	2575	2658	2622	2722	2749	1168
35°	1199	1215	981	1185	1212	768
45°	489	435	244	392	462	397
55°	261	194	50	174	238	236
65°	120	80	23	74	107	122
75°	40	27	10	23	37	44
85°	7	7	3	3	7	9
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°	4335.7	4335.7	4335.7	4335.7	4335.7	4335.7	4335.7	4335.7	4335.7
2.5°	4231.9	4278.8	4275.5	4315.6	4325.7	4315.6	4288.8	4315.6	4312.3
5°	4121.4	4175.0	4211.8	4278.8	4312.3	4305.6	4268.8	4275.5	4272.1
7.5°	3960.7	4027.7	4091.3	4191.8	4255.4	4252.0	4198.5	4188.4	4175.0
10°	3800.0	3863.6	3937.3	4041.1	4124.8	4138.2	4084.6	4071.2	4064.5
12.5°	3706.3	3756.5	3806.7	3897.1	3970.8	3997.6	3967.4	3970.8	3967.4
15°	3599.2	3649.4	3682.9	3749.8	3800.0	3836.9	3823.5	3843.6	3826.8
17.5°	3438.4	3498.7	3512.1	3562.3	3599.2	3622.6	3636.0	3656.1	3629.3
20°	3220.8	3267.7	3284.4	3304.5	3321.3	3351.4	3391.6	3411.7	3381.5
22.5°	2916.1	3006.5	3003.2	2993.2	3009.9	3019.9	3083.6	3117.0	3093.6
25°	2574.6	2668.4	2658.4	2618.2	2621.5	2641.6	2722.0	2765.5	2748.7
27.5°	2216.4	2303.5	2280.0	2203.0	2182.9	2213.1	2316.8	2367.1	2357.0
30°	1871.6	1928.5	1891.6	1754.4	1730.9	1767.8	1901.7	1951.9	1925.1
32.5°	1499.9	1543.5	1526.7	1359.3	1319.1	1356.0	1513.3	1560.2	1530.1
35°	1198.6	1238.8	1215.3	1017.8	981.0	1021.2	1185.2	1238.8	1212.0
37.5°	960.9	991.0	960.9	750.0	716.5	756.7	914.0	984.3	950.8
40°	763.4	786.8	746.6	552.4	525.6	545.7	693.0	763.4	739.9
42.5°	602.6	619.4	575.9	405.1	375.0	401.8	522.3	585.9	572.5
45°	488.8	488.8	435.2	281.2	244.4	271.2	391.7	458.7	462.0
47.5°	418.5	408.5	341.5	187.5	140.6	177.4	311.4	381.7	391.7
50°	361.6	348.2	281.2	137.3	90.4	127.2	257.8	328.1	338.2
52.5°	311.4	301.3	234.4	107.1	63.6	97.1	217.6	284.6	294.6
55°	261.1	254.5	194.2	83.7	50.2	73.7	174.1	231.0	237.7
57.5°	214.3	204.2	157.4	70.3	40.2	60.3	144.0	190.8	197.5
60°	180.8	170.8	127.2	56.9	33.5	46.9	117.2	157.4	164.1
62.5°	150.7	140.6	103.8	46.9	26.8	40.2	93.7	127.2	133.9
65°	120.5	113.8	80.4	36.8	23.4	30.1	73.7	100.4	107.1
67.5°	97.1	90.4	63.6	30.1	20.1	23.4	56.9	80.4	87.0
70°	73.7	67.0	46.9	23.4	16.7	20.1	43.5	60.3	67.0
72.5°	53.6	50.2	36.8	20.1	13.4	16.7	30.1	43.5	50.2
75°	40.2	36.8	26.8	13.4	10.0	13.4	23.4	33.5	36.8
77.5°	26.8	26.8	20.1	10.0	10.0	10.0	16.7	23.4	23.4
80°	20.1	16.7	13.4	6.7	6.7	6.7	10.0	16.7	16.7
82.5°	13.4	10.0	10.0	6.7	6.7	6.7	6.7	10.0	10.0
85°	6.7	6.7	6.7	3.3	3.3	3.3	3.3	6.7	6.7
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)