

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: P859167

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859167
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: LD4C60D010 EU4609027 4LBMDDWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

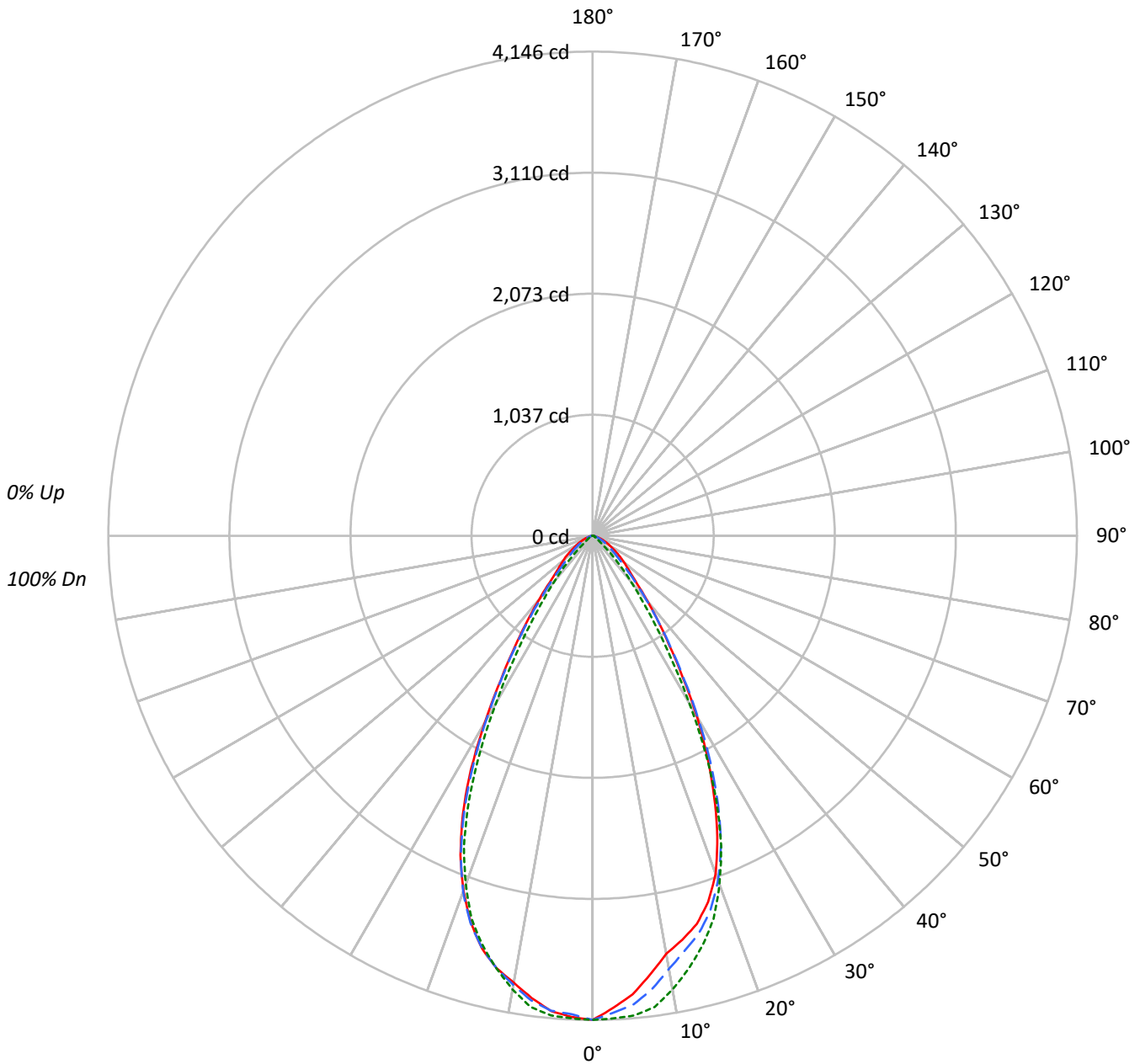
Lumens per Lamp: N/A
Luminaire Lumens: 3774.0 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	509314	509314	509314
5°	485990	508497	503761
10°	453274	492009	484823
15°	437702	462135	465391
20°	402634	415184	422715
25°	333706	339779	356276
30°	253857	234791	261120
35°	171888	140678	173808
40°	117057	80604	113464
45°	81207	40603	76759
50°	66072	16513	61791
55°	53483	10281	48685
60°	42483	7863	38551
65°	33488	6512	29767
70°	25288	5747	22989
75°	18227	4557	16708
80°	13584	4528	11320
85°	9021	4511	9021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.2	10.1
10°-20°	1001.5	26.5
20°-30°	1149.0	30.4
30°-40°	698.0	18.5
40°-50°	299.2	7.9
50°-60°	143.5	3.8
60°-70°	69.8	1.8
70°-80°	25.9	0.7
80°-90°	6.0	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°	2531.7	67.1
0°-40°	3229.7	85.6
0°-60°	3672.4	97.3
0°-90°	3774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3774.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4146	4146	4146	4146	4146	
5°	3941	4027	4123	4082	4085	366
15°	3441	3521	3634	3656	3659	958
25°	2462	2542	2507	2603	2628	1117
35°	1146	1162	938	1133	1159	735
45°	467	416	234	375	442	380
55°	250	186	48	166	227	225
65°	115	77	22	70	102	117
75°	38	26	10	22	35	42
85°	6	6	3	3	6	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°	4145.7	4145.7	4145.7	4145.7	4145.7	4145.7	4145.7	4145.7	4145.7
2.5°	4046.4	4091.3	4088.1	4126.5	4136.1	4126.5	4100.9	4126.5	4123.3
5°	3940.8	3992.0	4027.2	4091.3	4123.3	4116.9	4081.7	4088.1	4084.9
7.5°	3787.1	3851.2	3912.0	4008.0	4068.9	4065.7	4014.4	4004.8	3992.0
10°	3633.5	3694.3	3764.7	3864.0	3944.0	3956.8	3905.6	3892.8	3886.4
12.5°	3543.8	3591.9	3639.9	3726.3	3796.7	3822.4	3793.5	3796.7	3793.5
15°	3441.4	3489.4	3521.4	3585.5	3633.5	3668.7	3655.9	3675.1	3659.1
17.5°	3287.7	3345.4	3358.2	3406.2	3441.4	3463.8	3476.6	3495.8	3470.2
20°	3079.7	3124.5	3140.5	3159.7	3175.7	3204.5	3242.9	3262.1	3233.3
22.5°	2788.3	2874.8	2871.6	2862.0	2878.0	2887.6	2948.4	2980.4	2958.0
25°	2461.8	2551.4	2541.8	2503.4	2506.6	2525.8	2602.7	2644.3	2628.3
27.5°	2119.3	2202.5	2180.1	2106.5	2087.2	2116.1	2215.3	2263.3	2253.7
30°	1789.5	1843.9	1808.7	1677.5	1655.1	1690.3	1818.3	1866.4	1840.7
32.5°	1434.2	1475.8	1459.8	1299.7	1261.3	1296.5	1447.0	1491.8	1463.0
35°	1146.1	1184.5	1162.1	973.2	938.0	976.4	1133.3	1184.5	1158.9
37.5°	918.8	947.6	918.8	717.1	685.1	723.5	874.0	941.2	909.2
40°	729.9	752.3	713.9	528.2	502.6	521.8	662.7	729.9	707.5
42.5°	576.2	592.2	550.6	387.4	358.5	384.2	499.4	560.2	547.4
45°	467.4	467.4	416.2	268.9	233.7	259.3	374.6	438.6	441.8
47.5°	400.2	390.6	326.5	179.3	134.5	169.7	297.7	364.9	374.6
50°	345.7	332.9	268.9	131.3	86.4	121.6	246.5	313.7	323.3
52.5°	297.7	288.1	224.1	102.4	60.8	92.8	208.1	272.1	281.7
55°	249.7	243.3	185.7	80.0	48.0	70.4	166.5	220.9	227.3
57.5°	204.9	195.3	150.5	67.2	38.4	57.6	137.7	182.5	188.9
60°	172.9	163.3	121.6	54.4	32.0	44.8	112.0	150.5	156.9
62.5°	144.1	134.5	99.2	44.8	25.6	38.4	89.6	121.6	128.1
65°	115.2	108.8	76.8	35.2	22.4	28.8	70.4	96.0	102.4
67.5°	92.8	86.4	60.8	28.8	19.2	22.4	54.4	76.8	83.2
70°	70.4	64.0	44.8	22.4	16.0	19.2	41.6	57.6	64.0
72.5°	51.2	48.0	35.2	19.2	12.8	16.0	28.8	41.6	48.0
75°	38.4	35.2	25.6	12.8	9.6	12.8	22.4	32.0	35.2
77.5°	25.6	25.6	19.2	9.6	9.6	9.6	16.0	22.4	22.4
80°	19.2	16.0	12.8	6.4	6.4	6.4	9.6	16.0	16.0
82.5°	12.8	9.6	9.6	6.4	6.4	6.4	6.4	9.6	9.6
85°	6.4	6.4	6.4	3.2	3.2	3.2	3.2	6.4	6.4
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)