

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: P859057

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859057
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: LD4C55D010 EU4559027 4LBMDDWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

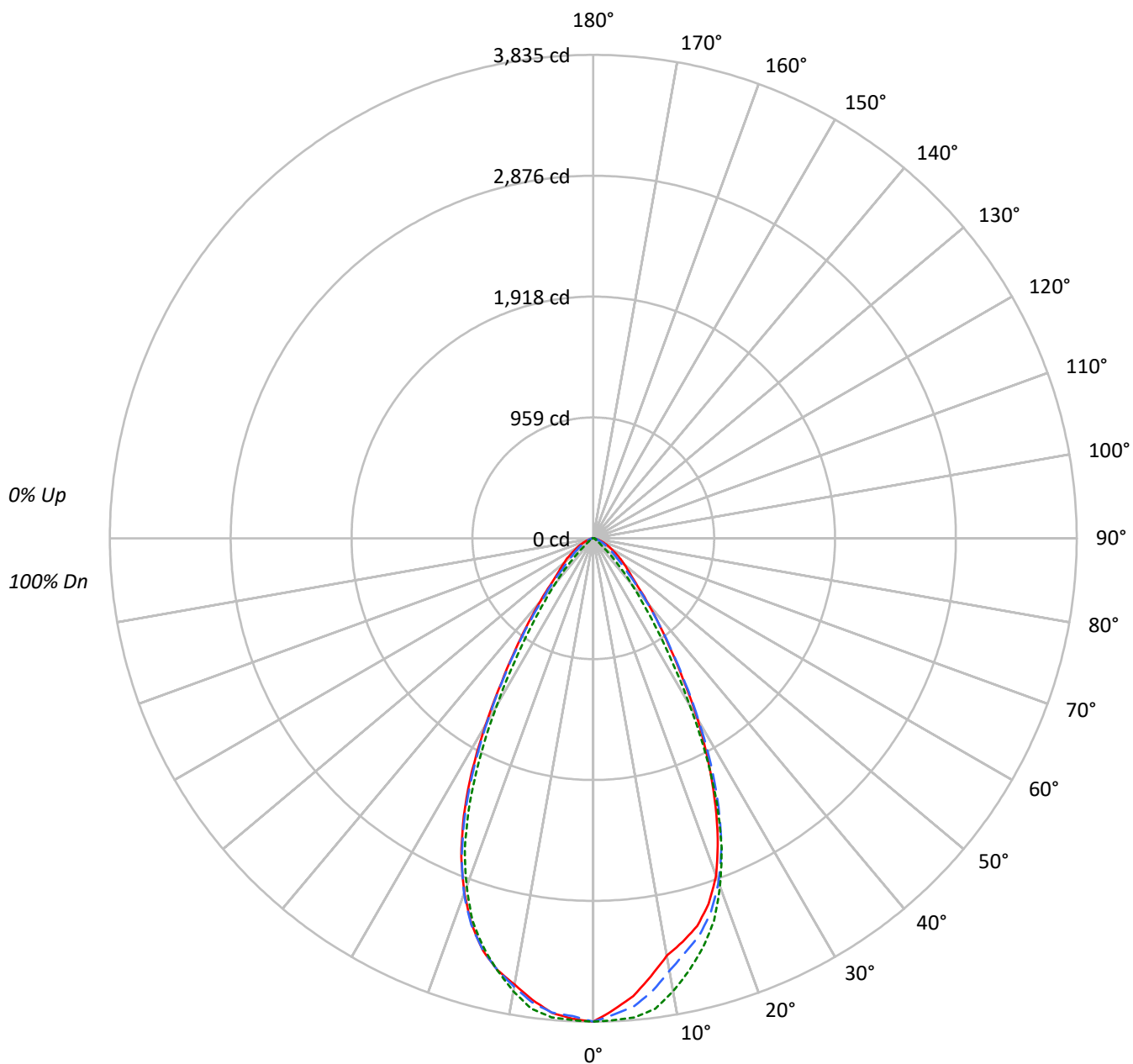
Lumens per Lamp: N/A
Luminaire Lumens: 3491.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	471119	471119	471119
5°	449548	470365	465975
10°	419280	455121	448472
15°	404875	427476	430491
20°	372433	384056	391024
25°	308683	314309	329558
30°	234819	217186	241543
35°	158990	130120	160775
40°	108284	74558	104949
45°	75108	37563	71008
50°	61122	15290	57166
55°	49478	9510	45022
60°	39289	7273	35652
65°	30988	6017	27558
70°	23384	5316	21265
75°	16851	4225	15474
80°	12593	4174	10471
85°	8317	4229	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.6	10.1
10°-20°	926.4	26.5
20°-30°	1062.9	30.4
30°-40°	645.7	18.5
40°-50°	276.7	7.9
50°-60°	132.7	3.8
60°-70°	64.6	1.8
70°-80°	23.9	0.7
80°-90°	5.5	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°	2341.8	67.1
0°-40°	2987.5	85.6
0°-60°	3397.0	97.3
0°-90°	3491.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3835	3835	3835	3835	3835	
5°	3645	3725	3814	3776	3778	339
15°	3183	3257	3361	3382	3385	886
25°	2277	2351	2319	2408	2431	1033
35°	1060	1075	868	1048	1072	679
45°	432	385	216	346	409	351
55°	231	172	44	154	210	208
65°	107	71	21	65	95	108
75°	36	24	9	21	33	39
85°	6	6	3	3	6	8
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°	3834.8	3834.8	3834.8	3834.8	3834.8	3834.8	3834.8	3834.8	3834.8
2.5°	3743.0	3784.5	3781.5	3817.0	3825.9	3817.0	3793.4	3817.0	3814.1
5°	3645.3	3692.7	3725.2	3784.5	3814.1	3808.2	3775.6	3781.5	3778.5
7.5°	3503.2	3562.4	3618.6	3707.5	3763.7	3760.8	3713.4	3704.5	3692.7
10°	3361.0	3417.3	3482.4	3574.2	3648.3	3660.1	3612.7	3600.9	3595.0
12.5°	3278.1	3322.5	3366.9	3446.9	3512.0	3535.7	3509.1	3512.0	3509.1
15°	3183.3	3227.8	3257.4	3316.6	3361.0	3393.6	3381.7	3399.5	3384.7
17.5°	3041.2	3094.5	3106.3	3150.8	3183.3	3204.1	3215.9	3233.7	3210.0
20°	2848.7	2890.2	2905.0	2922.7	2937.6	2964.2	2999.7	3017.5	2990.9
22.5°	2579.2	2659.2	2656.2	2647.4	2662.2	2671.0	2727.3	2756.9	2736.2
25°	2277.2	2360.1	2351.2	2315.7	2318.7	2336.4	2407.5	2446.0	2431.2
27.5°	1960.3	2037.3	2016.6	1948.5	1930.7	1957.4	2049.2	2093.6	2084.7
30°	1655.3	1705.7	1673.1	1551.7	1531.0	1563.5	1682.0	1726.4	1702.7
32.5°	1326.6	1365.1	1350.3	1202.3	1166.7	1199.3	1338.5	1379.9	1353.3
35°	1060.1	1095.7	1074.9	900.2	867.6	903.2	1048.3	1095.7	1072.0
37.5°	849.9	876.5	849.9	663.3	633.7	669.2	808.4	870.6	841.0
40°	675.2	695.9	660.4	488.6	464.9	482.7	613.0	675.2	654.4
42.5°	533.0	547.8	509.3	358.3	331.7	355.3	462.0	518.2	506.4
45°	432.3	432.3	385.0	248.7	216.2	239.9	346.5	405.7	408.7
47.5°	370.2	361.3	302.0	165.8	124.4	156.9	275.4	337.6	346.5
50°	319.8	308.0	248.7	121.4	80.0	112.5	228.0	290.2	299.1
52.5°	275.4	266.5	207.3	94.8	56.3	85.9	192.5	251.7	260.6
55°	231.0	225.1	171.8	74.0	44.4	65.1	154.0	204.3	210.2
57.5°	189.5	180.6	139.2	62.2	35.5	53.3	127.3	168.8	174.7
60°	159.9	151.0	112.5	50.3	29.6	41.5	103.6	139.2	145.1
62.5°	133.3	124.4	91.8	41.5	23.7	35.5	82.9	112.5	118.4
65°	106.6	100.7	71.1	32.6	20.7	26.7	65.1	88.8	94.8
67.5°	85.9	80.0	56.3	26.7	17.8	20.7	50.3	71.1	77.0
70°	65.1	59.2	41.5	20.7	14.8	17.8	38.5	53.3	59.2
72.5°	47.4	44.4	32.6	17.8	11.8	14.8	26.7	38.5	44.4
75°	35.5	32.6	23.7	11.8	8.9	11.8	20.7	29.6	32.6
77.5°	23.7	23.7	17.8	8.9	8.9	8.9	14.8	20.7	20.7
80°	17.8	14.8	11.8	5.9	5.9	5.9	8.9	14.8	14.8
82.5°	11.8	8.9	8.9	5.9	5.9	5.9	5.9	8.9	8.9
85°	5.9	5.9	5.9	3.0	3.0	3.0	3.0	5.9	5.9
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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)