

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: P859145

Luminaire Tested: **LD4C55D010 EU4559050 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859145
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 EU4559050 4LBMDSWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

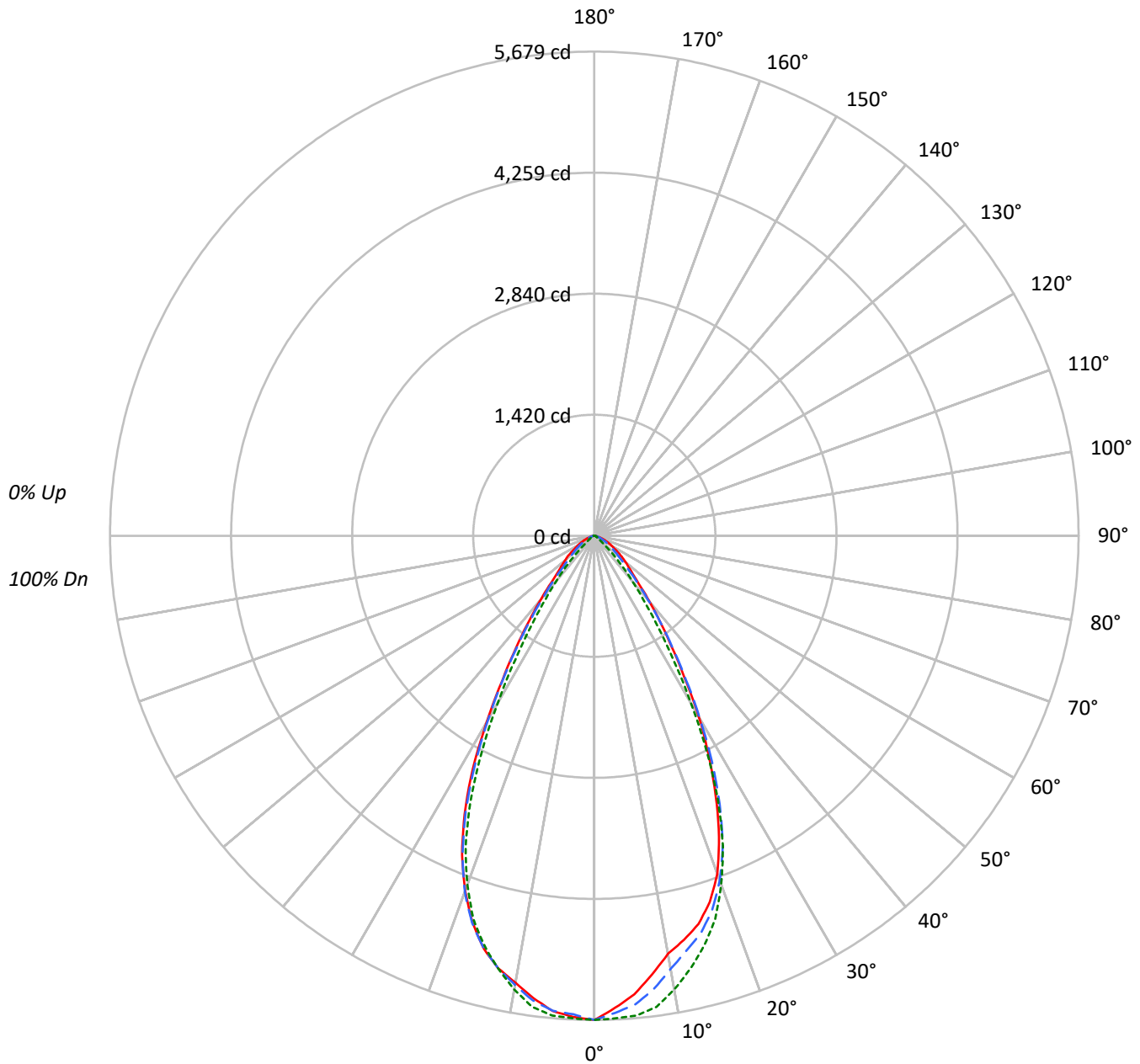
Lumens per Lamp: N/A
Luminaire Lumens: 5170.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	697709	697709	697709
5°	665758	696589	690089
10°	620937	674005	664150
15°	599612	633075	637539
20°	551557	568762	579078
25°	457142	465465	488062
30°	347767	321637	357712
35°	235463	192705	238088
40°	160358	110417	155434
45°	111246	55615	105148
50°	90517	22629	84650
55°	73274	14094	66698
60°	58183	10787	52802
65°	45901	8924	40785
70°	34663	7866	31502
75°	24968	6266	22879
80°	18607	6226	15494
85°	12404	6202	12404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.2	10.1
10°-20°	1371.9	26.5
20°-30°	1574.1	30.4
30°-40°	956.2	18.5
40°-50°	409.8	7.9
50°-60°	196.6	3.8
60°-70°	95.6	1.8
70°-80°	35.5	0.7
80°-90°	8.2	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°	3468.1	67.1
0°-40°	4424.4	85.6
0°-60°	5030.8	97.3
0°-90°	5170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5679	5679	5679	5679	5679	
5°	5398	5517	5648	5592	5596	502
15°	4714	4824	4978	5008	5013	1313
25°	3372	3482	3434	3565	3600	1530
35°	1570	1592	1285	1552	1588	1006
45°	640	570	320	513	605	520
55°	342	254	66	228	311	309
65°	158	105	31	96	140	160
75°	53	35	13	31	48	58
85°	9	9	4	4	9	12
90°	0	0	0	0	0	



TEST NUMBER: P859145

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5679.2	5679.2	5679.2	5679.2	5679.2	5679.2	5679.2	5679.2	5679.2
2.5°	5543.2	5604.6	5600.2	5652.9	5666.0	5652.9	5617.8	5652.9	5648.5
5°	5398.5	5468.7	5516.9	5604.6	5648.5	5639.7	5591.5	5600.2	5595.8
7.5°	5188.0	5275.7	5359.0	5490.6	5573.9	5569.5	5499.4	5486.2	5468.7
10°	4977.5	5060.8	5157.3	5293.2	5402.9	5420.4	5350.3	5332.7	5323.9
12.5°	4854.7	4920.5	4986.3	5104.7	5201.2	5236.2	5196.8	5201.2	5196.8
15°	4714.4	4780.2	4824.0	4911.7	4977.5	5025.7	5008.2	5034.5	5012.6
17.5°	4503.9	4582.8	4600.3	4666.1	4714.4	4745.1	4762.6	4788.9	4753.8
20°	4218.8	4280.2	4302.1	4328.4	4350.4	4389.8	4442.5	4468.8	4429.3
22.5°	3819.7	3938.1	3933.8	3920.6	3942.5	3955.7	4039.0	4082.9	4052.2
25°	3372.4	3495.2	3482.1	3429.4	3433.8	3460.1	3565.4	3622.4	3600.5
27.5°	2903.2	3017.2	2986.5	2885.6	2859.3	2898.8	3034.7	3100.5	3087.4
30°	2451.5	2526.0	2477.8	2298.0	2267.3	2315.5	2490.9	2556.7	2521.6
32.5°	1964.7	2021.7	1999.8	1780.5	1727.9	1776.1	1982.2	2043.6	2004.2
35°	1570.0	1622.6	1591.9	1333.2	1284.9	1337.6	1552.5	1622.6	1587.5
37.5°	1258.6	1298.1	1258.6	982.3	938.5	991.1	1197.2	1289.3	1245.5
40°	999.9	1030.6	978.0	723.6	688.5	714.8	907.8	999.9	969.2
42.5°	789.4	811.3	754.3	530.6	491.2	526.3	684.1	767.5	749.9
45°	640.3	640.3	570.1	368.4	320.1	355.2	513.1	600.8	605.2
47.5°	548.2	535.0	447.3	245.6	184.2	232.4	407.8	499.9	513.1
50°	473.6	456.1	368.4	179.8	118.4	166.6	337.7	429.8	442.9
52.5°	407.8	394.7	307.0	140.3	83.3	127.2	285.1	372.8	385.9
55°	342.1	333.3	254.4	109.6	65.8	96.5	228.0	302.6	311.4
57.5°	280.7	267.5	206.1	92.1	52.6	78.9	188.6	250.0	258.7
60°	236.8	223.7	166.6	74.6	43.9	61.4	153.5	206.1	214.9
62.5°	197.3	184.2	135.9	61.4	35.1	52.6	122.8	166.6	175.4
65°	157.9	149.1	105.3	48.2	30.7	39.5	96.5	131.6	140.3
67.5°	127.2	118.4	83.3	39.5	26.3	30.7	74.6	105.3	114.0
70°	96.5	87.7	61.4	30.7	21.9	26.3	57.0	78.9	87.7
72.5°	70.2	65.8	48.2	26.3	17.5	21.9	39.5	57.0	65.8
75°	52.6	48.2	35.1	17.5	13.2	17.5	30.7	43.9	48.2
77.5°	35.1	35.1	26.3	13.2	13.2	13.2	21.9	30.7	30.7
80°	26.3	21.9	17.5	8.8	8.8	8.8	13.2	21.9	21.9
82.5°	17.5	13.2	13.2	8.8	8.8	8.8	8.8	13.2	13.2
85°	8.8	8.8	8.8	4.4	4.4	4.4	4.4	8.8	8.8
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
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)