

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: P859058

Luminaire Tested: **LD4C55D010 EU4559027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859058
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 4LBMDSWGPH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

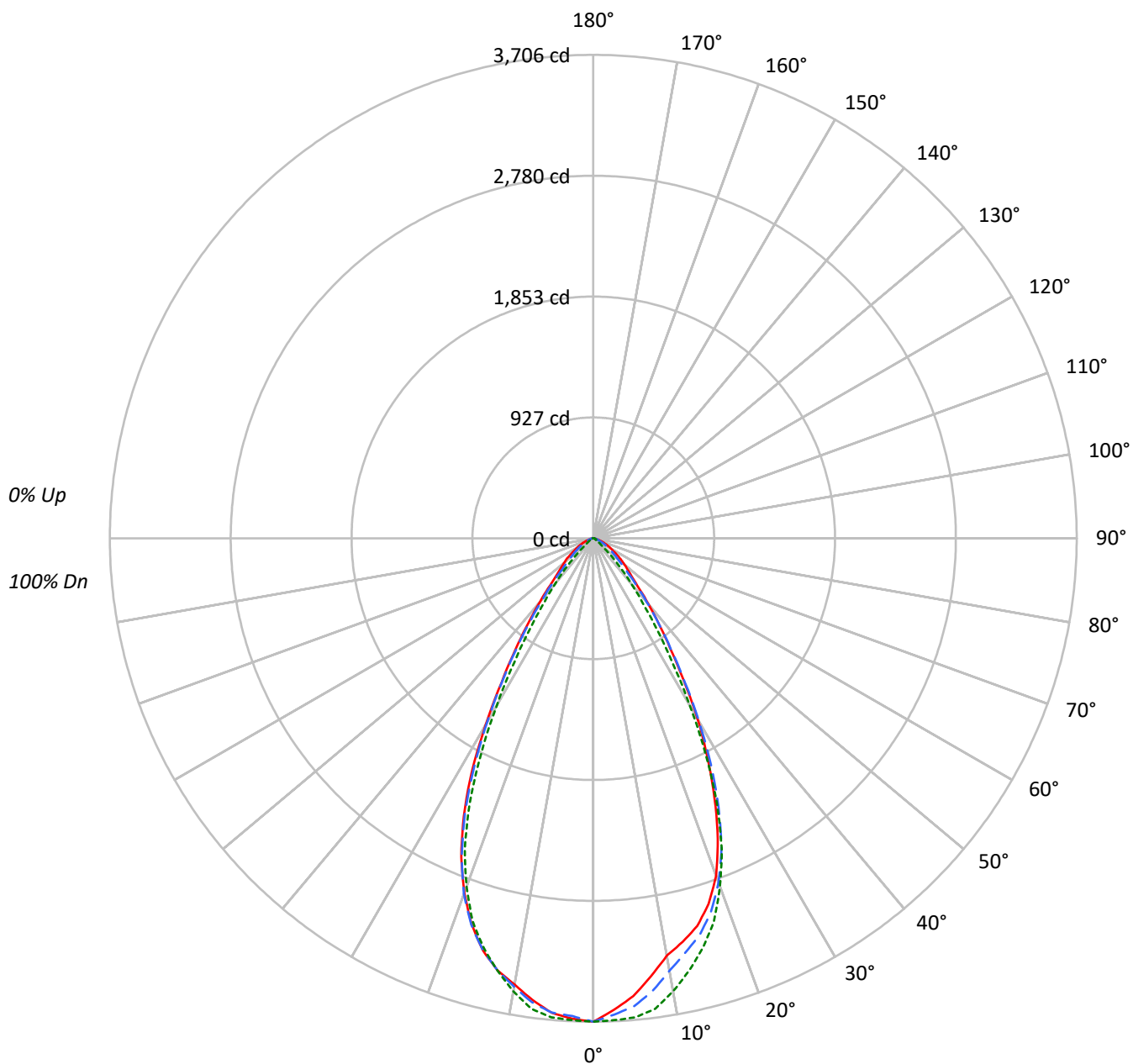
Lumens per Lamp: N/A
Luminaire Lumens: 3374.0 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	455332	455332	455332
5°	434478	454605	450362
10°	405234	439864	433439
15°	391304	413155	416068
20°	359948	371178	377911
25°	298340	303763	318511
30°	226960	209909	233443
35°	153666	125770	155376
40°	104644	72056	101436
45°	72606	36295	68628
50°	59077	14774	55255
55°	47807	9189	43523
60°	37962	7027	34448
65°	29942	5814	26628
70°	22630	5137	20546
75°	16281	4082	14952
80°	12169	4033	10117
85°	8035	4088	8035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.8	10.1
10°-20°	895.3	26.5
20°-30°	1027.2	30.4
30°-40°	624.0	18.5
40°-50°	267.4	7.9
50°-60°	128.3	3.8
60°-70°	62.4	1.8
70°-80°	23.1	0.7
80°-90°	5.3	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°	2263.3	67.1
0°-40°	2887.4	85.6
0°-60°	3283.1	97.3
0°-90°	3374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3374.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3706	3706	3706	3706	3706	
5°	3523	3600	3686	3649	3652	327
15°	3077	3148	3248	3268	3271	857
25°	2201	2272	2241	2327	2350	998
35°	1025	1039	839	1013	1036	657
45°	418	372	209	335	395	339
55°	223	166	43	149	203	201
65°	103	69	20	63	92	105
75°	34	23	9	20	32	38
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°	3706.3	3706.3	3706.3	3706.3	3706.3	3706.3	3706.3	3706.3	3706.3
2.5°	3617.6	3657.6	3654.8	3689.1	3697.7	3689.1	3666.2	3689.1	3686.3
5°	3523.1	3568.9	3600.4	3657.6	3686.3	3680.5	3649.0	3654.8	3651.9
7.5°	3385.7	3443.0	3497.4	3583.2	3637.6	3634.7	3588.9	3580.4	3568.9
10°	3248.4	3302.7	3365.7	3454.4	3526.0	3537.4	3491.6	3480.2	3474.5
12.5°	3168.2	3211.2	3254.1	3331.4	3394.3	3417.2	3391.5	3394.3	3391.5
15°	3076.6	3119.6	3148.2	3205.4	3248.4	3279.9	3268.4	3285.6	3271.3
17.5°	2939.3	2990.8	3002.2	3045.2	3076.6	3096.7	3108.1	3125.3	3102.4
20°	2753.2	2793.3	2807.6	2824.8	2839.1	2864.9	2899.2	2916.4	2890.6
22.5°	2492.8	2570.1	2567.2	2558.6	2572.9	2581.5	2635.9	2664.5	2644.5
25°	2200.9	2281.0	2272.4	2238.1	2240.9	2258.1	2326.8	2364.0	2349.7
27.5°	1894.6	1969.1	1949.0	1883.2	1866.0	1891.8	1980.5	2023.4	2014.8
30°	1599.9	1648.5	1617.0	1499.7	1479.7	1511.1	1625.6	1668.5	1645.6
32.5°	1282.2	1319.4	1305.1	1162.0	1127.6	1159.1	1293.6	1333.7	1307.9
35°	1024.6	1058.9	1038.9	870.0	838.6	872.9	1013.1	1058.9	1036.0
37.5°	821.4	847.2	821.4	641.1	612.5	646.8	781.3	841.4	812.8
40°	652.5	672.6	638.2	472.2	449.3	466.5	592.4	652.5	632.5
42.5°	515.2	529.5	492.3	346.3	320.5	343.4	446.5	500.8	489.4
45°	417.9	417.9	372.1	240.4	208.9	231.8	334.9	392.1	395.0
47.5°	357.7	349.2	291.9	160.3	120.2	151.7	266.2	326.3	334.9
50°	309.1	297.6	240.4	117.3	77.3	108.8	220.4	280.5	289.1
52.5°	266.2	257.6	200.3	91.6	54.4	83.0	186.0	243.3	251.9
55°	223.2	217.5	166.0	71.5	42.9	63.0	148.8	197.5	203.2
57.5°	183.2	174.6	134.5	60.1	34.3	51.5	123.1	163.1	168.9
60°	154.5	146.0	108.8	48.7	28.6	40.1	100.2	134.5	140.2
62.5°	128.8	120.2	88.7	40.1	22.9	34.3	80.1	108.8	114.5
65°	103.0	97.3	68.7	31.5	20.0	25.8	63.0	85.9	91.6
67.5°	83.0	77.3	54.4	25.8	17.2	20.0	48.7	68.7	74.4
70°	63.0	57.2	40.1	20.0	14.3	17.2	37.2	51.5	57.2
72.5°	45.8	42.9	31.5	17.2	11.4	14.3	25.8	37.2	42.9
75°	34.3	31.5	22.9	11.4	8.6	11.4	20.0	28.6	31.5
77.5°	22.9	22.9	17.2	8.6	8.6	8.6	14.3	20.0	20.0
80°	17.2	14.3	11.4	5.7	5.7	5.7	8.6	14.3	14.3
82.5°	11.4	8.6	8.6	5.7	5.7	5.7	5.7	8.6	8.6
85°	5.7	5.7	5.7	2.9	2.9	2.9	2.9	5.7	5.7
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)