

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: P857968

Luminaire Tested: **LD4C40D010 EU4409050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C40D010 EU4409050 4LBMDSWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

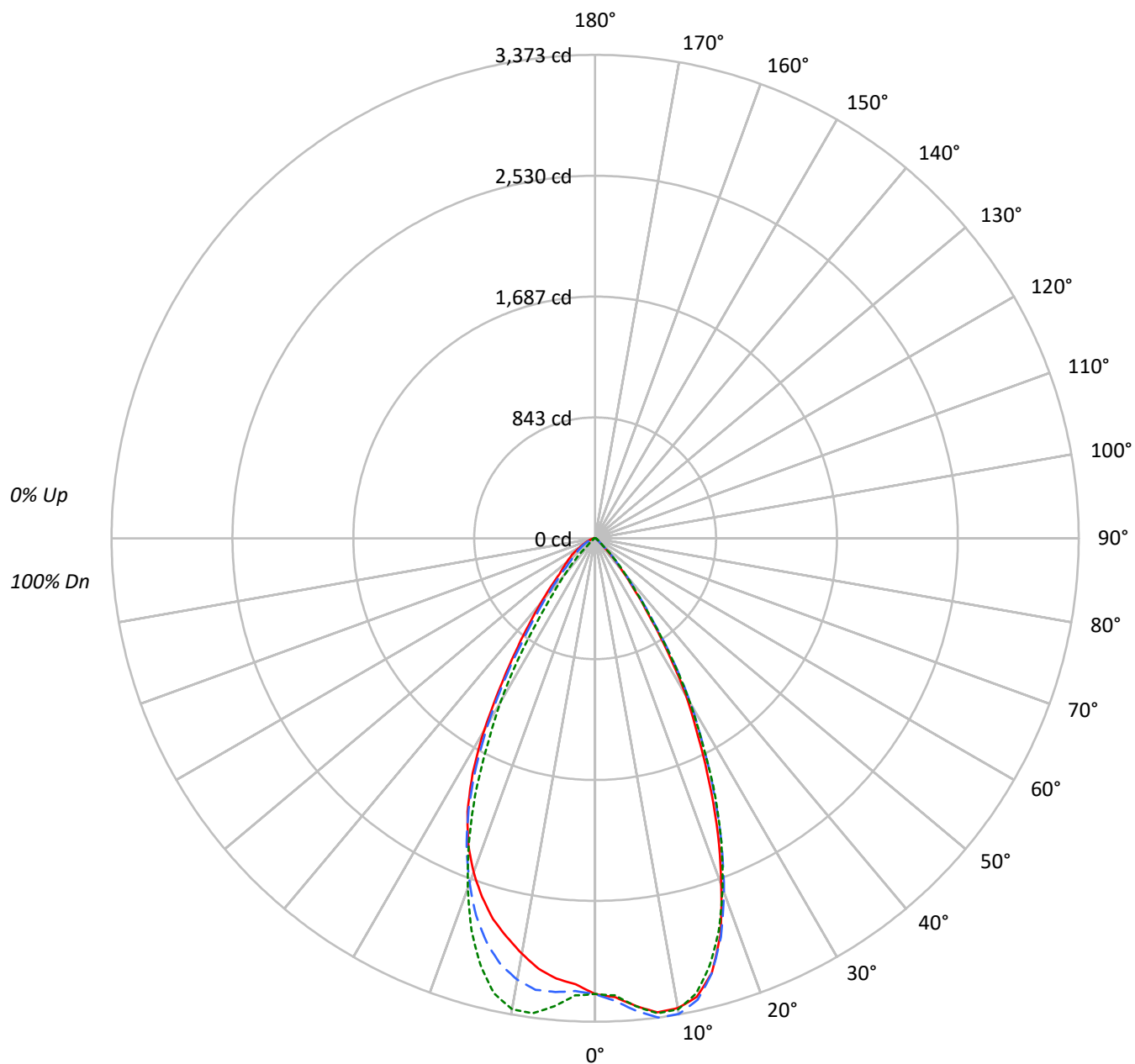
Lumens per Lamp: N/A
Luminaire Lumens: 2827.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	105	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	71	67		74
7	83	74	68	64	82	73	68	64	72	67	63		71	66	63		70
8	79	70	64	60	78	69	64	60	68	63	59		67	63	59		66
9	76	66	60	56	75	66	60	56	65	60	56		64	59	56		63
10	72	63	57	53	71	62	57	53	61	56	53		61	56	53		60

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	390637	390637	390637
5°	403944	404215	380327
10°	415126	416212	367073
15°	399444	392525	349892
20°	336323	339461	324086
25°	255492	268464	285287
30°	179693	187098	219513
35°	96945	101519	145252
40°	46765	51656	94236
45°	16644	22691	61261
50°	6231	7913	49081
55°	4669	5590	40546
60°	3735	4275	29411
65°	3169	3808	22791
70°	2335	3125	17996
75°	2089	3085	13433
80°	1556	3113	9268
85°	0	3101	6202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.6	11.0
10°-20°	835.2	29.5
20°-30°	906.0	32.0
30°-40°	502.7	17.8
40°-50°	160.1	5.7
50°-60°	64.5	2.3
60°-70°	32.6	1.2
70°-80°	13.5	0.5
80°-90°	2.8	0.1
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°	2050.8	72.5
0°-40°	2553.4	90.3
0°-60°	2778.1	98.3
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3180	3180	3180	3180	3180	
5°	3276	3310	3278	3178	3084	315
15°	3141	3143	3086	2921	2751	859
25°	1885	1963	1980	2087	2105	861
35°	646	699	677	894	968	429
45°	96	113	131	292	353	92
55°	22	22	26	139	189	20
65°	11	11	13	63	78	11
75°	4	4	6	22	28	5
85°	0	0	2	4	4	0
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°	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7	3179.7
2.5°	3205.9	3234.1	3232.0	3210.2	3192.8	3186.3	3162.3	3134.0	3114.4
5°	3275.5	3310.3	3310.3	3292.9	3277.7	3240.7	3177.6	3116.6	3084.0
7.5°	3336.4	3371.3	3373.4	3360.4	3343.0	3282.0	3177.6	3079.6	3029.6
10°	3327.7	3353.9	3369.1	3356.0	3336.4	3255.9	3127.5	2996.9	2942.5
12.5°	3277.7	3301.6	3299.4	3279.9	3253.7	3171.0	3044.8	2909.9	2848.9
15°	3140.6	3153.6	3142.7	3121.0	3086.2	3023.0	2920.7	2805.4	2751.0
17.5°	2903.3	2920.7	2916.4	2881.6	2868.5	2807.6	2759.7	2670.5	2622.6
20°	2572.5	2626.9	2626.9	2600.8	2596.5	2555.1	2561.6	2513.8	2478.9
22.5°	2239.5	2287.4	2302.6	2291.8	2300.5	2280.9	2341.8	2328.8	2311.4
25°	1884.8	1932.7	1963.1	1958.8	1980.5	1980.5	2087.2	2113.3	2104.6
27.5°	1551.8	1597.5	1632.3	1641.0	1628.0	1651.9	1797.7	1850.0	1850.0
30°	1266.7	1303.7	1336.3	1336.3	1318.9	1336.3	1490.8	1551.8	1547.4
32.5°	944.6	985.9	1016.4	1012.0	996.8	1020.7	1184.0	1244.9	1229.7
35°	646.4	674.7	698.6	689.9	676.9	716.0	894.5	970.7	968.5
37.5°	437.5	463.6	478.8	472.3	467.9	513.6	676.9	761.7	757.4
40°	291.6	309.1	319.9	317.8	322.1	361.3	509.3	587.6	587.6
42.5°	185.0	195.9	206.8	206.8	217.6	259.0	387.4	454.9	454.9
45°	95.8	102.3	113.2	119.7	130.6	174.1	291.6	348.2	352.6
47.5°	45.7	47.9	52.2	54.4	63.1	108.8	224.2	285.1	298.2
50°	32.6	34.8	34.8	34.8	41.4	82.7	189.3	245.9	256.8
52.5°	26.1	26.1	26.1	28.3	32.6	69.6	163.2	213.3	222.0
55°	21.8	21.8	21.8	21.8	26.1	56.6	139.3	182.8	189.3
57.5°	17.4	17.4	17.4	17.4	21.8	45.7	115.3	145.8	148.0
60°	15.2	15.2	15.2	15.2	17.4	39.2	93.6	119.7	119.7
62.5°	13.1	13.1	13.1	13.1	15.2	32.6	78.4	97.9	95.8
65°	10.9	10.9	10.9	10.9	13.1	26.1	63.1	78.4	78.4
67.5°	8.7	8.7	8.7	8.7	10.9	21.8	50.1	63.1	63.1
70°	6.5	6.5	6.5	6.5	8.7	17.4	41.4	50.1	50.1
72.5°	6.5	6.5	6.5	6.5	6.5	13.1	30.5	39.2	37.0
75°	4.4	4.4	4.4	4.4	6.5	10.9	21.8	28.3	28.3
77.5°	4.4	4.4	4.4	4.4	4.4	8.7	17.4	19.6	19.6
80°	2.2	2.2	2.2	2.2	4.4	6.5	10.9	13.1	13.1
82.5°	0.0	2.2	0.0	2.2	2.2	4.4	8.7	8.7	8.7
85°	0.0	0.0	0.0	0.0	2.2	2.2	4.4	6.5	4.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2
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)