

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: P857884

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857884
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 EU4409027 4LBMDSWLI
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

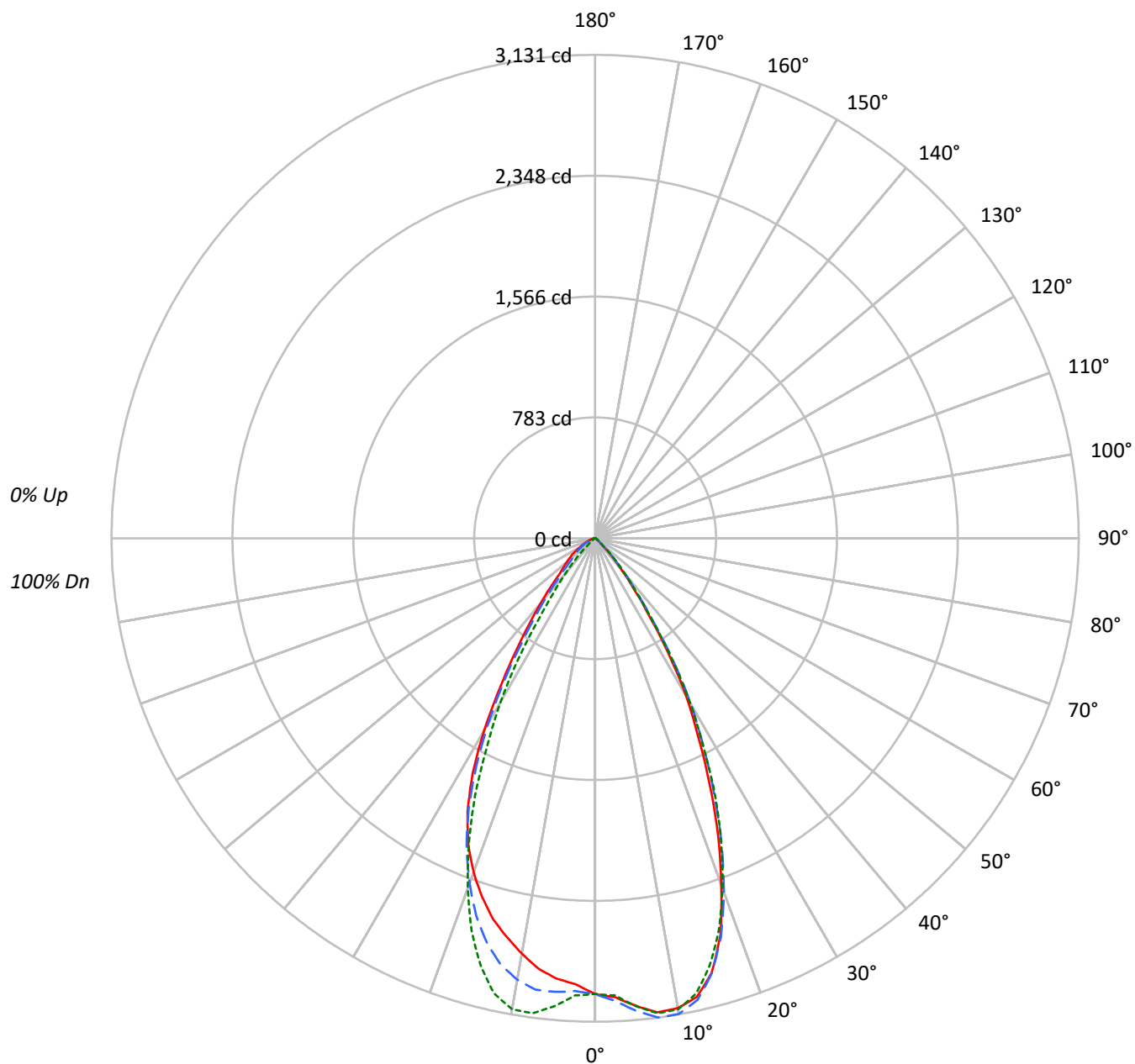
Lumens per Lamp: N/A
Luminaire Lumens: 2624.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	362590	362590	362590
5°	374938	375185	353011
10°	385324	386334	340714
15°	370751	364328	324760
20°	312176	315078	300815
25°	237138	249189	264804
30°	166784	173664	203752
35°	89986	94230	134829
40°	43413	47952	87468
45°	15446	21057	56865
50°	5791	7339	45564
55°	4327	5183	37654
60°	3464	3980	27298
65°	2936	3517	21134
70°	2191	2910	16703
75°	1899	2895	12484
80°	1415	2830	8561
85°	0	2819	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.4	11.0
10°-20°	775.2	29.5
20°-30°	840.9	32.0
30°-40°	466.6	17.8
40°-50°	148.6	5.7
50°-60°	59.9	2.3
60°-70°	30.3	1.2
70°-80°	12.5	0.5
80°-90°	2.6	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°	1903.5	72.5
0°-40°	2370.1	90.3
0°-60°	2578.6	98.3
0°-90°	2624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2951	2951	2951	2951	2951	
5°	3040	3073	3042	2949	2862	292
15°	2915	2917	2864	2711	2553	797
25°	1749	1822	1838	1937	1954	799
35°	600	648	628	830	899	398
45°	89	105	121	271	327	85
55°	20	20	24	129	176	18
65°	10	10	12	59	73	10
75°	4	4	6	20	26	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°	2951.4	2951.4	2951.4	2951.4	2951.4	2951.4	2951.4	2951.4	2951.4
2.5°	2975.7	3001.9	2999.9	2979.7	2963.5	2957.5	2935.2	2909.0	2890.8
5°	3040.3	3072.6	3072.6	3056.5	3042.3	3008.0	2949.4	2892.8	2862.5
7.5°	3096.9	3129.2	3131.2	3119.1	3102.9	3046.4	2949.4	2858.5	2812.0
10°	3088.8	3113.0	3127.2	3115.0	3096.9	3022.1	2902.9	2781.7	2731.2
12.5°	3042.3	3064.5	3062.5	3044.3	3020.1	2943.3	2826.2	2700.9	2644.4
15°	2915.0	2927.2	2917.1	2896.9	2864.5	2806.0	2711.0	2603.9	2553.4
17.5°	2694.9	2711.0	2707.0	2674.7	2662.5	2606.0	2561.5	2478.7	2434.3
20°	2387.8	2438.3	2438.3	2414.1	2410.0	2371.6	2377.7	2333.3	2300.9
22.5°	2078.7	2123.2	2137.3	2127.2	2135.3	2117.1	2173.7	2161.5	2145.4
25°	1749.4	1793.9	1822.2	1818.1	1838.3	1838.3	1937.3	1961.5	1953.5
27.5°	1440.4	1482.8	1515.1	1523.2	1511.1	1533.3	1668.6	1717.1	1717.1
30°	1175.7	1210.1	1240.4	1240.4	1224.2	1240.4	1383.8	1440.4	1436.3
32.5°	876.7	915.1	943.4	939.4	925.2	947.4	1099.0	1155.5	1141.4
35°	600.0	626.2	648.5	640.4	628.3	664.6	830.3	901.0	899.0
37.5°	406.0	430.3	444.4	438.4	434.3	476.8	628.3	707.0	703.0
40°	270.7	286.9	297.0	294.9	299.0	335.3	472.7	545.4	545.4
42.5°	171.7	181.8	191.9	191.9	202.0	240.4	359.6	422.2	422.2
45°	88.9	94.9	105.0	111.1	121.2	161.6	270.7	323.2	327.3
47.5°	42.4	44.4	48.5	50.5	58.6	101.0	208.1	264.6	276.8
50°	30.3	32.3	32.3	32.3	38.4	76.8	175.8	228.3	238.4
52.5°	24.2	24.2	24.2	26.3	30.3	64.6	151.5	198.0	206.1
55°	20.2	20.2	20.2	20.2	24.2	52.5	129.3	169.7	175.8
57.5°	16.2	16.2	16.2	16.2	20.2	42.4	107.1	135.3	137.4
60°	14.1	14.1	14.1	14.1	16.2	36.4	86.9	111.1	111.1
62.5°	12.1	12.1	12.1	12.1	14.1	30.3	72.7	90.9	88.9
65°	10.1	10.1	10.1	10.1	12.1	24.2	58.6	72.7	72.7
67.5°	8.1	8.1	8.1	8.1	10.1	20.2	46.5	58.6	58.6
70°	6.1	6.1	6.1	6.1	8.1	16.2	38.4	46.5	46.5
72.5°	6.1	6.1	6.1	6.1	6.1	12.1	28.3	36.4	34.3
75°	4.0	4.0	4.0	4.0	6.1	10.1	20.2	26.3	26.3
77.5°	4.0	4.0	4.0	4.0	4.0	8.1	16.2	18.2	18.2
80°	2.0	2.0	2.0	2.0	4.0	6.1	10.1	12.1	12.1
82.5°	0.0	2.0	0.0	2.0	2.0	4.0	8.1	8.1	8.1
85°	0.0	0.0	0.0	0.0	2.0	2.0	4.0	6.1	4.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0
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)