

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: P857927

Luminaire Tested: **LD4C40D010 EU4409035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857927
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: LD4C40D010 EU4409035 4LBMDSWMW
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

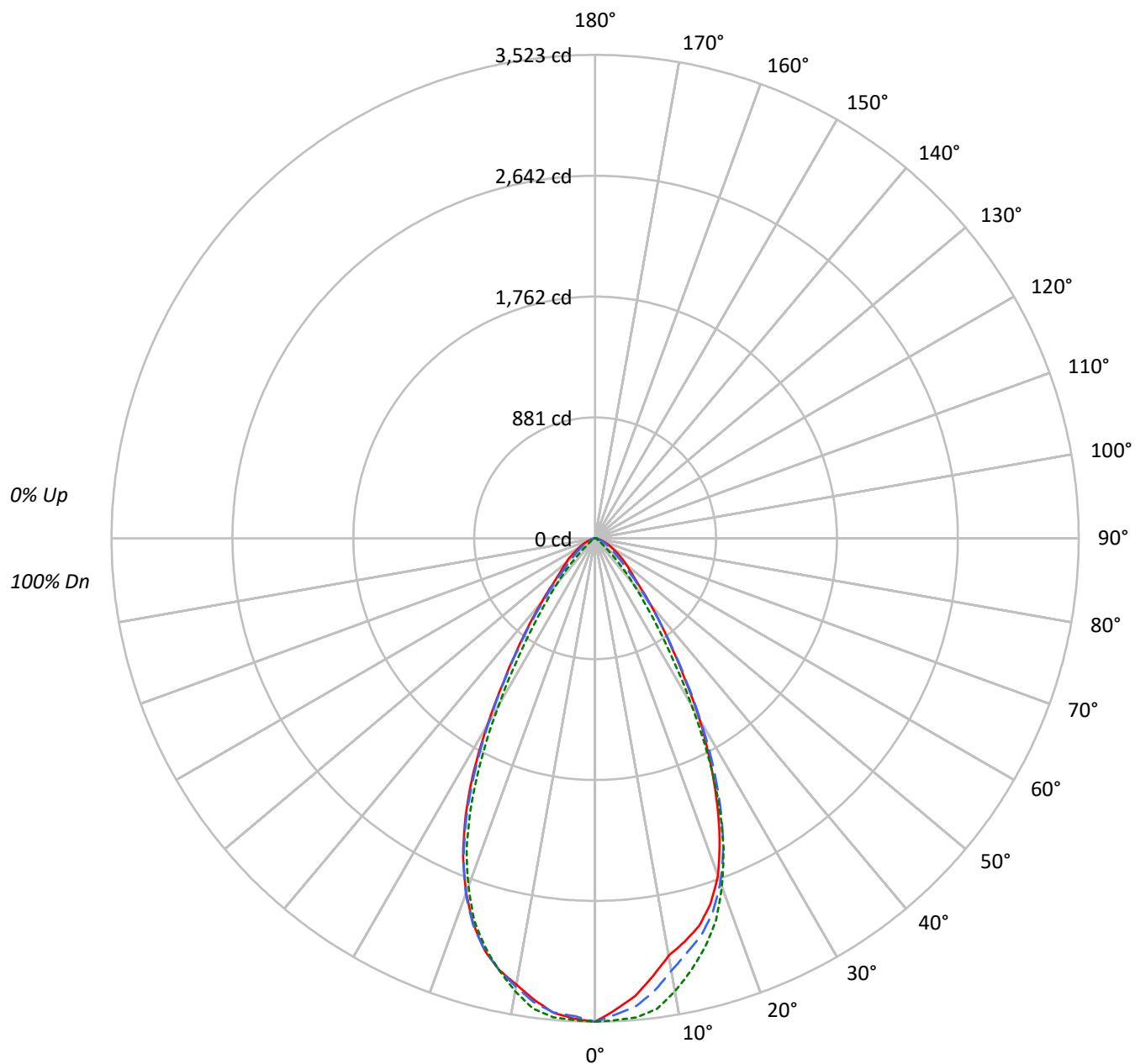
Lumens per Lamp: N/A
Luminaire Lumens: 3207.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	432788	432788	432788
5°	412971	432098	428078
10°	385174	418095	411983
15°	371946	392703	395476
20°	342141	352809	359202
25°	283565	288730	302746
30°	215725	199510	221896
35°	146062	119546	147697
40°	99464	68496	96417
45°	69010	34505	65222
50°	56153	14029	52521
55°	45451	8739	41360
60°	36094	6683	32753
65°	28459	5523	25320
70°	21480	4885	19540
75°	15474	3892	14193
80°	11532	3820	9622
85°	7612	3806	7612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	10.1
10°-20°	851.0	26.5
20°-30°	976.4	30.4
30°-40°	593.2	18.5
40°-50°	254.2	7.9
50°-60°	121.9	3.8
60°-70°	59.3	1.8
70°-80°	22.0	0.7
80°-90°	5.1	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°	2151.3	67.1
0°-40°	2744.5	85.6
0°-60°	3120.6	97.3
0°-90°	3207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3523	3523	3523	3523	3523	
5°	3349	3422	3504	3468	3471	311
15°	2924	2992	3088	3107	3109	814
25°	2092	2160	2130	2212	2233	949
35°	974	988	797	963	985	624
45°	397	354	199	318	375	323
55°	212	158	41	142	193	192
65°	98	65	19	60	87	99
75°	33	22	8	19	30	36
85°	5	5	3	3	5	7
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°	3522.8	3522.8	3522.8	3522.8	3522.8	3522.8	3522.8	3522.8	3522.8
2.5°	3438.5	3476.6	3473.9	3506.5	3514.7	3506.5	3484.8	3506.5	3503.8
5°	3348.7	3392.3	3422.2	3476.6	3503.8	3498.4	3468.4	3473.9	3471.2
7.5°	3218.2	3272.6	3324.3	3405.9	3457.6	3454.8	3411.3	3403.1	3392.3
10°	3087.6	3139.3	3199.1	3283.5	3351.5	3362.3	3318.8	3307.9	3302.5
12.5°	3011.4	3052.2	3093.0	3166.5	3226.3	3248.1	3223.6	3226.3	3223.6
15°	2924.4	2965.2	2992.4	3046.8	3087.6	3117.5	3106.6	3123.0	3109.4
17.5°	2793.8	2842.8	2853.6	2894.4	2924.4	2943.4	2954.3	2970.6	2948.9
20°	2617.0	2655.1	2668.7	2685.0	2698.6	2723.1	2755.7	2772.0	2747.5
22.5°	2369.4	2442.9	2440.1	2432.0	2445.6	2453.7	2505.4	2532.6	2513.6
25°	2091.9	2168.1	2160.0	2127.3	2130.0	2146.3	2211.6	2247.0	2233.4
27.5°	1800.9	1871.6	1852.6	1790.0	1773.7	1798.1	1882.5	1923.3	1915.1
30°	1520.7	1566.9	1537.0	1425.5	1406.4	1436.3	1545.2	1586.0	1564.2
32.5°	1218.7	1254.1	1240.5	1104.5	1071.8	1101.7	1229.6	1267.7	1243.2
35°	973.9	1006.5	987.5	827.0	797.1	829.7	963.0	1006.5	984.8
37.5°	780.7	805.2	780.7	609.4	582.2	614.8	742.7	799.8	772.6
40°	620.2	639.3	606.6	448.9	427.1	443.4	563.1	620.2	601.2
42.5°	489.7	503.3	467.9	329.2	304.7	326.4	424.4	476.1	465.2
45°	397.2	397.2	353.6	228.5	198.6	220.3	318.3	372.7	375.4
47.5°	340.0	331.9	277.5	152.3	114.3	144.2	253.0	310.1	318.3
50°	293.8	282.9	228.5	111.5	73.4	103.4	209.5	266.6	274.8
52.5°	253.0	244.8	190.4	87.1	51.7	78.9	176.8	231.2	239.4
55°	212.2	206.7	157.8	68.0	40.8	59.8	141.5	187.7	193.1
57.5°	174.1	165.9	127.9	57.1	32.6	49.0	117.0	155.1	160.5
60°	146.9	138.7	103.4	46.2	27.2	38.1	95.2	127.9	133.3
62.5°	122.4	114.3	84.3	38.1	21.8	32.6	76.2	103.4	108.8
65°	97.9	92.5	65.3	29.9	19.0	24.5	59.8	81.6	87.1
67.5°	78.9	73.4	51.7	24.5	16.3	19.0	46.2	65.3	70.7
70°	59.8	54.4	38.1	19.0	13.6	16.3	35.4	49.0	54.4
72.5°	43.5	40.8	29.9	16.3	10.9	13.6	24.5	35.4	40.8
75°	32.6	29.9	21.8	10.9	8.2	10.9	19.0	27.2	29.9
77.5°	21.8	21.8	16.3	8.2	8.2	8.2	13.6	19.0	19.0
80°	16.3	13.6	10.9	5.4	5.4	5.4	8.2	13.6	13.6
82.5°	10.9	8.2	8.2	5.4	5.4	5.4	5.4	8.2	8.2
85°	5.4	5.4	5.4	2.7	2.7	2.7	2.7	5.4	5.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
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)