

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: P857886

Luminaire Tested: **LD4C40D010 EU4409027 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P857886
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 EU4409027 4LBMDSWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

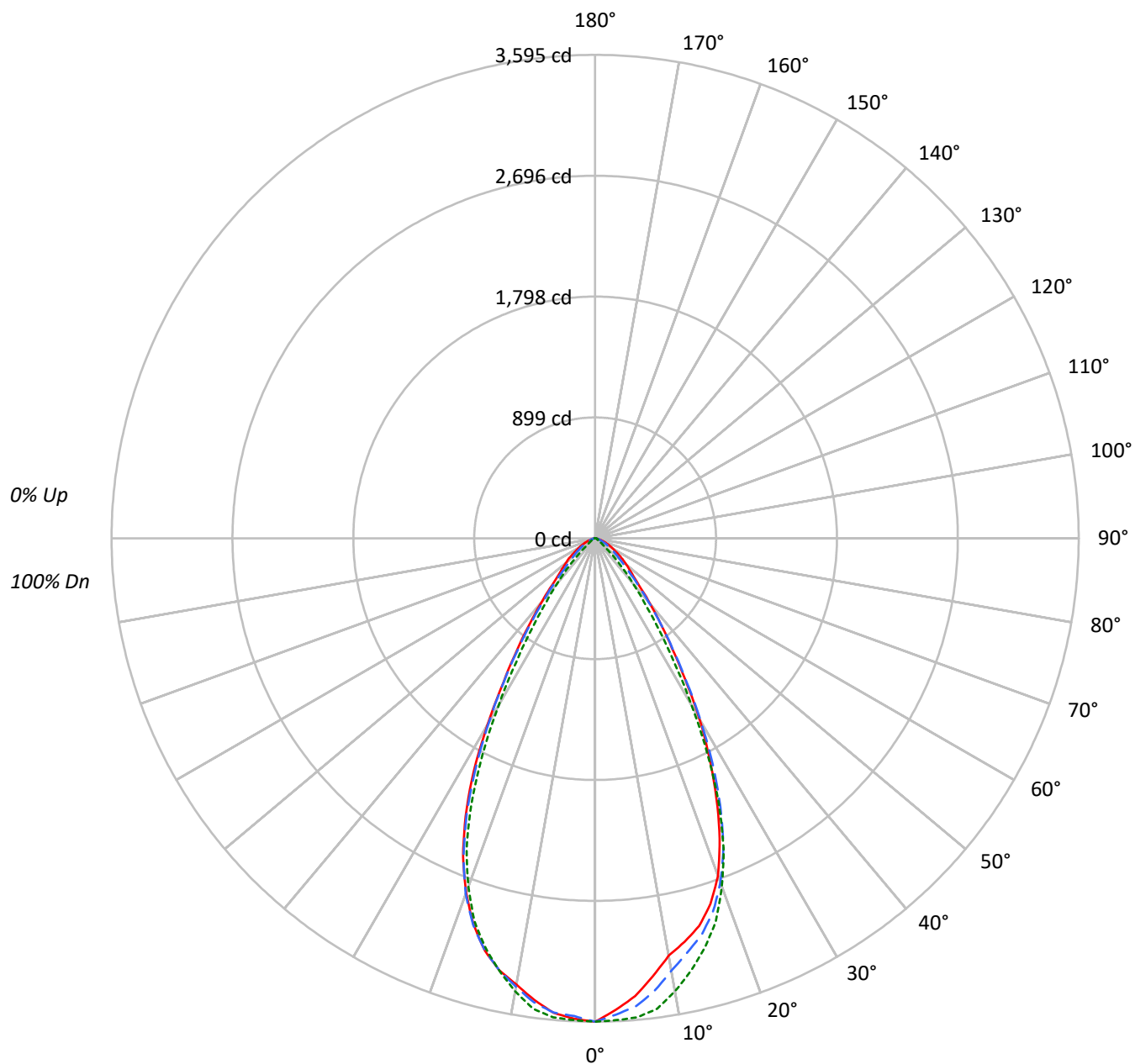
Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	441695	441695	441695
5°	421480	440990	436883
10°	393096	426690	420465
15°	379603	400780	403603
20°	349175	360065	366602
25°	289407	294680	308981
30°	220165	203624	226464
35°	149062	122006	150726
40°	101517	69907	98405
45°	70417	35217	66560
50°	57300	14334	53592
55°	46393	8910	42217
60°	36831	6831	33416
65°	29041	5640	25814
70°	21947	4993	19936
75°	15806	3940	14477
80°	11815	3962	9834
85°	7894	3947	7894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	10.1
10°-20°	868.5	26.5
20°-30°	996.5	30.4
30°-40°	605.4	18.5
40°-50°	259.4	7.9
50°-60°	124.5	3.8
60°-70°	60.5	1.8
70°-80°	22.5	0.7
80°-90°	5.2	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°	2195.6	67.1
0°-40°	2801.0	85.6
0°-60°	3184.9	97.3
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3595	3595	3595	3595	3595	
5°	3418	3493	3576	3540	3543	318
15°	2985	3054	3151	3171	3173	831
25°	2135	2204	2174	2257	2279	969
35°	994	1008	814	983	1005	637
45°	405	361	203	325	383	329
55°	217	161	42	144	197	195
65°	100	67	19	61	89	101
75°	33	22	8	19	30	37
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°	3595.3	3595.3	3595.3	3595.3	3595.3	3595.3	3595.3	3595.3	3595.3
2.5°	3509.3	3548.1	3545.4	3578.7	3587.0	3578.7	3556.5	3578.7	3575.9
5°	3417.7	3462.1	3492.6	3548.1	3575.9	3570.4	3539.8	3545.4	3542.6
7.5°	3284.4	3339.9	3392.7	3476.0	3528.7	3525.9	3481.5	3473.2	3462.1
10°	3151.1	3203.9	3265.0	3351.0	3420.4	3431.5	3387.1	3376.0	3370.5
12.5°	3073.4	3115.0	3156.7	3231.6	3292.7	3314.9	3289.9	3292.7	3289.9
15°	2984.6	3026.2	3054.0	3109.5	3151.1	3181.7	3170.6	3187.2	3173.3
17.5°	2851.3	2901.3	2912.4	2954.0	2984.6	3004.0	3015.1	3031.7	3009.5
20°	2670.8	2709.7	2723.6	2740.2	2754.1	2779.1	2812.4	2829.1	2804.1
22.5°	2418.2	2493.1	2490.4	2482.0	2495.9	2504.2	2557.0	2584.8	2565.3
25°	2135.0	2212.7	2204.4	2171.1	2173.9	2190.5	2257.2	2293.2	2279.4
27.5°	1837.9	1910.1	1890.7	1826.8	1810.2	1835.2	1921.2	1962.9	1954.5
30°	1552.0	1599.2	1568.6	1454.8	1435.4	1465.9	1577.0	1618.6	1596.4
32.5°	1243.8	1279.9	1266.0	1127.2	1093.9	1124.4	1254.9	1293.8	1268.8
35°	993.9	1027.2	1007.8	844.0	813.5	846.8	982.8	1027.2	1005.0
37.5°	796.8	821.8	796.8	621.9	594.1	627.4	757.9	816.2	788.5
40°	633.0	652.4	619.1	458.1	435.9	452.5	574.7	633.0	613.6
42.5°	499.7	513.6	477.5	335.9	310.9	333.2	433.1	485.9	474.8
45°	405.3	405.3	360.9	233.2	202.7	224.9	324.8	380.4	383.1
47.5°	347.0	338.7	283.2	155.5	116.6	147.1	258.2	316.5	324.8
50°	299.8	288.7	233.2	113.8	75.0	105.5	213.8	272.1	280.4
52.5°	258.2	249.9	194.3	88.8	52.8	80.5	180.5	236.0	244.3
55°	216.6	211.0	161.0	69.4	41.6	61.1	144.4	191.6	197.1
57.5°	177.7	169.4	130.5	58.3	33.3	50.0	119.4	158.3	163.8
60°	149.9	141.6	105.5	47.2	27.8	38.9	97.2	130.5	136.0
62.5°	124.9	116.6	86.1	38.9	22.2	33.3	77.7	105.5	111.1
65°	99.9	94.4	66.6	30.5	19.4	25.0	61.1	83.3	88.8
67.5°	80.5	75.0	52.8	25.0	16.7	19.4	47.2	66.6	72.2
70°	61.1	55.5	38.9	19.4	13.9	16.7	36.1	50.0	55.5
72.5°	44.4	41.6	30.5	16.7	11.1	13.9	25.0	36.1	41.6
75°	33.3	30.5	22.2	11.1	8.3	11.1	19.4	27.8	30.5
77.5°	22.2	22.2	16.7	8.3	8.3	8.3	13.9	19.4	19.4
80°	16.7	13.9	11.1	5.6	5.6	5.6	8.3	13.9	13.9
82.5°	11.1	8.3	8.3	5.6	5.6	5.6	5.6	8.3	8.3
85°	5.6	5.6	5.6	2.8	2.8	2.8	2.8	5.6	5.6
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)