

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: P856713

Luminaire Tested: **LD4C10D010 EU4109030 4LBMDSWWH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856713
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: LD4C10D010 EU4109030 4LBMDSWWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WH FINISH
Light Source: -
Ballast/Driver: -

Summary

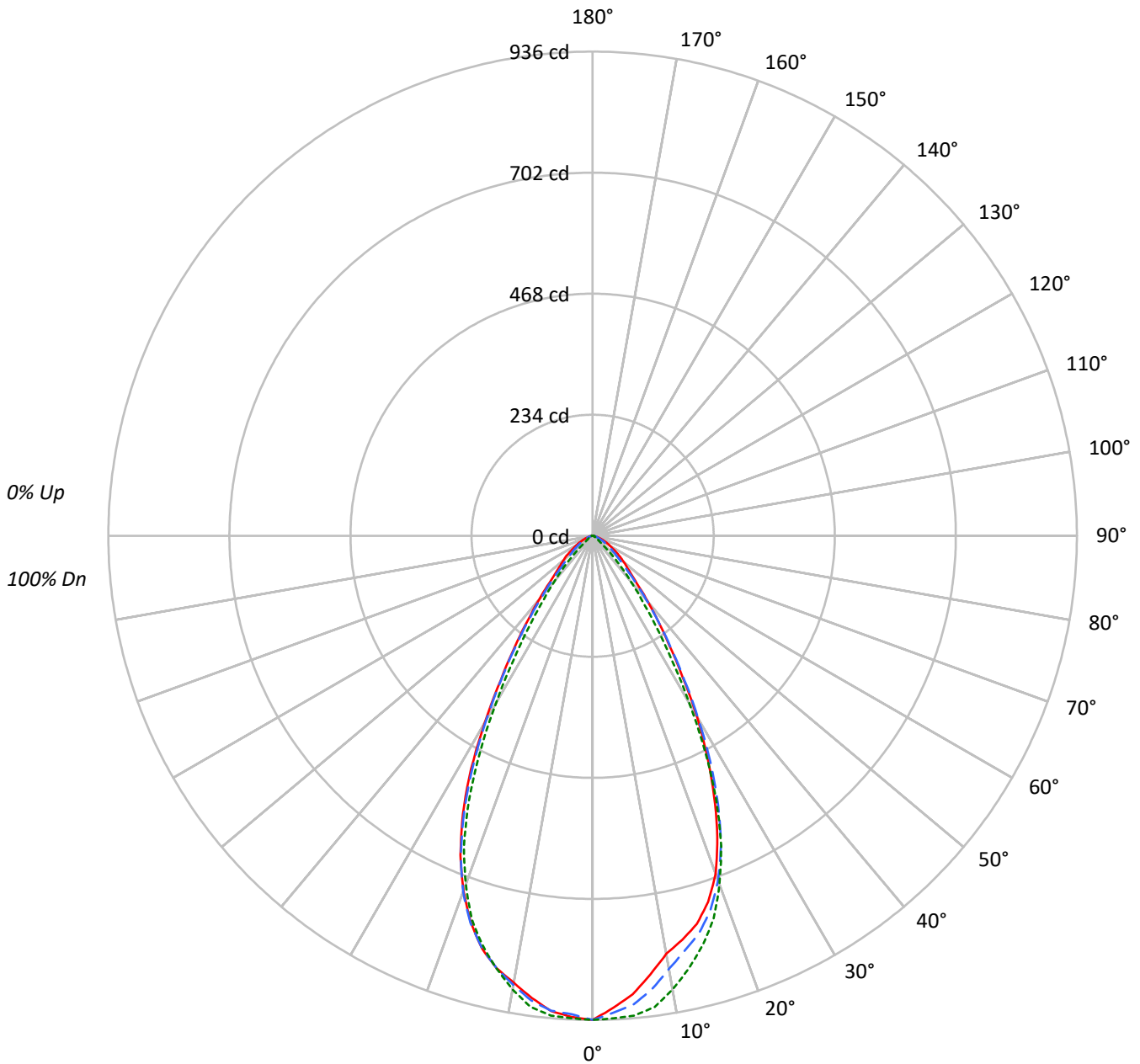
Lumens per Lamp: N/A
Luminaire Lumens: 852.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V): NR
Input Current (A_{in}): 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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
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°	114979	114979	114979
5°	109720	114801	113728
10°	102331	111076	109454
15°	98812	104332	105069
20°	90889	93726	95426
25°	75341	76710	80424
30°	57311	52999	58957
35°	38799	31765	39234
40°	26430	18202	25612
45°	18330	9174	17322
50°	14927	3727	13952
55°	12080	2313	10988
60°	9583	1769	8698
65°	7558	1483	6715
70°	5711	1293	5208
75°	4130	1044	3750
80°	3042	990	2547
85°	1973	987	1973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	10.1
10°-20°	226.1	26.5
20°-30°	259.4	30.4
30°-40°	157.6	18.5
40°-50°	67.5	7.9
50°-60°	32.4	3.8
60°-70°	15.8	1.8
70°-80°	5.8	0.7
80°-90°	1.3	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°	571.5	67.1
0°-40°	729.1	85.6
0°-60°	829.1	97.3
0°-90°	852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	936	936	936	936	936	
5°	890	909	931	922	922	83
15°	777	795	820	825	826	216
25°	556	574	566	588	593	252
35°	259	262	212	256	262	166
45°	106	94	53	85	100	86
55°	56	42	11	38	51	51
65°	26	17	5	16	23	26
75°	9	6	2	5	8	10
85°	1	1	1	1	1	2
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°	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9	935.9
2.5°	913.5	923.6	922.9	931.6	933.7	931.6	925.8	931.6	930.9
5°	889.7	901.2	909.2	923.6	930.9	929.4	921.5	922.9	922.2
7.5°	855.0	869.4	883.2	904.8	918.6	917.8	906.3	904.1	901.2
10°	820.3	834.0	849.9	872.3	890.4	893.3	881.7	878.8	877.4
12.5°	800.0	810.9	821.7	841.2	857.1	862.9	856.4	857.1	856.4
15°	776.9	787.8	795.0	809.4	820.3	828.2	825.3	829.7	826.1
17.5°	742.2	755.2	758.1	769.0	776.9	782.0	784.9	789.2	783.4
20°	695.2	705.4	709.0	713.3	716.9	723.4	732.1	736.4	729.9
22.5°	629.5	649.0	648.3	646.1	649.7	651.9	665.6	672.8	667.8
25°	555.8	576.0	573.8	565.2	565.9	570.2	587.6	597.0	593.3
27.5°	478.4	497.2	492.2	475.5	471.2	477.7	500.1	511.0	508.8
30°	404.0	416.3	408.3	378.7	373.6	381.6	410.5	421.3	415.6
32.5°	323.8	333.2	329.6	293.4	284.7	292.7	326.7	336.8	330.3
35°	258.7	267.4	262.3	219.7	211.8	220.4	255.8	267.4	261.6
37.5°	207.4	213.9	207.4	161.9	154.7	163.3	197.3	212.5	205.2
40°	164.8	169.8	161.2	119.2	113.5	117.8	149.6	164.8	159.7
42.5°	130.1	133.7	124.3	87.4	80.9	86.7	112.7	126.5	123.6
45°	105.5	105.5	94.0	60.7	52.8	58.5	84.6	99.0	99.7
47.5°	90.3	88.2	73.7	40.5	30.4	38.3	67.2	82.4	84.6
50°	78.1	75.2	60.7	29.6	19.5	27.5	55.6	70.8	73.0
52.5°	67.2	65.0	50.6	23.1	13.7	21.0	47.0	61.4	63.6
55°	56.4	54.9	41.9	18.1	10.8	15.9	37.6	49.9	51.3
57.5°	46.3	44.1	34.0	15.2	8.7	13.0	31.1	41.2	42.6
60°	39.0	36.9	27.5	12.3	7.2	10.1	25.3	34.0	35.4
62.5°	32.5	30.4	22.4	10.1	5.8	8.7	20.2	27.5	28.9
65°	26.0	24.6	17.3	7.9	5.1	6.5	15.9	21.7	23.1
67.5°	21.0	19.5	13.7	6.5	4.3	5.1	12.3	17.3	18.8
70°	15.9	14.5	10.1	5.1	3.6	4.3	9.4	13.0	14.5
72.5°	11.6	10.8	7.9	4.3	2.9	3.6	6.5	9.4	10.8
75°	8.7	7.9	5.8	2.9	2.2	2.9	5.1	7.2	7.9
77.5°	5.8	5.8	4.3	2.2	2.2	2.2	3.6	5.1	5.1
80°	4.3	3.6	2.9	1.4	1.4	1.4	2.2	3.6	3.6
82.5°	2.9	2.2	2.2	1.4	1.4	1.4	1.4	2.2	2.2
85°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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)