

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: P856733

Luminaire Tested: **LD4C10D010 EU4109035 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856733
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 EU4109035 4LBMDSWGPH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

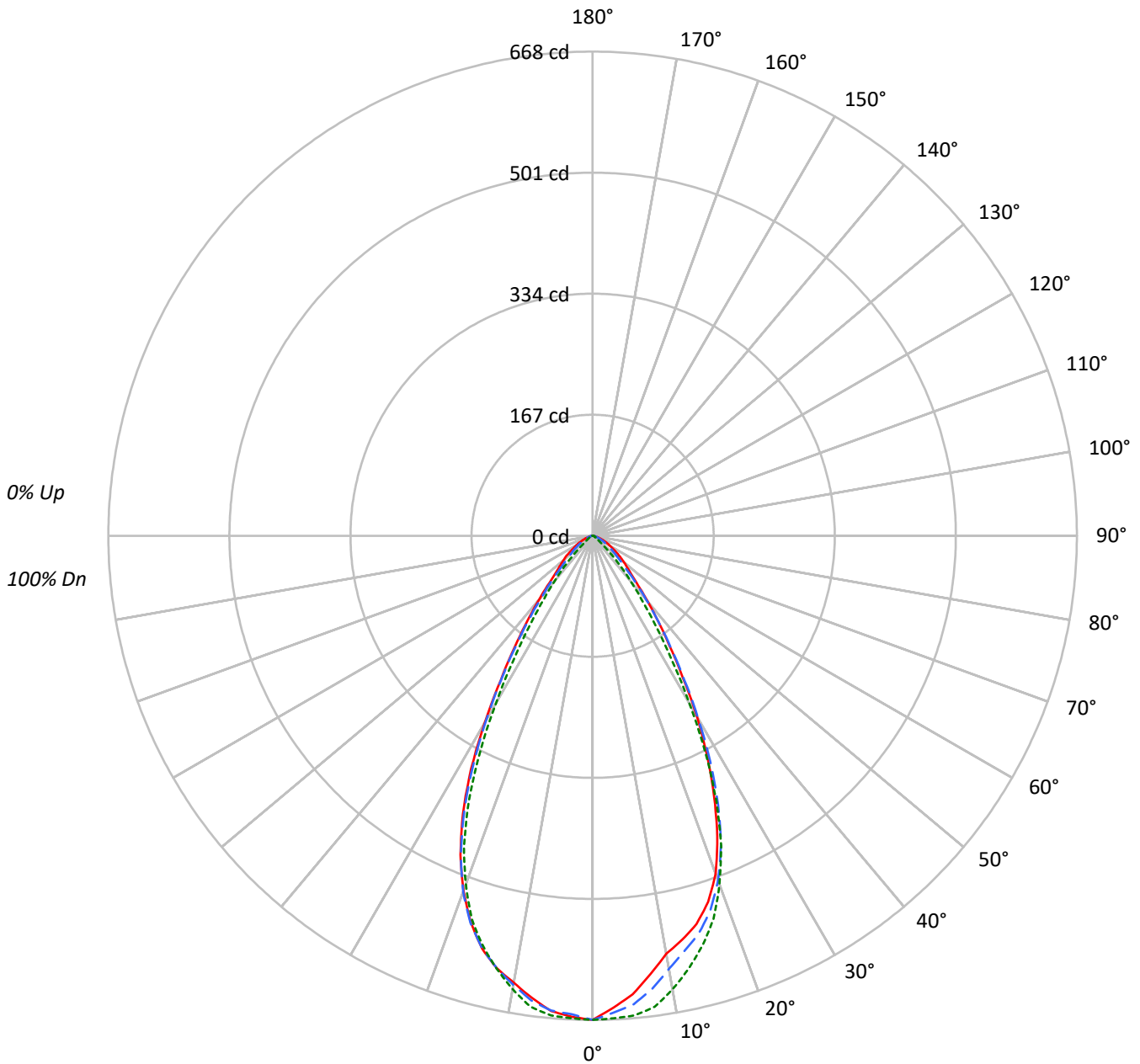
Lumens per Lamp: N/A
Luminaire Lumens: 608.0 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82054	82054	82054
5°	78298	81923	81159
10°	73028	79265	78105
15°	70513	74455	74977
20°	64859	66886	68101
25°	53761	54737	57393
30°	40898	37820	42061
35°	27686	22661	28001
40°	18860	12990	18283
45°	13083	6533	12370
50°	10646	2657	9958
55°	8610	1649	7839
60°	6831	1278	6216
65°	5407	1047	4796
70°	4059	934	3700
75°	2943	712	2706
80°	2193	707	1839
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	10.1
10°-20°	161.3	26.5
20°-30°	185.1	30.4
30°-40°	112.5	18.5
40°-50°	48.2	7.9
50°-60°	23.1	3.8
60°-70°	11.2	1.8
70°-80°	4.2	0.7
80°-90°	0.9	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°	407.9	67.1
0°-40°	520.3	85.6
0°-60°	591.6	97.3
0°-90°	608.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	668	668	668	668	668	
5°	635	649	664	658	658	59
15°	554	567	585	589	590	154
25°	397	410	404	419	423	180
35°	185	187	151	183	187	118
45°	75	67	38	60	71	61
55°	40	30	8	27	37	36
65°	19	12	4	11	16	19
75°	6	4	2	4	6	7
85°	1	1	0	0	1	1
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°	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9	667.9
2.5°	651.9	659.1	658.6	664.8	666.3	664.8	660.7	664.8	664.3
5°	634.9	643.1	648.8	659.1	664.3	663.2	657.6	658.6	658.1
7.5°	610.1	620.4	630.2	645.7	655.5	655.0	646.7	645.2	643.1
10°	585.4	595.2	606.5	622.5	635.4	637.5	629.2	627.1	626.1
12.5°	570.9	578.7	586.4	600.3	611.7	615.8	611.1	611.7	611.1
15°	554.4	562.2	567.3	577.6	585.4	591.0	589.0	592.1	589.5
17.5°	529.7	538.9	541.0	548.7	554.4	558.0	560.1	563.2	559.1
20°	496.1	503.4	505.9	509.0	511.6	516.3	522.4	525.5	520.9
22.5°	449.2	463.1	462.6	461.1	463.6	465.2	475.0	480.2	476.5
25°	396.6	411.0	409.5	403.3	403.8	406.9	419.3	426.0	423.4
27.5°	341.4	354.8	351.2	339.4	336.3	340.9	356.9	364.6	363.1
30°	288.3	297.1	291.4	270.2	266.6	272.3	292.9	300.7	296.5
32.5°	231.1	237.8	235.2	209.4	203.2	208.9	233.1	240.3	235.7
35°	184.6	190.8	187.2	156.8	151.1	157.3	182.6	190.8	186.7
37.5°	148.0	152.7	148.0	115.5	110.4	116.6	140.8	151.6	146.5
40°	117.6	121.2	115.0	85.1	81.0	84.1	106.8	117.6	114.0
42.5°	92.8	95.4	88.7	62.4	57.8	61.9	80.5	90.3	88.2
45°	75.3	75.3	67.0	43.3	37.6	41.8	60.3	70.7	71.2
47.5°	64.5	62.9	52.6	28.9	21.7	27.3	48.0	58.8	60.3
50°	55.7	53.6	43.3	21.1	13.9	19.6	39.7	50.5	52.1
52.5°	48.0	46.4	36.1	16.5	9.8	15.0	33.5	43.8	45.4
55°	40.2	39.2	29.9	12.9	7.7	11.3	26.8	35.6	36.6
57.5°	33.0	31.5	24.2	10.8	6.2	9.3	22.2	29.4	30.4
60°	27.8	26.3	19.6	8.8	5.2	7.2	18.1	24.2	25.3
62.5°	23.2	21.7	16.0	7.2	4.1	6.2	14.4	19.6	20.6
65°	18.6	17.5	12.4	5.7	3.6	4.6	11.3	15.5	16.5
67.5°	15.0	13.9	9.8	4.6	3.1	3.6	8.8	12.4	13.4
70°	11.3	10.3	7.2	3.6	2.6	3.1	6.7	9.3	10.3
72.5°	8.3	7.7	5.7	3.1	2.1	2.6	4.6	6.7	7.7
75°	6.2	5.7	4.1	2.1	1.5	2.1	3.6	5.2	5.7
77.5°	4.1	4.1	3.1	1.5	1.5	1.5	2.6	3.6	3.6
80°	3.1	2.6	2.1	1.0	1.0	1.0	1.5	2.6	2.6
82.5°	2.1	1.5	1.5	1.0	1.0	1.0	1.0	1.5	1.5
85°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)