

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: P856709

Luminaire Tested: **LD4C10D010 EU4109030 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856709
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 4LBMDSWGPH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

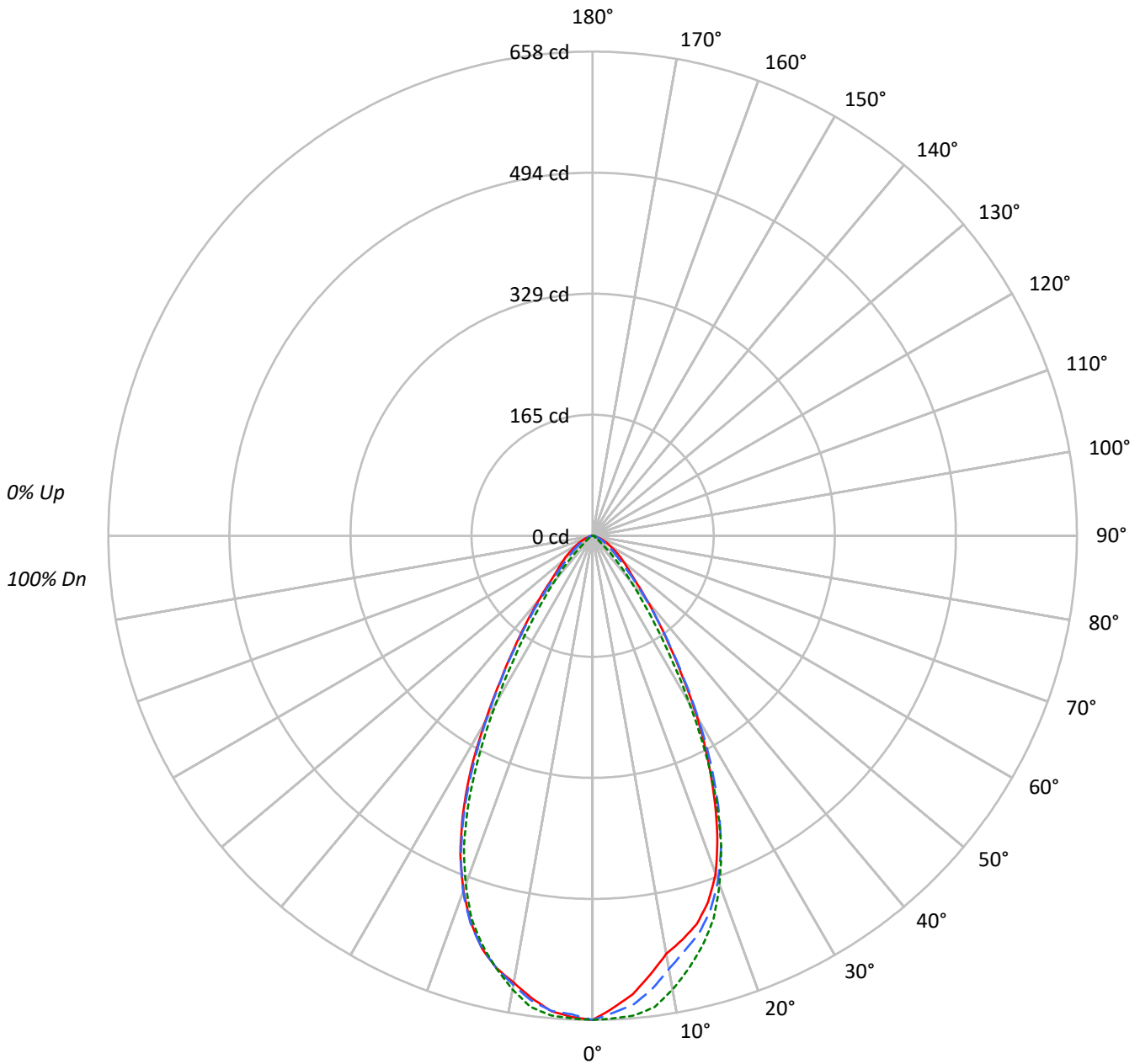
Lumens per Lamp: N/A
Luminaire Lumens: 599.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	80838	80838	80838
5°	77138	80702	79950
10°	71943	78093	76945
15°	69470	73349	73870
20°	63905	65892	67095
25°	52961	53923	56553
30°	40288	37266	41451
35°	27281	22331	27581
40°	18571	12798	18010
45°	12892	6446	12179
50°	10493	2618	9805
55°	8482	1628	7732
60°	6732	1253	6118
65°	5320	1047	4738
70°	4023	898	3664
75°	2895	712	2658
80°	2122	707	1769
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	10.1
10°-20°	159.0	26.5
20°-30°	182.4	30.4
30°-40°	110.8	18.5
40°-50°	47.5	7.9
50°-60°	22.8	3.8
60°-70°	11.1	1.8
70°-80°	4.1	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°	401.8	67.1
0°-40°	512.6	85.6
0°-60°	582.9	97.3
0°-90°	599.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	599.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	658	658	658	658	658	
5°	626	639	654	648	648	58
15°	546	559	577	580	581	152
25°	391	403	398	413	417	177
35°	182	184	149	180	184	117
45°	74	66	37	59	70	60
55°	40	30	8	26	36	36
65°	18	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°	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0	658.0
2.5°	642.2	649.4	648.8	654.9	656.5	654.9	650.9	654.9	654.4
5°	625.5	633.6	639.2	649.4	654.4	653.4	647.8	648.8	648.3
7.5°	601.1	611.2	620.9	636.1	645.8	645.3	637.2	635.6	633.6
10°	576.7	586.4	597.5	613.3	626.0	628.0	619.9	617.9	616.8
12.5°	562.5	570.1	577.7	591.4	602.6	606.7	602.1	602.6	602.1
15°	546.2	553.8	558.9	569.1	576.7	582.3	580.3	583.3	580.8
17.5°	521.8	531.0	533.0	540.6	546.2	549.8	551.8	554.8	550.8
20°	488.8	495.9	498.4	501.5	504.0	508.6	514.7	517.8	513.2
22.5°	442.6	456.3	455.8	454.2	456.8	458.3	468.0	473.0	469.5
25°	390.7	405.0	403.4	397.3	397.8	400.9	413.1	419.7	417.2
27.5°	336.4	349.6	346.0	334.3	331.3	335.9	351.6	359.2	357.7
30°	284.0	292.7	287.1	266.2	262.7	268.3	288.6	296.2	292.2
32.5°	227.6	234.2	231.7	206.3	200.2	205.8	229.7	236.8	232.2
35°	181.9	188.0	184.4	154.5	148.9	155.0	179.9	188.0	183.9
37.5°	145.8	150.4	145.8	113.8	108.7	114.8	138.7	149.4	144.3
40°	115.8	119.4	113.3	83.8	79.8	82.8	105.2	115.8	112.3
42.5°	91.5	94.0	87.4	61.5	56.9	61.0	79.3	88.9	86.9
45°	74.2	74.2	66.1	42.7	37.1	41.2	59.4	69.6	70.1
47.5°	63.5	62.0	51.8	28.5	21.3	26.9	47.3	57.9	59.4
50°	54.9	52.8	42.7	20.8	13.7	19.3	39.1	49.8	51.3
52.5°	47.3	45.7	35.6	16.3	9.7	14.7	33.0	43.2	44.7
55°	39.6	38.6	29.5	12.7	7.6	11.2	26.4	35.1	36.1
57.5°	32.5	31.0	23.9	10.7	6.1	9.1	21.8	29.0	30.0
60°	27.4	25.9	19.3	8.6	5.1	7.1	17.8	23.9	24.9
62.5°	22.9	21.3	15.8	7.1	4.1	6.1	14.2	19.3	20.3
65°	18.3	17.3	12.2	5.6	3.6	4.6	11.2	15.2	16.3
67.5°	14.7	13.7	9.7	4.6	3.0	3.6	8.6	12.2	13.2
70°	11.2	10.2	7.1	3.6	2.5	3.0	6.6	9.1	10.2
72.5°	8.1	7.6	5.6	3.0	2.0	2.5	4.6	6.6	7.6
75°	6.1	5.6	4.1	2.0	1.5	2.0	3.6	5.1	5.6
77.5°	4.1	4.1	3.0	1.5	1.5	1.5	2.5	3.6	3.6
80°	3.0	2.5	2.0	1.0	1.0	1.0	1.5	2.5	2.5
82.5°	2.0	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)