

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: P856732

Luminaire Tested: **LD4C10D010 EU4109035 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856732
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 4LBMDDWLI
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

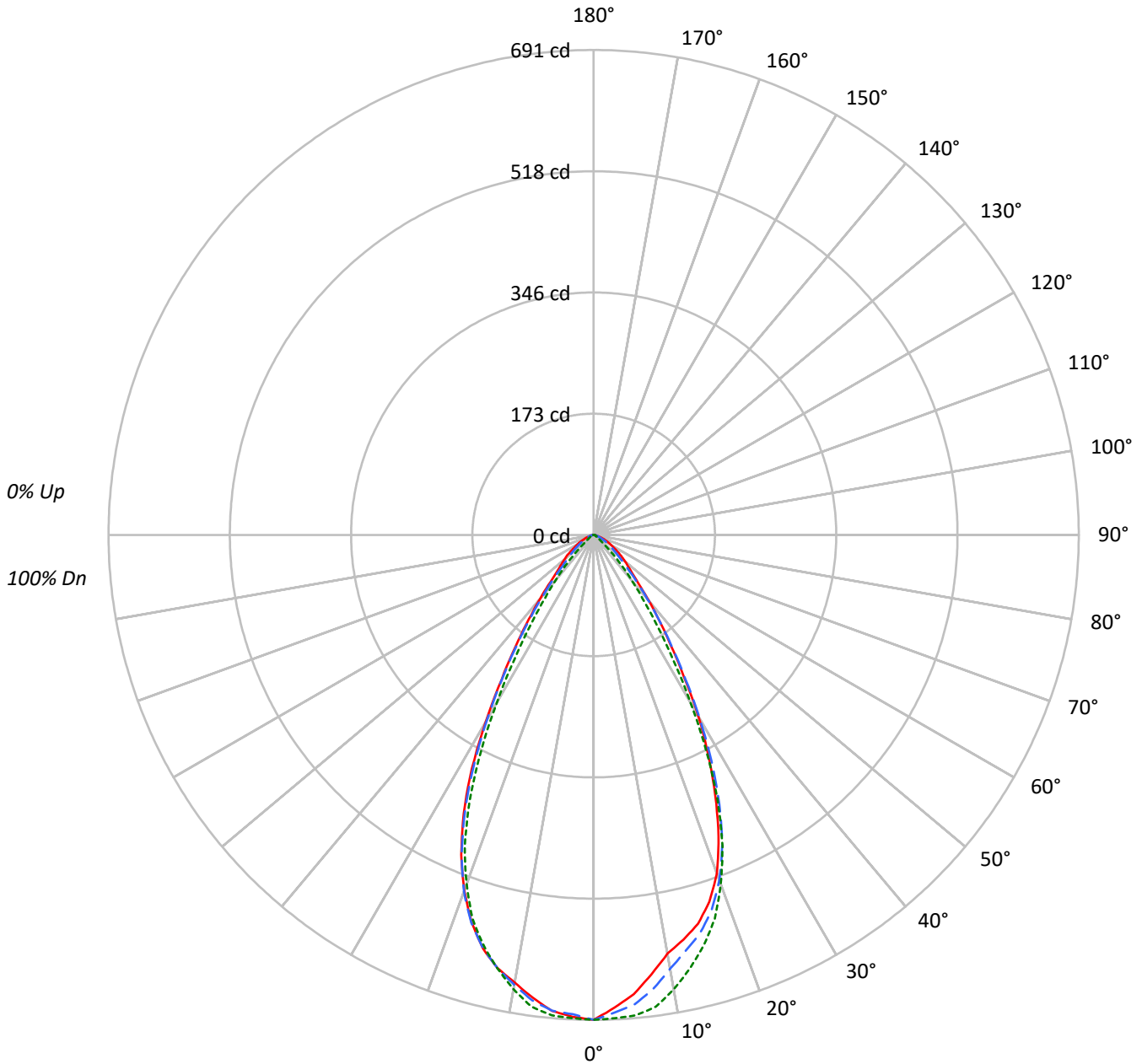
Lumens per Lamp: N/A
Luminaire Lumens: 629.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	84879	84879	84879
5°	80998	84747	83958
10°	75548	81997	80800
15°	72955	77025	77559
20°	67108	69200	70455
25°	55618	56634	59373
30°	42317	39125	43522
35°	28645	23441	28960
40°	19501	13439	18908
45°	13534	6759	12787
50°	11009	2752	10302
55°	8910	1714	8118
60°	7076	1302	6413
65°	5581	1076	4971
70°	4203	970	3843
75°	3038	759	2801
80°	2264	778	1910
85°	1551	705	1551



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	10.1
10°-20°	166.9	26.5
20°-30°	191.5	30.4
30°-40°	116.3	18.5
40°-50°	49.9	7.9
50°-60°	23.9	3.8
60°-70°	11.6	1.8
70°-80°	4.3	0.7
80°-90°	1.0	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°	421.9	67.1
0°-40°	538.3	85.6
0°-60°	612.1	97.3
0°-90°	629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	629.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	691	691	691	691	691	
5°	657	671	687	680	681	61
15°	574	587	606	609	610	160
25°	410	424	418	434	438	186
35°	191	194	156	189	193	122
45°	78	69	39	62	74	63
55°	42	31	8	28	38	38
65°	19	13	4	12	17	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°	690.9	690.9	690.9	690.9	690.9	690.9	690.9	690.9	690.9
2.5°	674.4	681.9	681.3	687.7	689.3	687.7	683.5	687.7	687.2
5°	656.8	665.3	671.2	681.9	687.2	686.1	680.3	681.3	680.8
7.5°	631.2	641.9	652.0	668.0	678.1	677.6	669.1	667.5	665.3
10°	605.6	615.7	627.5	644.0	657.3	659.5	650.9	648.8	647.7
12.5°	590.6	598.6	606.6	621.1	632.8	637.1	632.3	632.8	632.3
15°	573.6	581.6	586.9	597.6	605.6	611.4	609.3	612.5	609.8
17.5°	548.0	557.6	559.7	567.7	573.6	577.3	579.4	582.6	578.4
20°	513.3	520.7	523.4	526.6	529.3	534.1	540.5	543.7	538.9
22.5°	464.7	479.1	478.6	477.0	479.7	481.3	491.4	496.7	493.0
25°	410.3	425.2	423.6	417.2	417.8	421.0	433.8	440.7	438.0
27.5°	353.2	367.1	363.3	351.1	347.9	352.7	369.2	377.2	375.6
30°	298.3	307.3	301.5	279.6	275.8	281.7	303.1	311.1	306.8
32.5°	239.0	246.0	243.3	216.6	210.2	216.1	241.2	248.6	243.8
35°	191.0	197.4	193.7	162.2	156.3	162.7	188.9	197.4	193.1
37.5°	153.1	157.9	153.1	119.5	114.2	120.6	145.7	156.9	151.5
40°	121.6	125.4	119.0	88.0	83.8	87.0	110.4	121.6	117.9
42.5°	96.0	98.7	91.8	64.6	59.8	64.0	83.2	93.4	91.2
45°	77.9	77.9	69.4	44.8	38.9	43.2	62.4	73.1	73.6
47.5°	66.7	65.1	54.4	29.9	22.4	28.3	49.6	60.8	62.4
50°	57.6	55.5	44.8	21.9	14.4	20.3	41.1	52.3	53.9
52.5°	49.6	48.0	37.3	17.1	10.1	15.5	34.7	45.4	47.0
55°	41.6	40.5	30.9	13.3	8.0	11.7	27.7	36.8	37.9
57.5°	34.1	32.5	25.1	11.2	6.4	9.6	22.9	30.4	31.5
60°	28.8	27.2	20.3	9.1	5.3	7.5	18.7	25.1	26.1
62.5°	24.0	22.4	16.5	7.5	4.3	6.4	14.9	20.3	21.3
65°	19.2	18.1	12.8	5.9	3.7	4.8	11.7	16.0	17.1
67.5°	15.5	14.4	10.1	4.8	3.2	3.7	9.1	12.8	13.9
70°	11.7	10.7	7.5	3.7	2.7	3.2	6.9	9.6	10.7
72.5°	8.5	8.0	5.9	3.2	2.1	2.7	4.8	6.9	8.0
75°	6.4	5.9	4.3	2.1	1.6	2.1	3.7	5.3	5.9
77.5°	4.3	4.3	3.2	1.6	1.6	1.6	2.7	3.7	3.7
80°	3.2	2.7	2.1	1.1	1.1	1.1	1.6	2.7	2.7
82.5°	2.1	1.6	1.6	1.1	1.1	1.1	1.1	1.6	1.6
85°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.1	1.1
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)