

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: P859615

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859615
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: LD4C08D010 EU4089027 4LBMDDWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

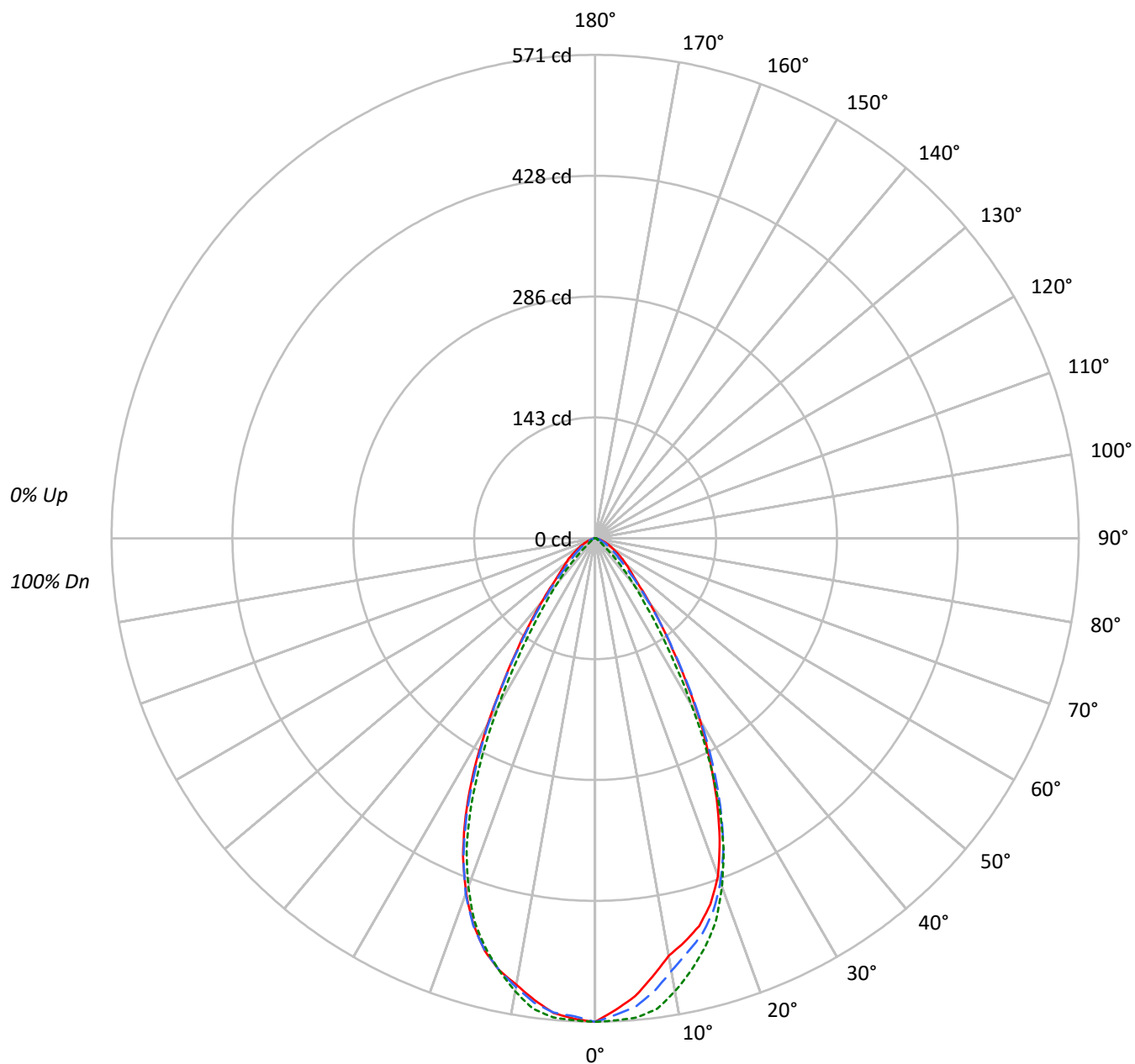
Lumens per Lamp: N/A
Luminaire Lumens: 520.0 lumens
Efficiency: N/A
Efficacy: 52.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	70174	70174	70174
5°	66964	70060	69406
10°	62449	67788	66803
15°	60312	63670	64128
20°	55472	57211	58244
25°	45980	46820	49084
30°	34982	32344	35975
35°	23681	19377	23951
40°	16134	11114	15636
45°	11189	5594	10581
50°	9098	2274	8524
55°	7368	1414	6704
60°	5848	1081	5307
65°	4622	901	4099
70°	3484	790	3161
75°	2516	617	2326
80°	1839	637	1556
85°	1269	564	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	10.1
10°-20°	138.0	26.5
20°-30°	158.3	30.4
30°-40°	96.2	18.5
40°-50°	41.2	7.9
50°-60°	19.8	3.8
60°-70°	9.6	1.8
70°-80°	3.6	0.7
80°-90°	0.8	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°	348.8	67.1
0°-40°	445.0	85.6
0°-60°	506.0	97.3
0°-90°	520.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	520.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	571	571	571	571	571	
5°	543	555	568	562	563	50
15°	474	485	501	504	504	132
25°	339	350	345	359	362	154
35°	158	160	129	156	160	101
45°	64	57	32	52	61	52
55°	34	26	7	23	31	31
65°	16	11	3	10	14	16
75°	5	4	1	3	5	6
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°	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2	571.2
2.5°	557.5	563.7	563.3	568.6	569.9	568.6	565.0	568.6	568.1
5°	543.0	550.0	554.9	563.7	568.1	567.2	562.4	563.3	562.8
7.5°	521.8	530.6	539.0	552.2	560.6	560.2	553.1	551.8	550.0
10°	500.6	509.0	518.7	532.4	543.4	545.2	538.1	536.4	535.5
12.5°	488.3	494.9	501.5	513.4	523.1	526.7	522.7	523.1	522.7
15°	474.2	480.8	485.2	494.0	500.6	505.5	503.7	506.4	504.2
17.5°	453.0	460.9	462.7	469.3	474.2	477.3	479.0	481.7	478.1
20°	424.3	430.5	432.7	435.4	437.6	441.5	446.8	449.5	445.5
22.5°	384.2	396.1	395.7	394.3	396.5	397.9	406.2	410.7	407.6
25°	339.2	351.5	350.2	344.9	345.4	348.0	358.6	364.3	362.1
27.5°	292.0	303.5	300.4	290.2	287.6	291.6	305.2	311.9	310.5
30°	246.6	254.1	249.2	231.1	228.0	232.9	250.5	257.2	253.6
32.5°	197.6	203.3	201.1	179.1	173.8	178.6	199.4	205.5	201.6
35°	157.9	163.2	160.1	134.1	129.2	134.5	156.1	163.2	159.7
37.5°	126.6	130.6	126.6	98.8	94.4	99.7	120.4	129.7	125.3
40°	100.6	103.7	98.4	72.8	69.3	71.9	91.3	100.6	97.5
42.5°	79.4	81.6	75.9	53.4	49.4	52.9	68.8	77.2	75.4
45°	64.4	64.4	57.3	37.1	32.2	35.7	51.6	60.4	60.9
47.5°	55.1	53.8	45.0	24.7	18.5	23.4	41.0	50.3	51.6
50°	47.6	45.9	37.1	18.1	11.9	16.8	34.0	43.2	44.6
52.5°	41.0	39.7	30.9	14.1	8.4	12.8	28.7	37.5	38.8
55°	34.4	33.5	25.6	11.0	6.6	9.7	22.9	30.4	31.3
57.5°	28.2	26.9	20.7	9.3	5.3	7.9	19.0	25.1	26.0
60°	23.8	22.5	16.8	7.5	4.4	6.2	15.4	20.7	21.6
62.5°	19.8	18.5	13.7	6.2	3.5	5.3	12.4	16.8	17.6
65°	15.9	15.0	10.6	4.9	3.1	4.0	9.7	13.2	14.1
67.5°	12.8	11.9	8.4	4.0	2.6	3.1	7.5	10.6	11.5
70°	9.7	8.8	6.2	3.1	2.2	2.6	5.7	7.9	8.8
72.5°	7.1	6.6	4.9	2.6	1.8	2.2	4.0	5.7	6.6
75°	5.3	4.9	3.5	1.8	1.3	1.8	3.1	4.4	4.9
77.5°	3.5	3.5	2.6	1.3	1.3	1.3	2.2	3.1	3.1
80°	2.6	2.2	1.8	0.9	0.9	0.9	1.3	2.2	2.2
82.5°	1.8	1.3	1.3	0.9	0.9	0.9	0.9	1.3	1.3
85°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.9	0.9
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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)