

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: P859684

Luminaire Tested: **LD4C08D010 EU4089040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859684
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 EU4089040 4LBMDDWLI
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

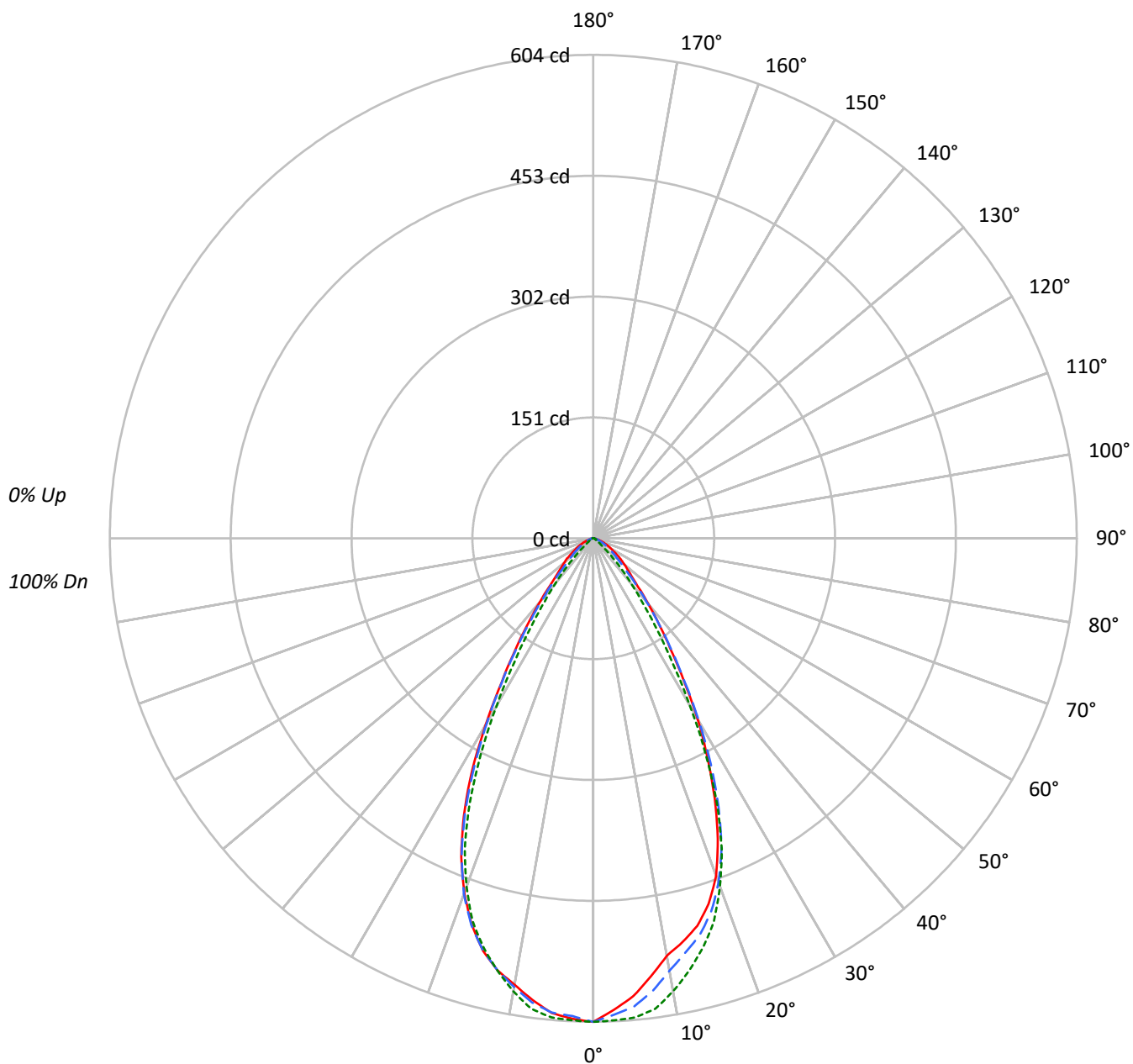
Lumens per Lamp: N/A
Luminaire Lumens: 550.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	74228	74228	74228
5°	70824	74105	73414
10°	66054	71706	70658
15°	63784	67346	67829
20°	58675	60506	61604
25°	48637	49518	51917
30°	36997	34216	38061
35°	25046	20502	25331
40°	17064	11739	16535
45°	11832	5925	11189
50°	9633	2408	9002
55°	7796	1499	7090
60°	6192	1155	5627
65°	4884	959	4331
70°	3700	826	3341
75°	2658	665	2421
80°	1981	637	1627
85°	1269	705	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.5	10.1
10°-20°	145.9	26.5
20°-30°	167.5	30.4
30°-40°	101.7	18.5
40°-50°	43.6	7.9
50°-60°	20.9	3.8
60°-70°	10.2	1.8
70°-80°	3.8	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°	369.0	67.1
0°-40°	470.7	85.6
0°-60°	535.2	97.3
0°-90°	550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	550.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	574	587	601	595	595	53
15°	502	513	530	533	533	140
25°	359	370	365	379	383	163
35°	167	169	137	165	169	107
45°	68	61	34	55	64	55
55°	36	27	7	24	33	33
65°	17	11	3	10	15	17
75°	6	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°	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2	604.2
2.5°	589.7	596.2	595.8	601.4	602.8	601.4	597.6	601.4	600.9
5°	574.3	581.8	586.9	596.2	600.9	600.0	594.8	595.8	595.3
7.5°	551.9	561.2	570.1	584.1	593.0	592.5	585.0	583.6	581.8
10°	529.5	538.4	548.6	563.1	574.8	576.6	569.2	567.3	566.4
12.5°	516.5	523.5	530.5	543.1	553.3	557.0	552.8	553.3	552.8
15°	501.5	508.5	513.2	522.5	529.5	534.7	532.8	535.6	533.3
17.5°	479.1	487.5	489.4	496.4	501.5	504.8	506.7	509.5	505.7
20°	448.8	455.3	457.7	460.5	462.8	467.0	472.6	475.4	471.2
22.5°	406.4	419.0	418.5	417.1	419.4	420.8	429.7	434.3	431.1
25°	358.8	371.8	370.4	364.8	365.3	368.1	379.3	385.4	383.0
27.5°	308.8	321.0	317.7	307.0	304.2	308.4	322.8	329.8	328.4
30°	260.8	268.7	263.6	244.5	241.2	246.3	265.0	272.0	268.3
32.5°	209.0	215.1	212.7	189.4	183.8	188.9	210.9	217.4	213.2
35°	167.0	172.6	169.4	141.8	136.7	142.3	165.2	172.6	168.9
37.5°	133.9	138.1	133.9	104.5	99.8	105.4	127.4	137.2	132.5
40°	106.4	109.6	104.0	77.0	73.2	76.0	96.6	106.4	103.1
42.5°	84.0	86.3	80.2	56.5	52.3	56.0	72.8	81.6	79.8
45°	68.1	68.1	60.6	39.2	34.1	37.8	54.6	63.9	64.4
47.5°	58.3	56.9	47.6	26.1	19.6	24.7	43.4	53.2	54.6
50°	50.4	48.5	39.2	19.1	12.6	17.7	35.9	45.7	47.1
52.5°	43.4	42.0	32.7	14.9	8.9	13.5	30.3	39.7	41.1
55°	36.4	35.5	27.1	11.7	7.0	10.3	24.3	32.2	33.1
57.5°	29.9	28.5	21.9	9.8	5.6	8.4	20.1	26.6	27.5
60°	25.2	23.8	17.7	7.9	4.7	6.5	16.3	21.9	22.9
62.5°	21.0	19.6	14.5	6.5	3.7	5.6	13.1	17.7	18.7
65°	16.8	15.9	11.2	5.1	3.3	4.2	10.3	14.0	14.9
67.5°	13.5	12.6	8.9	4.2	2.8	3.3	7.9	11.2	12.1
70°	10.3	9.3	6.5	3.3	2.3	2.8	6.1	8.4	9.3
72.5°	7.5	7.0	5.1	2.8	1.9	2.3	4.2	6.1	7.0
75°	5.6	5.1	3.7	1.9	1.4	1.9	3.3	4.7	5.1
77.5°	3.7	3.7	2.8	1.4	1.4	1.4	2.3	3.3	3.3
80°	2.8	2.3	1.9	0.9	0.9	0.9	1.4	2.3	2.3
82.5°	1.9	1.4	1.4	0.9	0.9	0.9	0.9	1.4	1.4
85°	0.9	0.9	0.9	0.5	0.5	0.5	0.5	0.9	0.9
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)