

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: P859616

Luminaire Tested: **LD4C08D010 EU4089027 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859616
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 4LBMDSWGPH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

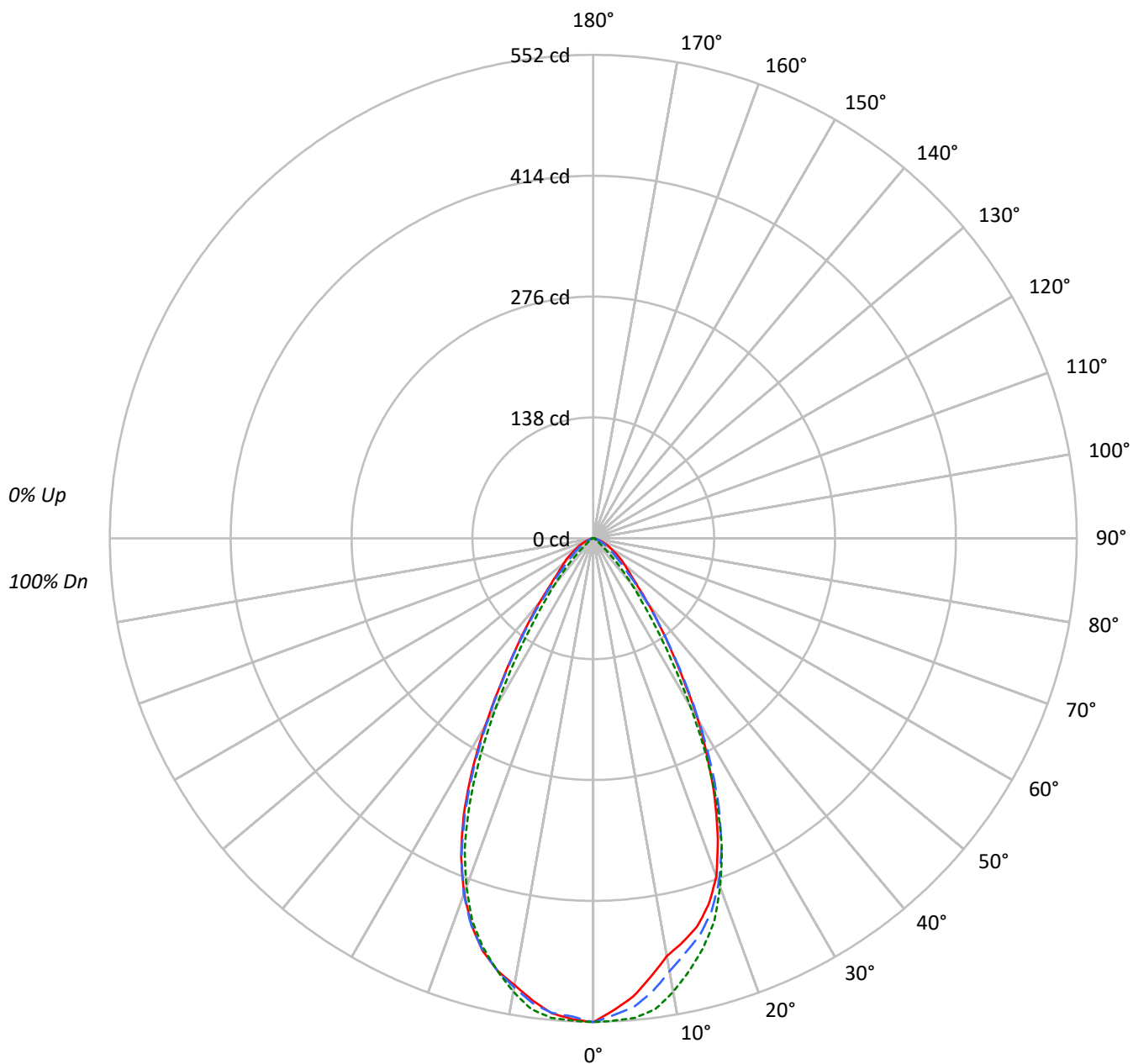
Lumens per Lamp: N/A
Luminaire Lumens: 503.0 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92		
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85		
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78		
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72		
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67		
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62		
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58		
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55		
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51		
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67877	67877	67877
5°	64769	67778	67137
10°	60416	65580	64620
15°	58341	61597	62029
20°	53668	55341	56335
25°	44475	45289	47485
30°	33833	31294	34798
35°	22901	18747	23171
40°	15604	10745	15123
45°	10824	5403	10233
50°	8811	2198	8238
55°	7132	1371	6490
60°	5651	1057	5135
65°	4477	872	3983
70°	3376	754	3053
75°	2421	617	2231
80°	1839	637	1486
85°	1269	564	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	10.1
10°-20°	133.5	26.5
20°-30°	153.1	30.4
30°-40°	93.0	18.5
40°-50°	39.9	7.9
50°-60°	19.1	3.8
60°-70°	9.3	1.8
70°-80°	3.5	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°	337.4	67.1
0°-40°	430.5	85.6
0°-60°	489.5	97.3
0°-90°	503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	525	537	550	544	544	49
15°	459	469	484	487	488	128
25°	328	339	334	347	350	149
35°	153	155	125	151	154	98
45°	62	56	31	50	59	51
55°	33	25	6	22	30	30
65°	15	10	3	9	14	16
75°	5	3	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°	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5	552.5
2.5°	539.3	545.3	544.9	550.0	551.3	550.0	546.6	550.0	549.6
5°	525.2	532.1	536.8	545.3	549.6	548.7	544.0	544.9	544.4
7.5°	504.8	513.3	521.4	534.2	542.3	541.9	535.0	533.8	532.1
10°	484.3	492.4	501.8	515.0	525.7	527.4	520.5	518.8	518.0
12.5°	472.3	478.7	485.1	496.6	506.0	509.4	505.6	506.0	505.6
15°	458.7	465.1	469.3	477.9	484.3	489.0	487.3	489.8	487.7
17.5°	438.2	445.9	447.6	454.0	458.7	461.7	463.4	465.9	462.5
20°	410.5	416.4	418.6	421.1	423.3	427.1	432.2	434.8	430.9
22.5°	371.6	383.2	382.7	381.4	383.6	384.9	393.0	397.2	394.2
25°	328.1	340.1	338.8	333.7	334.1	336.6	346.9	352.4	350.3
27.5°	282.5	293.5	290.6	280.7	278.2	282.0	295.3	301.7	300.4
30°	238.5	245.8	241.1	223.6	220.6	225.3	242.3	248.7	245.3
32.5°	191.1	196.7	194.6	173.2	168.1	172.8	192.9	198.8	195.0
35°	152.7	157.9	154.9	129.7	125.0	130.1	151.0	157.9	154.5
37.5°	122.5	126.3	122.5	95.6	91.3	96.4	116.5	125.4	121.2
40°	97.3	100.3	95.1	70.4	67.0	69.5	88.3	97.3	94.3
42.5°	76.8	78.9	73.4	51.6	47.8	51.2	66.6	74.7	73.0
45°	62.3	62.3	55.5	35.8	31.1	34.6	49.9	58.5	58.9
47.5°	53.3	52.1	43.5	23.9	17.9	22.6	39.7	48.6	49.9
50°	46.1	44.4	35.8	17.5	11.5	16.2	32.9	41.8	43.1
52.5°	39.7	38.4	29.9	13.7	8.1	12.4	27.7	36.3	37.5
55°	33.3	32.4	24.7	10.7	6.4	9.4	22.2	29.4	30.3
57.5°	27.3	26.0	20.1	9.0	5.1	7.7	18.3	24.3	25.2
60°	23.0	21.8	16.2	7.3	4.3	6.0	14.9	20.1	20.9
62.5°	19.2	17.9	13.2	6.0	3.4	5.1	11.9	16.2	17.1
65°	15.4	14.5	10.2	4.7	3.0	3.8	9.4	12.8	13.7
67.5°	12.4	11.5	8.1	3.8	2.6	3.0	7.3	10.2	11.1
70°	9.4	8.5	6.0	3.0	2.1	2.6	5.5	7.7	8.5
72.5°	6.8	6.4	4.7	2.6	1.7	2.1	3.8	5.5	6.4
75°	5.1	4.7	3.4	1.7	1.3	1.7	3.0	4.3	4.7
77.5°	3.4	3.4	2.6	1.3	1.3	1.3	2.1	3.0	3.0
80°	2.6	2.1	1.7	0.9	0.9	0.9	1.3	2.1	2.1
82.5°	1.7	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)