

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: P856686

Luminaire Tested: **LD4C10D010 EU4109027 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P856686
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 EU4109027 4LBMDSWGPH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

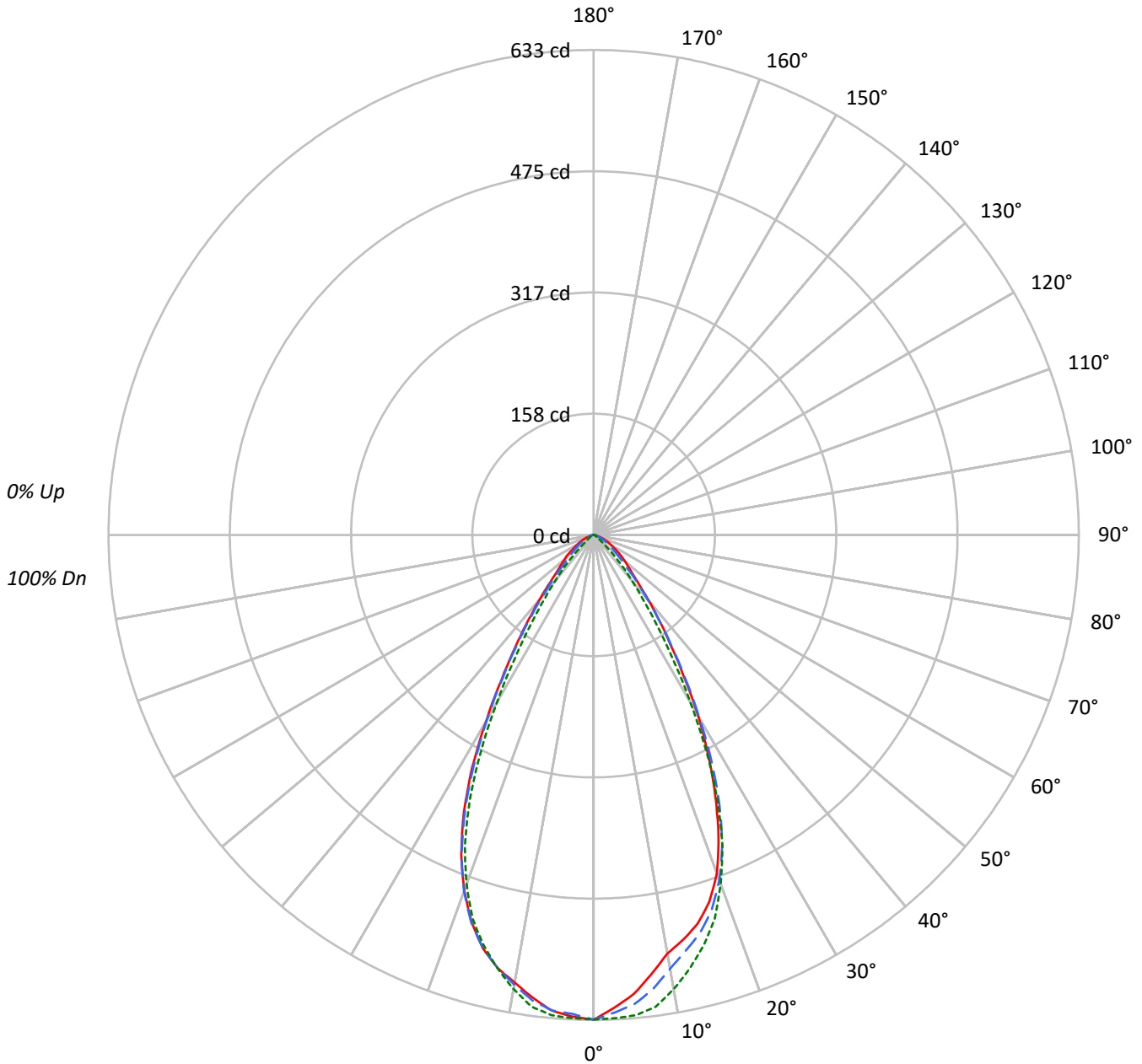
Lumens per Lamp: N/A
Luminaire Lumens: 576.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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
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°	77729	77729	77729
5°	74179	77607	76879
10°	69186	75086	74001
15°	66799	70538	71034
20°	61447	63369	64519
25°	50928	51863	54371
30°	38742	35834	39848
35°	26231	21477	26531
40°	17866	12301	17320
45°	12388	6203	11710
50°	10091	2523	9423
55°	8161	1564	7432
60°	6487	1204	5872
65°	5116	988	4535
70°	3843	862	3520
75°	2801	712	2563
80°	2052	707	1698
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	10.1
10°-20°	152.8	26.5
20°-30°	175.4	30.4
30°-40°	106.5	18.5
40°-50°	45.6	7.9
50°-60°	21.9	3.8
60°-70°	10.6	1.8
70°-80°	4.0	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°	386.4	67.1
0°-40°	492.9	85.6
0°-60°	560.5	97.3
0°-90°	576.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	576.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	633	633	633	633	633	
5°	602	615	629	623	623	56
15°	525	538	555	558	558	146
25°	376	388	383	397	401	170
35°	175	177	143	173	177	112
45°	71	64	36	57	67	58
55°	38	28	7	25	35	34
65°	18	12	3	11	16	18
75°	6	4	2	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°	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7	632.7
2.5°	617.6	624.4	623.9	629.8	631.3	629.8	625.9	629.8	629.3
5°	601.5	609.3	614.6	624.4	629.3	628.3	623.0	623.9	623.4
7.5°	578.0	587.8	597.1	611.7	621.0	620.5	612.7	611.2	609.3
10°	554.6	563.8	574.6	589.7	601.9	603.9	596.1	594.1	593.2
12.5°	540.9	548.2	555.5	568.7	579.5	583.4	579.0	579.5	579.0
15°	525.2	532.6	537.5	547.2	554.6	559.9	558.0	560.9	558.5
17.5°	501.8	510.6	512.5	519.9	525.2	528.7	530.6	533.5	529.6
20°	470.0	476.9	479.3	482.2	484.7	489.1	494.9	497.9	493.5
22.5°	425.6	438.8	438.3	436.8	439.2	440.7	450.0	454.9	451.5
25°	375.7	389.4	387.9	382.1	382.6	385.5	397.2	403.6	401.1
27.5°	323.4	336.2	332.7	321.5	318.6	323.0	338.1	345.4	344.0
30°	273.1	281.4	276.1	256.0	252.6	258.0	277.5	284.8	280.9
32.5°	218.9	225.2	222.8	198.4	192.5	197.9	220.8	227.7	223.3
35°	174.9	180.8	177.4	148.5	143.2	149.0	173.0	180.8	176.9
37.5°	140.2	144.6	140.2	109.4	104.6	110.4	133.4	143.6	138.8
40°	111.4	114.8	109.0	80.6	76.7	79.6	101.1	111.4	108.0
42.5°	87.9	90.4	84.0	59.1	54.7	58.6	76.2	85.5	83.5
45°	71.3	71.3	63.5	41.0	35.7	39.6	57.2	66.9	67.4
47.5°	61.1	59.6	49.8	27.4	20.5	25.9	45.4	55.7	57.2
50°	52.8	50.8	41.0	20.0	13.2	18.6	37.6	47.9	49.3
52.5°	45.4	44.0	34.2	15.6	9.3	14.2	31.8	41.5	43.0
55°	38.1	37.1	28.3	12.2	7.3	10.7	25.4	33.7	34.7
57.5°	31.3	29.8	23.0	10.3	5.9	8.8	21.0	27.8	28.8
60°	26.4	24.9	18.6	8.3	4.9	6.8	17.1	23.0	23.9
62.5°	22.0	20.5	15.1	6.8	3.9	5.9	13.7	18.6	19.5
65°	17.6	16.6	11.7	5.4	3.4	4.4	10.7	14.7	15.6
67.5°	14.2	13.2	9.3	4.4	2.9	3.4	8.3	11.7	12.7
70°	10.7	9.8	6.8	3.4	2.4	2.9	6.4	8.8	9.8
72.5°	7.8	7.3	5.4	2.9	2.0	2.4	4.4	6.4	7.3
75°	5.9	5.4	3.9	2.0	1.5	2.0	3.4	4.9	5.4
77.5°	3.9	3.9	2.9	1.5	1.5	1.5	2.4	3.4	3.4
80°	2.9	2.4	2.0	1.0	1.0	1.0	1.5	2.4	2.4
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)