

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: P856756

Luminaire Tested: **LD4C10D010 EU4109040 4LBMDSWGPH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P856756
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 EU4109040 4LBMDSWGPH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

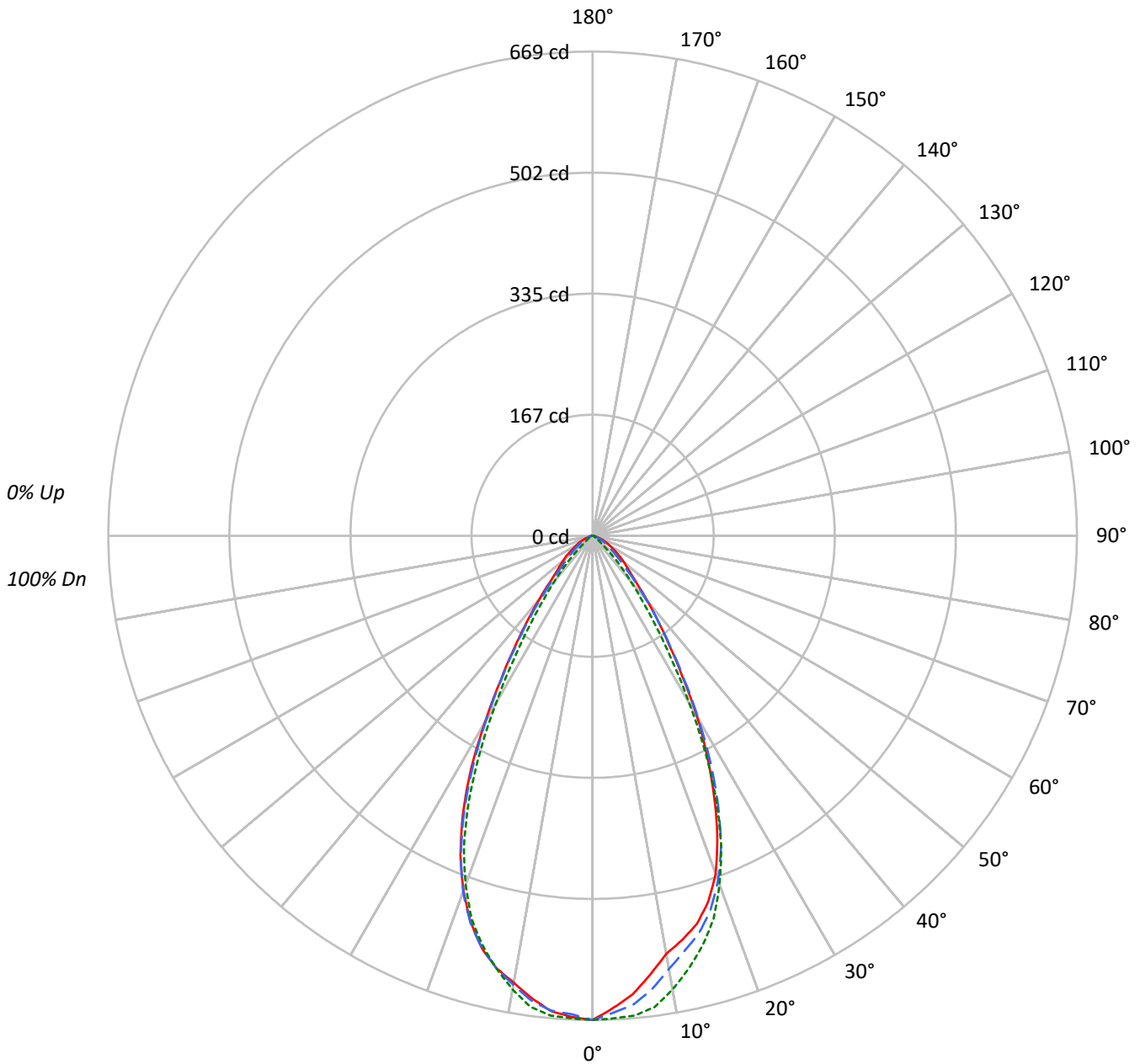
Lumens per Lamp: N/A
Luminaire Lumens: 609.0 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	82189	82189	82189
5°	78421	82059	81294
10°	73140	79390	78230
15°	70627	74570	75104
20°	64977	67003	68219
25°	53856	54832	57488
30°	40969	37891	42132
35°	27731	22706	28046
40°	18892	13006	18315
45°	13100	6550	12388
50°	10665	2657	9977
55°	8632	1649	7861
60°	6855	1278	6216
65°	5407	1047	4796
70°	4095	934	3700
75°	2943	712	2706
80°	2193	707	1839
85°	1410	705	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	10.1
10°-20°	161.6	26.5
20°-30°	185.4	30.4
30°-40°	112.6	18.5
40°-50°	48.3	7.9
50°-60°	23.2	3.8
60°-70°	11.3	1.8
70°-80°	4.2	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°	408.5	67.1
0°-40°	521.2	85.6
0°-60°	592.6	97.3
0°-90°	609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	609.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	669	669	669	669	669	
5°	636	650	665	659	659	59
15°	555	568	586	590	590	155
25°	397	410	404	420	424	180
35°	185	188	151	183	187	119
45°	75	67	38	60	71	61
55°	40	30	8	27	37	36
65°	19	12	4	11	16	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°	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0	669.0
2.5°	653.0	660.2	659.7	665.9	667.4	665.9	661.7	665.9	665.4
5°	635.9	644.2	649.9	660.2	665.4	664.3	658.6	659.7	659.2
7.5°	611.1	621.5	631.3	646.8	656.6	656.1	647.8	646.2	644.2
10°	586.3	596.1	607.5	623.5	636.4	638.5	630.2	628.2	627.1
12.5°	571.9	579.6	587.4	601.3	612.7	616.8	612.2	612.7	612.2
15°	555.3	563.1	568.2	578.6	586.3	592.0	589.9	593.0	590.5
17.5°	530.5	539.8	541.9	549.6	555.3	558.9	561.0	564.1	560.0
20°	497.0	504.2	506.8	509.9	512.5	517.1	523.3	526.4	521.8
22.5°	449.9	463.9	463.4	461.8	464.4	466.0	475.8	480.9	477.3
25°	397.3	411.7	410.2	404.0	404.5	407.6	420.0	426.7	424.1
27.5°	342.0	355.4	351.8	339.9	336.8	341.5	357.5	365.2	363.7
30°	288.8	297.6	291.9	270.7	267.1	272.8	293.4	301.2	297.0
32.5°	231.4	238.1	235.6	209.7	203.5	209.2	233.5	240.7	236.1
35°	184.9	191.1	187.5	157.0	151.4	157.6	182.9	191.1	187.0
37.5°	148.3	152.9	148.3	115.7	110.5	116.7	141.0	151.9	146.7
40°	117.8	121.4	115.2	85.2	81.1	84.2	106.9	117.8	114.2
42.5°	93.0	95.6	88.9	62.5	57.9	62.0	80.6	90.4	88.3
45°	75.4	75.4	67.2	43.4	37.7	41.8	60.4	70.8	71.3
47.5°	64.6	63.0	52.7	28.9	21.7	27.4	48.0	58.9	60.4
50°	55.8	53.7	43.4	21.2	13.9	19.6	39.8	50.6	52.2
52.5°	48.0	46.5	36.2	16.5	9.8	15.0	33.6	43.9	45.5
55°	40.3	39.3	30.0	12.9	7.7	11.4	26.9	35.6	36.7
57.5°	33.1	31.5	24.3	10.8	6.2	9.3	22.2	29.4	30.5
60°	27.9	26.3	19.6	8.8	5.2	7.2	18.1	24.3	25.3
62.5°	23.2	21.7	16.0	7.2	4.1	6.2	14.5	19.6	20.7
65°	18.6	17.6	12.4	5.7	3.6	4.6	11.4	15.5	16.5
67.5°	15.0	13.9	9.8	4.6	3.1	3.6	8.8	12.4	13.4
70°	11.4	10.3	7.2	3.6	2.6	3.1	6.7	9.3	10.3
72.5°	8.3	7.7	5.7	3.1	2.1	2.6	4.6	6.7	7.7
75°	6.2	5.7	4.1	2.1	1.5	2.1	3.6	5.2	5.7
77.5°	4.1	4.1	3.1	1.5	1.5	1.5	2.6	3.6	3.6
80°	3.1	2.6	2.1	1.0	1.0	1.0	1.5	2.6	2.6
82.5°	2.1	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)