

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: P859429

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDSWGPH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859429
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: LD4C70D010 EU4709027 4LBMDSWGPH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH GPH FINISH
Light Source: -
Ballast/Driver: -

Summary

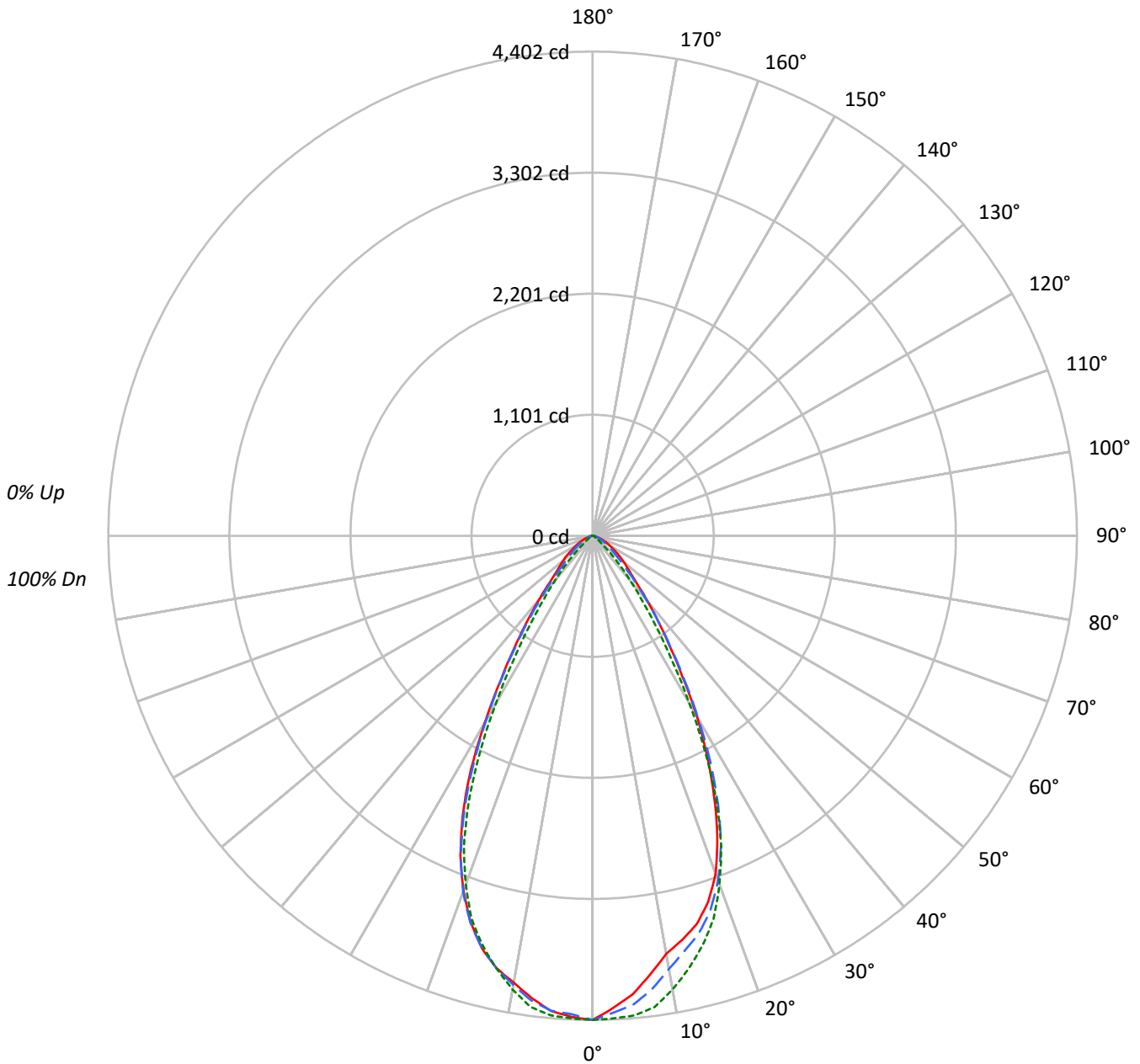
Lumens per Lamp: N/A
Luminaire Lumens: 4007.0 lumens
Efficiency: N/A
Efficacy: 51.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
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									
RC	80									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																			
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°	540752	540752	540752
5°	515995	539882	534863
10°	481255	522385	514751
15°	464730	490663	494123
20°	427487	440822	448810
25°	354311	360763	378263
30°	269532	249289	277249
35°	182491	149361	184531
40°	124290	85575	120473
45°	86210	43105	81502
50°	70162	17545	65614
55°	56781	10924	51684
60°	45087	8354	40910
65°	35581	6919	31628
70°	26868	6106	24426
75°	19367	4842	17753
80°	14433	4811	12027
85°	9585	4793	9585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	10.1
10°-20°	1063.3	26.5
20°-30°	1220.0	30.4
30°-40°	741.1	18.5
40°-50°	317.6	7.9
50°-60°	152.4	3.8
60°-70°	74.1	1.8
70°-80°	27.5	0.7
80°-90°	6.3	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°	2688.0	67.1
0°-40°	3429.1	85.6
0°-60°	3899.1	97.3
0°-90°	4007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4402	4402	4402	4402	4402	
5°	4184	4276	4378	4334	4337	389
15°	3654	3739	3858	3882	3885	1017
25°	2614	2699	2661	2763	2790	1186
35°	1217	1234	996	1203	1230	780
45°	496	442	248	398	469	403
55°	265	197	51	177	241	239
65°	122	82	24	75	109	124
75°	41	27	10	24	37	45
85°	7	7	3	3	7	9
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°	4401.6	4401.6	4401.6	4401.6	4401.6	4401.6	4401.6	4401.6	4401.6
2.5°	4296.3	4343.8	4340.5	4381.2	4391.4	4381.2	4354.0	4381.2	4377.8
5°	4184.1	4238.5	4275.9	4343.8	4377.8	4371.0	4333.7	4340.5	4337.1
7.5°	4020.9	4088.9	4153.5	4255.5	4320.1	4316.7	4262.3	4252.1	4238.5
10°	3857.8	3922.4	3997.2	4102.5	4187.5	4201.1	4146.7	4133.1	4126.3
12.5°	3762.6	3813.6	3864.6	3956.4	4031.1	4058.3	4027.7	4031.1	4027.7
15°	3653.9	3704.8	3738.8	3806.8	3857.8	3895.2	3881.6	3902.0	3885.0
17.5°	3490.7	3551.9	3565.5	3616.5	3653.9	3677.7	3691.3	3711.6	3684.5
20°	3269.8	3317.4	3334.4	3354.8	3371.8	3402.3	3443.1	3463.5	3432.9
22.5°	2960.5	3052.3	3048.9	3038.7	3055.6	3065.8	3130.4	3164.4	3140.6
25°	2613.8	2709.0	2698.8	2658.0	2661.4	2681.8	2763.3	2807.5	2790.5
27.5°	2250.1	2338.5	2314.7	2236.5	2216.1	2246.7	2352.1	2403.1	2392.9
30°	1900.0	1957.8	1920.4	1781.0	1757.3	1794.6	1930.6	1981.6	1954.4
32.5°	1522.7	1566.9	1549.9	1380.0	1339.2	1376.6	1536.3	1583.9	1553.3
35°	1216.8	1257.6	1233.8	1033.3	995.9	1036.7	1203.2	1257.6	1230.4
37.5°	975.5	1006.1	975.5	761.4	727.4	768.2	927.9	999.3	965.3
40°	775.0	798.8	758.0	560.8	533.6	554.0	703.6	775.0	751.2
42.5°	611.8	628.8	584.6	411.3	380.7	407.9	530.2	594.8	581.2
45°	496.2	496.2	441.9	285.5	248.1	275.3	397.7	465.7	469.1
47.5°	424.9	414.7	346.7	190.3	142.8	180.1	316.1	387.5	397.7
50°	367.1	353.5	285.5	139.4	91.8	129.2	261.7	333.1	343.3
52.5°	316.1	305.9	237.9	108.8	64.6	98.6	220.9	288.9	299.1
55°	265.1	258.3	197.1	85.0	51.0	74.8	176.7	234.5	241.3
57.5°	217.5	207.3	159.8	71.4	40.8	61.2	146.2	193.7	200.5
60°	183.5	173.3	129.2	57.8	34.0	47.6	119.0	159.8	166.5
62.5°	153.0	142.8	105.4	47.6	27.2	40.8	95.2	129.2	136.0
65°	122.4	115.6	81.6	37.4	23.8	30.6	74.8	102.0	108.8
67.5°	98.6	91.8	64.6	30.6	20.4	23.8	57.8	81.6	88.4
70°	74.8	68.0	47.6	23.8	17.0	20.4	44.2	61.2	68.0
72.5°	54.4	51.0	37.4	20.4	13.6	17.0	30.6	44.2	51.0
75°	40.8	37.4	27.2	13.6	10.2	13.6	23.8	34.0	37.4
77.5°	27.2	27.2	20.4	10.2	10.2	10.2	17.0	23.8	23.8
80°	20.4	17.0	13.6	6.8	6.8	6.8	10.2	17.0	17.0
82.5°	13.6	10.2	10.2	6.8	6.8	6.8	6.8	10.2	10.2
85°	6.8	6.8	6.8	3.4	3.4	3.4	3.4	6.8	6.8
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)