

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: P859432

Luminaire Tested: **LD4C70D010 EU4709027 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859432
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 4LBMDSWMW
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

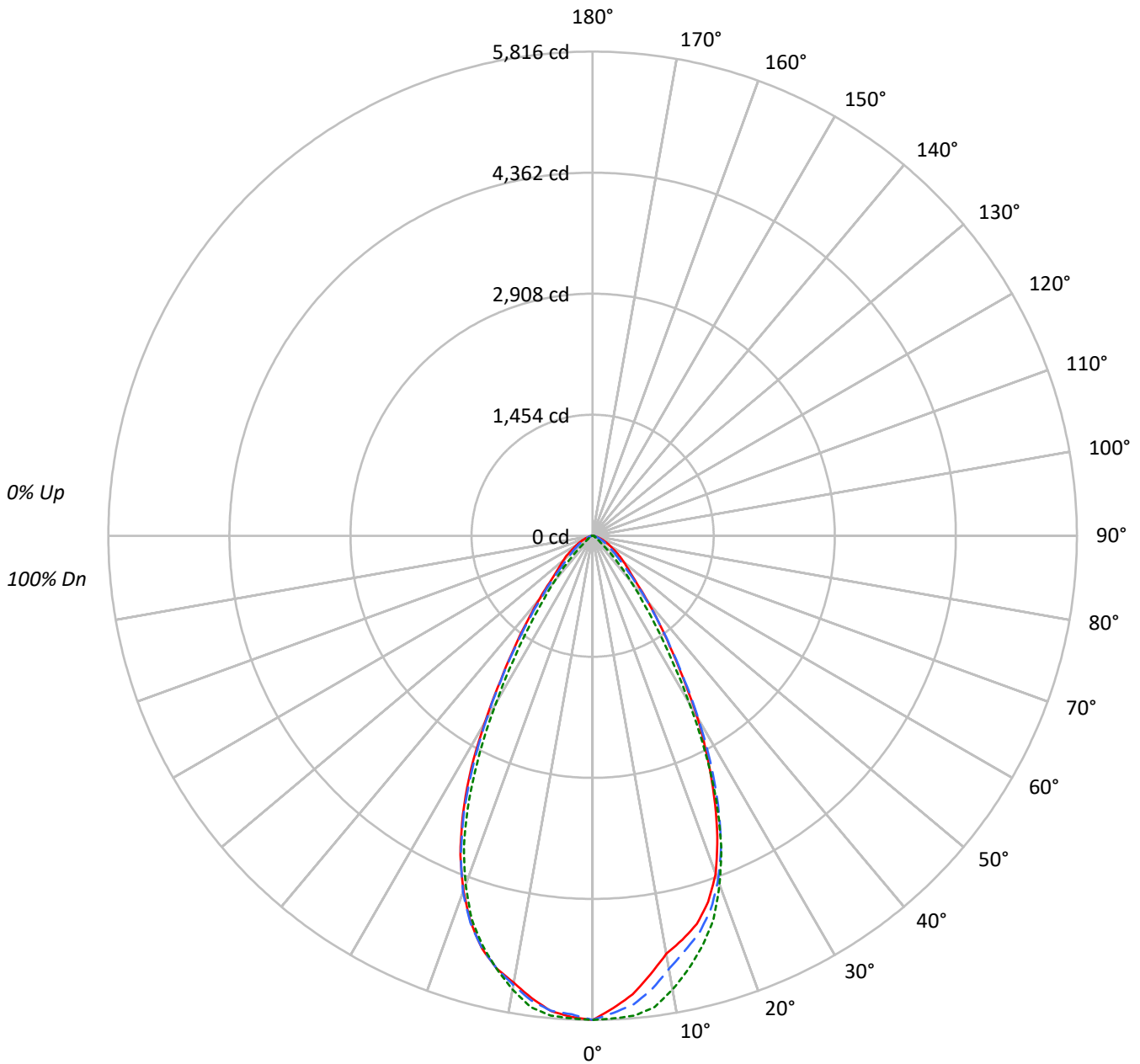
Lumens per Lamp: N/A
Luminaire Lumens: 5295.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					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°	714577	714577	714577
5°	681852	713422	706775
10°	635944	690297	680217
15°	614111	648375	652954
20°	564892	582516	593080
25°	468203	476716	499855
30°	356165	329411	366365
35°	241162	197369	243847
40°	164239	113096	159187
45°	113939	56970	107685
50°	92715	23184	86695
55°	75030	14436	68305
60°	59584	11032	54080
65°	47006	9128	41773
70°	35489	8082	32256
75°	25585	6408	23449
80°	19031	6367	15918
85°	12686	6343	12686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.8	10.1
10°-20°	1405.1	26.5
20°-30°	1612.1	30.4
30°-40°	979.3	18.5
40°-50°	419.7	7.9
50°-60°	201.4	3.8
60°-70°	97.9	1.8
70°-80°	36.3	0.7
80°-90°	8.4	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°	3552.0	67.1
0°-40°	4531.3	85.6
0°-60°	5152.4	97.3
0°-90°	5295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5295.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5816	5816	5816	5816	5816	
5°	5529	5650	5785	5727	5731	514
15°	4828	4941	5098	5129	5134	1344
25°	3454	3566	3517	3652	3688	1567
35°	1608	1630	1316	1590	1626	1031
45°	656	584	328	526	620	533
55°	350	260	67	234	319	316
65°	162	108	31	99	144	164
75°	54	36	14	31	49	59
85°	9	9	4	4	9	12
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°	5816.5	5816.5	5816.5	5816.5	5816.5	5816.5	5816.5	5816.5	5816.5
2.5°	5677.2	5740.1	5735.6	5789.5	5803.0	5789.5	5753.6	5789.5	5785.0
5°	5529.0	5600.9	5650.3	5740.1	5785.0	5776.1	5726.7	5735.6	5731.1
7.5°	5313.4	5403.3	5488.6	5623.3	5708.7	5704.2	5632.3	5618.9	5600.9
10°	5097.8	5183.2	5282.0	5421.2	5533.5	5551.5	5479.6	5461.7	5452.7
12.5°	4972.1	5039.5	5106.8	5228.1	5326.9	5362.8	5322.4	5326.9	5322.4
15°	4828.4	4895.7	4940.6	5030.5	5097.8	5147.2	5129.3	5156.2	5133.8
17.5°	4612.8	4693.6	4711.6	4778.9	4828.4	4859.8	4877.8	4904.7	4868.8
20°	4320.8	4383.7	4406.2	4433.1	4455.6	4496.0	4549.9	4576.8	4536.4
22.5°	3912.1	4033.4	4028.9	4015.4	4037.9	4051.3	4136.7	4181.6	4150.1
25°	3454.0	3579.7	3566.2	3512.3	3516.8	3543.8	3651.6	3710.0	3687.5
27.5°	2973.4	3090.1	3058.7	2955.4	2928.5	2968.9	3108.1	3175.5	3162.0
30°	2510.7	2587.1	2537.7	2353.5	2322.1	2371.5	2551.2	2618.5	2582.6
32.5°	2012.2	2070.6	2048.1	1823.5	1769.6	1819.1	2030.2	2093.0	2052.6
35°	1608.0	1661.9	1630.4	1365.4	1316.0	1369.9	1590.0	1661.9	1625.9
37.5°	1289.1	1329.5	1289.1	1006.1	961.2	1015.1	1226.2	1320.5	1275.6
40°	1024.1	1055.5	1001.6	741.1	705.2	732.1	929.7	1024.1	992.6
42.5°	808.5	830.9	772.5	543.5	503.0	539.0	700.7	786.0	768.0
45°	655.8	655.8	583.9	377.3	327.9	363.8	525.5	615.3	619.8
47.5°	561.4	548.0	458.1	251.5	188.6	238.0	417.7	512.0	525.5
50°	485.1	467.1	377.3	184.2	121.3	170.7	345.8	440.2	453.6
52.5°	417.7	404.2	314.4	143.7	85.3	130.3	291.9	381.8	395.3
55°	350.3	341.4	260.5	112.3	67.4	98.8	233.6	309.9	318.9
57.5°	287.5	274.0	211.1	94.3	53.9	80.8	193.1	256.0	265.0
60°	242.5	229.1	170.7	76.4	44.9	62.9	157.2	211.1	220.1
62.5°	202.1	188.6	139.2	62.9	35.9	53.9	125.8	170.7	179.7
65°	161.7	152.7	107.8	49.4	31.4	40.4	98.8	134.7	143.7
67.5°	130.3	121.3	85.3	40.4	26.9	31.4	76.4	107.8	116.8
70°	98.8	89.8	62.9	31.4	22.5	26.9	58.4	80.8	89.8
72.5°	71.9	67.4	49.4	26.9	18.0	22.5	40.4	58.4	67.4
75°	53.9	49.4	35.9	18.0	13.5	18.0	31.4	44.9	49.4
77.5°	35.9	35.9	26.9	13.5	13.5	13.5	22.5	31.4	31.4
80°	26.9	22.5	18.0	9.0	9.0	9.0	13.5	22.5	22.5
82.5°	18.0	13.5	13.5	9.0	9.0	9.0	9.0	13.5	13.5
85°	9.0	9.0	9.0	4.5	4.5	4.5	4.5	9.0	9.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
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)