

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: P859233

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859233
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: LD4C60D010 EU4609040 4LBMDSWMW
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

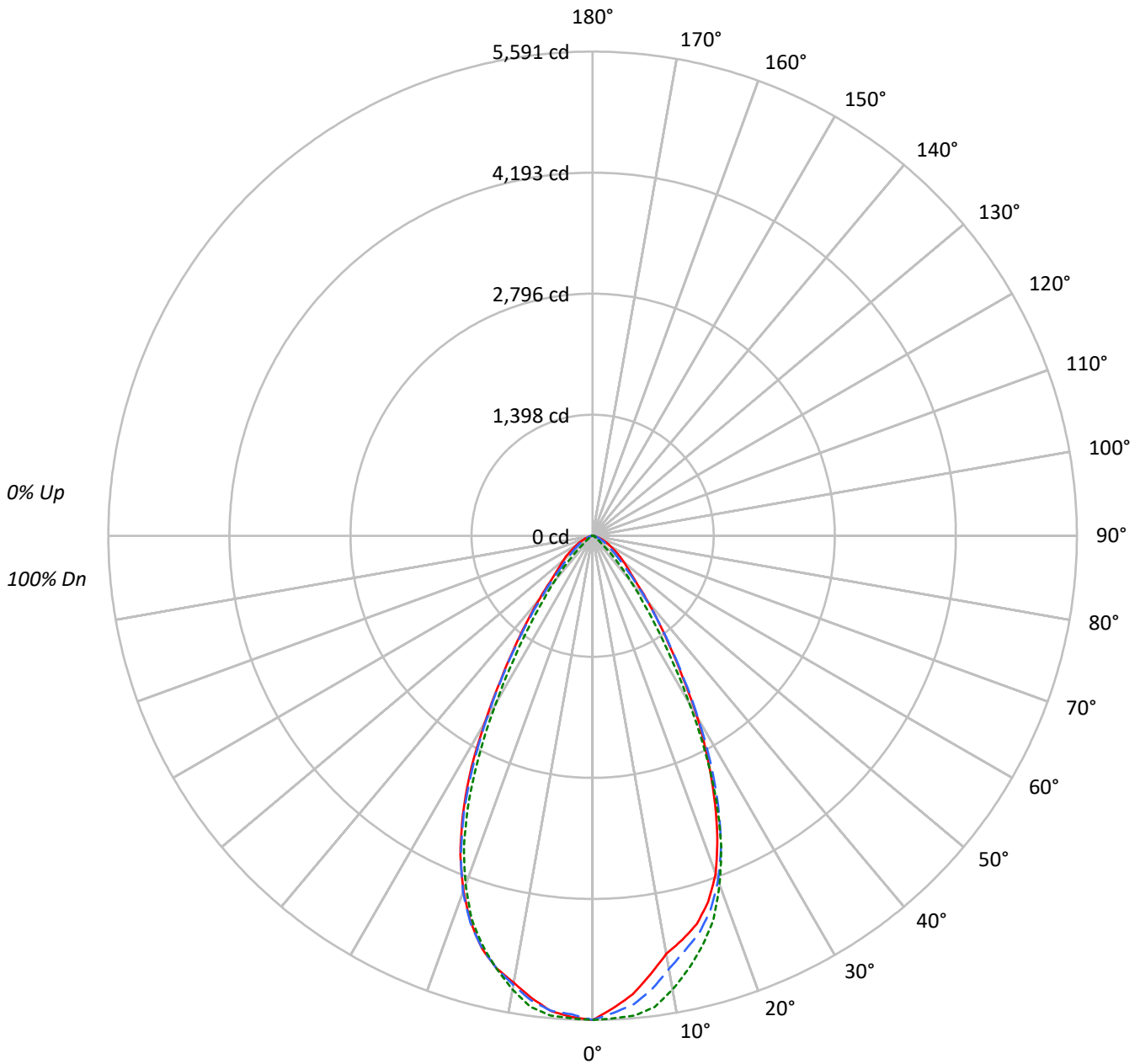
Lumens per Lamp: N/A
Luminaire Lumens: 5090.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	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°	686911	686911	686911
5°	655460	685810	679422
10°	611331	663576	653883
15°	590327	623281	627669
20°	543020	559964	570122
25°	450066	458267	480498
30°	342377	316658	352179
35°	231819	189735	234413
40°	157872	108717	153029
45°	109526	54763	103515
50°	89122	22285	83350
55°	72139	13879	65649
60°	57299	10615	51992
65°	45174	8779	40174
70°	34124	7759	31035
75°	24588	6171	22547
80°	18324	6084	15282
85°	12122	6061	12122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.1	10.1
10°-20°	1350.7	26.5
20°-30°	1549.7	30.4
30°-40°	941.4	18.5
40°-50°	403.5	7.9
50°-60°	193.6	3.8
60°-70°	94.1	1.8
70°-80°	34.9	0.7
80°-90°	8.0	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°	3414.5	67.1
0°-40°	4355.9	85.6
0°-60°	4952.9	97.3
0°-90°	5090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5090.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5591	5591	5591	5591	5591	
5°	5315	5432	5561	5505	5509	494
15°	4641	4749	4900	4931	4935	1292
25°	3320	3428	3381	3510	3545	1506
35°	1546	1567	1265	1528	1563	991
45°	630	561	315	505	596	512
55°	337	250	65	224	306	304
65°	155	104	30	95	138	158
75°	52	34	13	30	48	57
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°	5591.3	5591.3	5591.3	5591.3	5591.3	5591.3	5591.3	5591.3	5591.3
2.5°	5457.4	5517.9	5513.6	5565.4	5578.3	5565.4	5530.8	5565.4	5561.1
5°	5315.0	5384.0	5431.5	5517.9	5561.1	5552.4	5504.9	5513.6	5509.3
7.5°	5107.7	5194.1	5276.1	5405.6	5487.7	5483.4	5414.3	5401.3	5384.0
10°	4900.5	4982.5	5077.5	5211.3	5319.3	5336.6	5267.5	5250.2	5241.6
12.5°	4779.6	4844.3	4909.1	5025.7	5120.7	5155.2	5116.4	5120.7	5116.4
15°	4641.4	4706.2	4749.4	4835.7	4900.5	4948.0	4930.7	4956.6	4935.0
17.5°	4434.2	4511.9	4529.2	4593.9	4641.4	4671.6	4688.9	4714.8	4680.3
20°	4153.5	4214.0	4235.6	4261.5	4283.1	4321.9	4373.7	4399.6	4360.8
22.5°	3760.6	3877.2	3872.9	3859.9	3881.5	3894.5	3976.5	4019.7	3989.5
25°	3320.2	3441.1	3428.2	3376.4	3380.7	3406.6	3510.2	3566.3	3544.7
27.5°	2858.3	2970.5	2940.3	2841.0	2815.1	2853.9	2987.8	3052.5	3039.6
30°	2413.5	2486.9	2439.4	2262.4	2232.2	2279.7	2452.4	2517.2	2482.6
32.5°	1934.3	1990.4	1968.8	1752.9	1701.1	1748.6	1951.6	2012.0	1973.1
35°	1545.7	1597.5	1567.3	1312.6	1265.1	1316.9	1528.4	1597.5	1563.0
37.5°	1239.2	1278.0	1239.2	967.1	924.0	975.8	1178.7	1269.4	1226.2
40°	984.4	1014.6	962.8	712.4	677.9	703.8	893.7	984.4	954.2
42.5°	777.2	798.8	742.6	522.4	483.6	518.1	673.5	755.6	738.3
45°	630.4	630.4	561.3	362.7	315.2	349.7	505.2	591.5	595.8
47.5°	539.7	526.7	440.4	241.8	181.3	228.8	401.5	492.2	505.2
50°	466.3	449.0	362.7	177.0	116.6	164.1	332.5	423.1	436.1
52.5°	401.5	388.6	302.2	138.2	82.0	125.2	280.6	367.0	379.9
55°	336.8	328.1	250.4	107.9	64.8	95.0	224.5	297.9	306.5
57.5°	276.3	263.4	202.9	90.7	51.8	77.7	185.7	246.1	254.7
60°	233.2	220.2	164.1	73.4	43.2	60.4	151.1	202.9	211.6
62.5°	194.3	181.3	133.8	60.4	34.5	51.8	120.9	164.1	172.7
65°	155.4	146.8	103.6	47.5	30.2	38.9	95.0	129.5	138.2
67.5°	125.2	116.6	82.0	38.9	25.9	30.2	73.4	103.6	112.3
70°	95.0	86.4	60.4	30.2	21.6	25.9	56.1	77.7	86.4
72.5°	69.1	64.8	47.5	25.9	17.3	21.6	38.9	56.1	64.8
75°	51.8	47.5	34.5	17.3	13.0	17.3	30.2	43.2	47.5
77.5°	34.5	34.5	25.9	13.0	13.0	13.0	21.6	30.2	30.2
80°	25.9	21.6	17.3	8.6	8.6	8.6	13.0	21.6	21.6
82.5°	17.3	13.0	13.0	8.6	8.6	8.6	8.6	13.0	13.0
85°	8.6	8.6	8.6	4.3	4.3	4.3	4.3	8.6	8.6
87.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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)