

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: P859252

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWH**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859252
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 EU4609050 4LBMDSWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

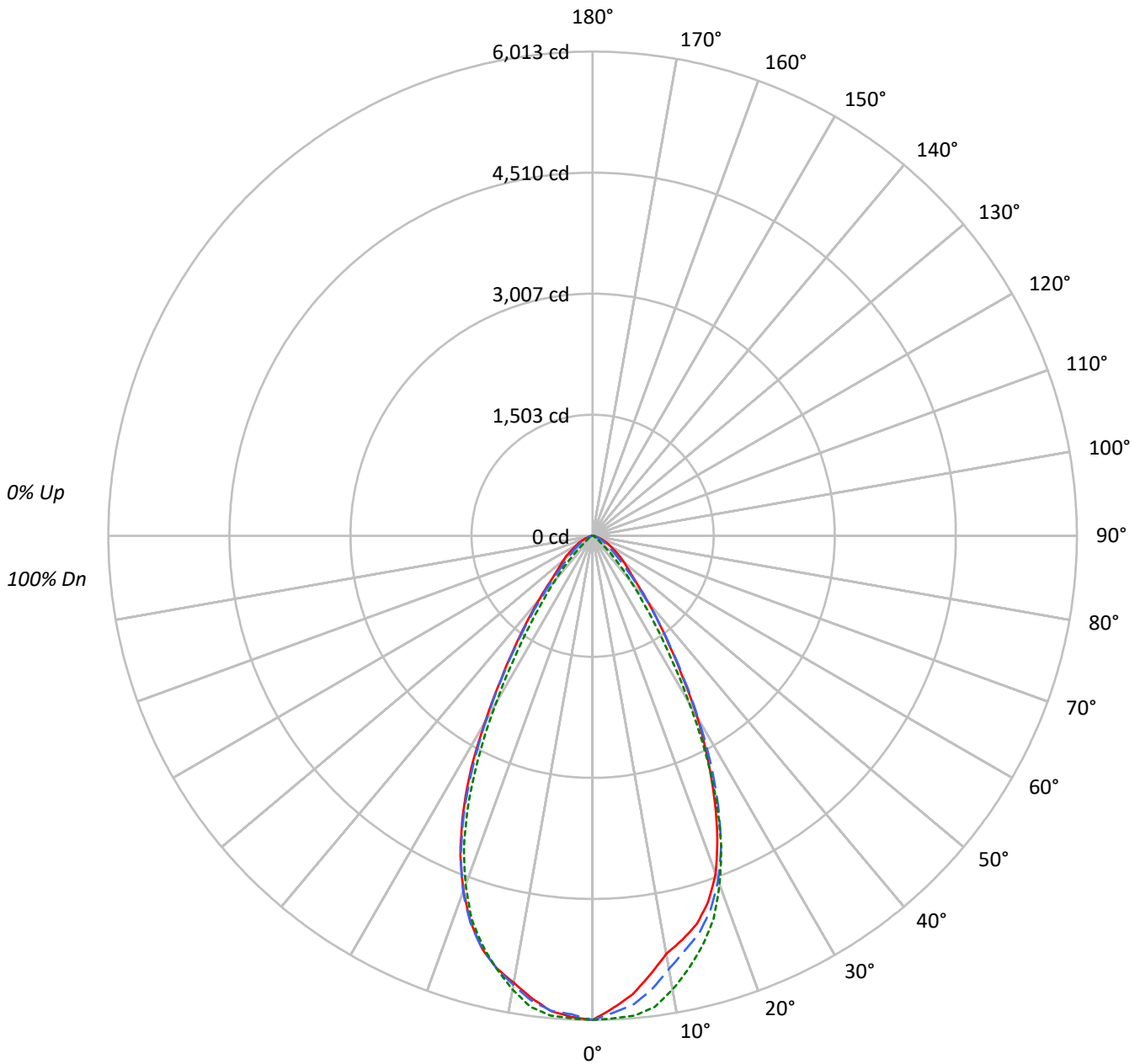
Lumens per Lamp: N/A
Luminaire Lumens: 5474.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	738730	738730	738730
5°	704901	737544	730675
10°	657451	713637	703208
15°	634868	670302	675021
20°	583993	602205	613135
25°	484022	492833	516758
30°	368209	340547	378749
35°	249306	204043	252095
40°	169788	116913	164576
45°	117779	58898	111333
50°	95850	23967	89638
55°	77579	14908	70618
60°	61599	11401	55898
65°	48604	9448	43197
70°	36710	8333	33370
75°	26439	6598	24256
80°	19739	6580	16414
85°	13109	6484	13109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.9	10.1
10°-20°	1452.6	26.5
20°-30°	1666.6	30.4
30°-40°	1012.4	18.5
40°-50°	433.9	7.9
50°-60°	208.2	3.8
60°-70°	101.2	1.8
70°-80°	37.6	0.7
80°-90°	8.6	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°	3672.1	67.1
0°-40°	4684.5	85.6
0°-60°	5326.6	97.3
0°-90°	5474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5474.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6013	6013	6013	6013	6013	
5°	5716	5841	5981	5920	5925	531
15°	4992	5108	5270	5303	5307	1390
25°	3571	3687	3636	3775	3812	1620
35°	1662	1686	1360	1644	1681	1065
45°	678	604	339	543	641	551
55°	362	269	70	242	330	327
65°	167	111	32	102	149	170
75°	56	37	14	32	51	61
85°	9	9	5	5	9	13
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°	6013.1	6013.1	6013.1	6013.1	6013.1	6013.1	6013.1	6013.1	6013.1
2.5°	5869.2	5934.2	5929.5	5985.2	5999.2	5985.2	5948.1	5985.2	5980.6
5°	5715.9	5790.2	5841.3	5934.2	5980.6	5971.3	5920.2	5929.5	5924.9
7.5°	5493.1	5585.9	5674.1	5813.4	5901.7	5897.0	5822.7	5808.8	5790.2
10°	5270.2	5358.4	5460.6	5604.5	5720.6	5739.2	5664.9	5646.3	5637.0
12.5°	5140.2	5209.8	5279.5	5404.8	5507.0	5544.1	5502.3	5507.0	5502.3
15°	4991.6	5061.2	5107.7	5200.5	5270.2	5321.3	5302.7	5330.5	5307.3
17.5°	4768.7	4852.3	4870.9	4940.5	4991.6	5024.1	5042.7	5070.5	5033.4
20°	4466.9	4531.9	4555.1	4583.0	4606.2	4648.0	4703.7	4731.6	4689.8
22.5°	4044.3	4169.7	4165.1	4151.1	4174.4	4188.3	4276.5	4322.9	4290.4
25°	3570.7	3700.7	3686.8	3631.1	3635.7	3663.6	3775.0	3835.4	3812.2
27.5°	3073.9	3194.6	3162.1	3055.3	3027.4	3069.2	3213.2	3282.8	3268.9
30°	2595.6	2674.6	2623.5	2433.1	2400.6	2451.7	2637.4	2707.1	2669.9
32.5°	2080.2	2140.6	2117.4	1885.2	1829.5	1880.5	2098.8	2163.8	2122.0
35°	1662.3	1718.0	1685.5	1411.6	1360.5	1416.2	1643.7	1718.0	1680.9
37.5°	1332.6	1374.4	1332.6	1040.1	993.7	1049.4	1267.6	1365.1	1318.7
40°	1058.7	1091.2	1035.5	766.1	729.0	756.9	961.2	1058.7	1026.2
42.5°	835.8	859.0	798.7	561.8	520.1	557.2	724.4	812.6	794.0
45°	677.9	677.9	603.6	390.0	339.0	376.1	543.3	636.1	640.8
47.5°	580.4	566.5	473.6	260.0	195.0	246.1	431.8	529.3	543.3
50°	501.5	482.9	390.0	190.4	125.4	176.4	357.5	455.0	469.0
52.5°	431.8	417.9	325.0	148.6	88.2	134.7	301.8	394.7	408.6
55°	362.2	352.9	269.3	116.1	69.6	102.2	241.5	320.4	329.7
57.5°	297.2	283.2	218.2	97.5	55.7	83.6	199.7	264.7	274.0
60°	250.7	236.8	176.4	78.9	46.4	65.0	162.5	218.2	227.5
62.5°	208.9	195.0	143.9	65.0	37.1	55.7	130.0	176.4	185.7
65°	167.2	157.9	111.4	51.1	32.5	41.8	102.2	139.3	148.6
67.5°	134.7	125.4	88.2	41.8	27.9	32.5	78.9	111.4	120.7
70°	102.2	92.9	65.0	32.5	23.2	27.9	60.4	83.6	92.9
72.5°	74.3	69.6	51.1	27.9	18.6	23.2	41.8	60.4	69.6
75°	55.7	51.1	37.1	18.6	13.9	18.6	32.5	46.4	51.1
77.5°	37.1	37.1	27.9	13.9	13.9	13.9	23.2	32.5	32.5
80°	27.9	23.2	18.6	9.3	9.3	9.3	13.9	23.2	23.2
82.5°	18.6	13.9	13.9	9.3	9.3	9.3	9.3	13.9	13.9
85°	9.3	9.3	9.3	4.6	4.6	4.6	4.6	9.3	9.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
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)