

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: P859235

Luminaire Tested: **LD4C60D010 EU4609040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859235
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 4LBMDSWWMH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

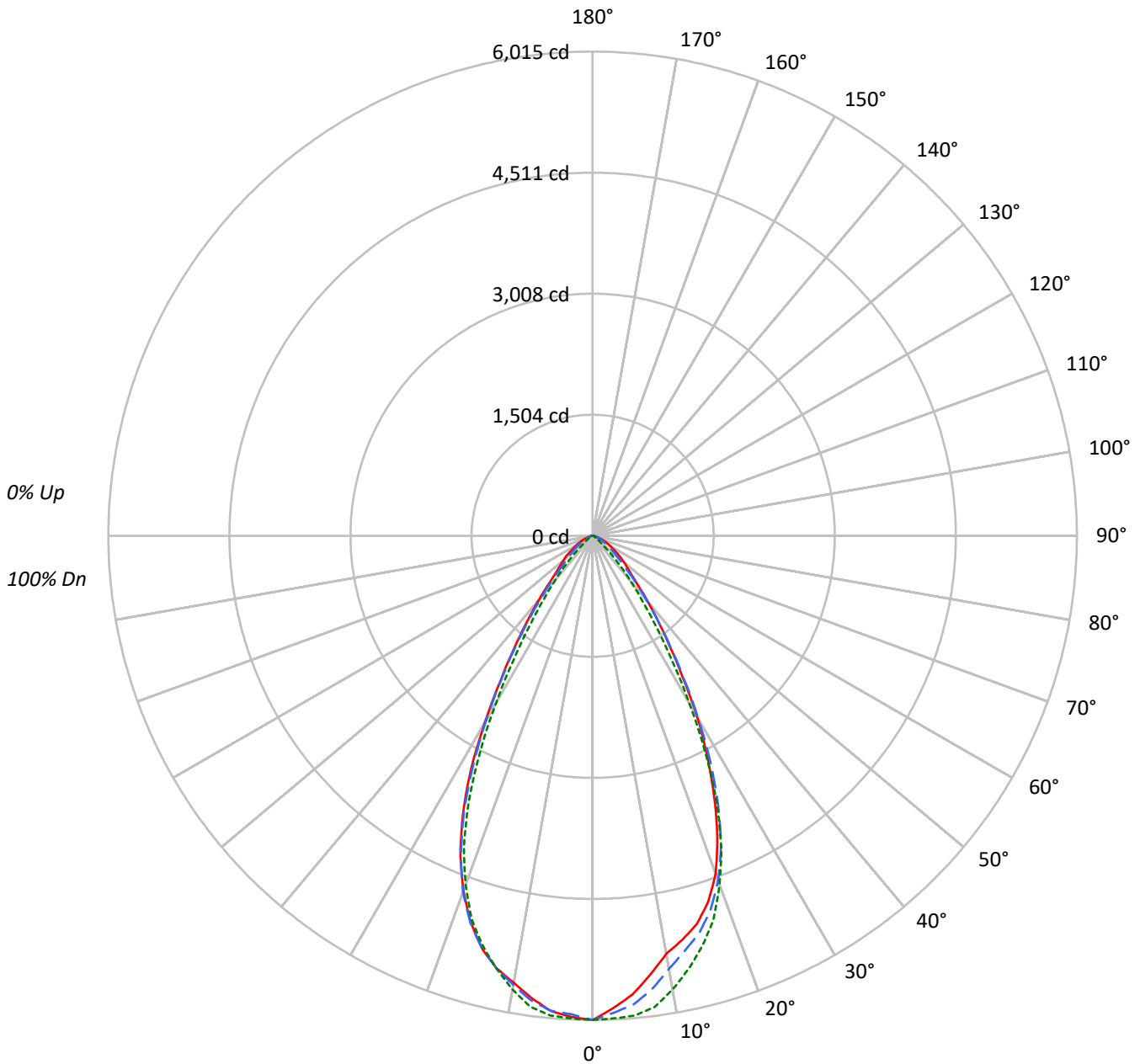
Lumens per Lamp: N/A
Luminaire Lumens: 5476.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	739001	739001	739001
5°	705160	737815	730946
10°	657688	713899	703470
15°	635097	670544	675275
20°	584202	602427	613357
25°	484198	493023	516948
30°	368351	340674	378891
35°	249396	204118	252185
40°	169852	116961	164640
45°	117831	58916	111368
50°	95888	23967	89657
55°	77600	14929	70639
60°	61623	11425	55923
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°	553.1	10.1
10°-20°	1453.1	26.5
20°-30°	1667.2	30.4
30°-40°	1012.8	18.5
40°-50°	434.1	7.9
50°-60°	208.2	3.8
60°-70°	101.3	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°	3673.4	67.1
0°-40°	4686.2	85.6
0°-60°	5328.5	97.3
0°-90°	5476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5476.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6015	6015	6015	6015	6015	
5°	5718	5843	5983	5922	5927	531
15°	4993	5110	5272	5305	5309	1390
25°	3572	3688	3637	3776	3814	1620
35°	1663	1686	1361	1644	1682	1066
45°	678	604	339	544	641	551
55°	362	269	70	242	330	327
65°	167	112	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°	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3	6015.3
2.5°	5871.3	5936.3	5931.7	5987.4	6001.4	5987.4	5950.3	5987.4	5982.8
5°	5718.0	5792.3	5843.4	5936.3	5982.8	5973.5	5922.4	5931.7	5927.1
7.5°	5495.1	5588.0	5676.2	5815.6	5903.8	5899.2	5824.9	5810.9	5792.3
10°	5272.1	5360.4	5462.5	5606.5	5722.7	5741.2	5666.9	5648.3	5639.1
12.5°	5142.0	5211.7	5281.4	5406.8	5509.0	5546.2	5504.4	5509.0	5504.4
15°	4993.4	5063.1	5109.5	5202.4	5272.1	5323.2	5304.6	5332.5	5309.3
17.5°	4770.4	4854.1	4872.6	4942.3	4993.4	5025.9	5044.5	5072.4	5035.2
20°	4468.5	4533.5	4556.8	4584.6	4607.9	4649.7	4705.4	4733.3	4691.5
22.5°	4045.8	4171.2	4166.6	4152.7	4175.9	4189.8	4278.1	4324.5	4292.0
25°	3572.0	3702.1	3688.1	3632.4	3637.1	3664.9	3776.4	3836.8	3813.6
27.5°	3075.0	3195.8	3163.3	3056.4	3028.6	3070.4	3214.4	3284.0	3270.1
30°	2596.6	2675.5	2624.4	2434.0	2401.5	2452.6	2638.4	2708.0	2670.9
32.5°	2081.0	2141.4	2118.1	1885.9	1830.1	1881.2	2099.6	2164.6	2122.8
35°	1662.9	1718.7	1686.1	1412.1	1361.0	1416.7	1644.3	1718.7	1681.5
37.5°	1333.1	1374.9	1333.1	1040.5	994.0	1049.8	1268.1	1365.6	1319.2
40°	1059.1	1091.6	1035.8	766.4	729.3	757.1	961.5	1059.1	1026.6
42.5°	836.1	859.3	798.9	562.0	520.2	557.4	724.6	812.9	794.3
45°	678.2	678.2	603.9	390.2	339.1	376.2	543.5	636.4	641.0
47.5°	580.6	566.7	473.8	260.1	195.1	246.2	432.0	529.5	543.5
50°	501.7	483.1	390.2	190.4	125.4	176.5	357.7	455.2	469.1
52.5°	432.0	418.1	325.2	148.6	88.3	134.7	301.9	394.8	408.8
55°	362.3	353.0	269.4	116.1	69.7	102.2	241.5	320.5	329.8
57.5°	297.3	283.3	218.3	97.5	55.7	83.6	199.7	264.8	274.1
60°	250.8	236.9	176.5	79.0	46.5	65.0	162.6	218.3	227.6
62.5°	209.0	195.1	144.0	65.0	37.2	55.7	130.1	176.5	185.8
65°	167.2	157.9	111.5	51.1	32.5	41.8	102.2	139.4	148.6
67.5°	134.7	125.4	88.3	41.8	27.9	32.5	79.0	111.5	120.8
70°	102.2	92.9	65.0	32.5	23.2	27.9	60.4	83.6	92.9
72.5°	74.3	69.7	51.1	27.9	18.6	23.2	41.8	60.4	69.7
75°	55.7	51.1	37.2	18.6	13.9	18.6	32.5	46.5	51.1
77.5°	37.2	37.2	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)