

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: P859171

Luminaire Tested: **LD4C60D010 EU4609027 4LBMDSWMW**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859171
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 EU4609027 4LBMDSWMW
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

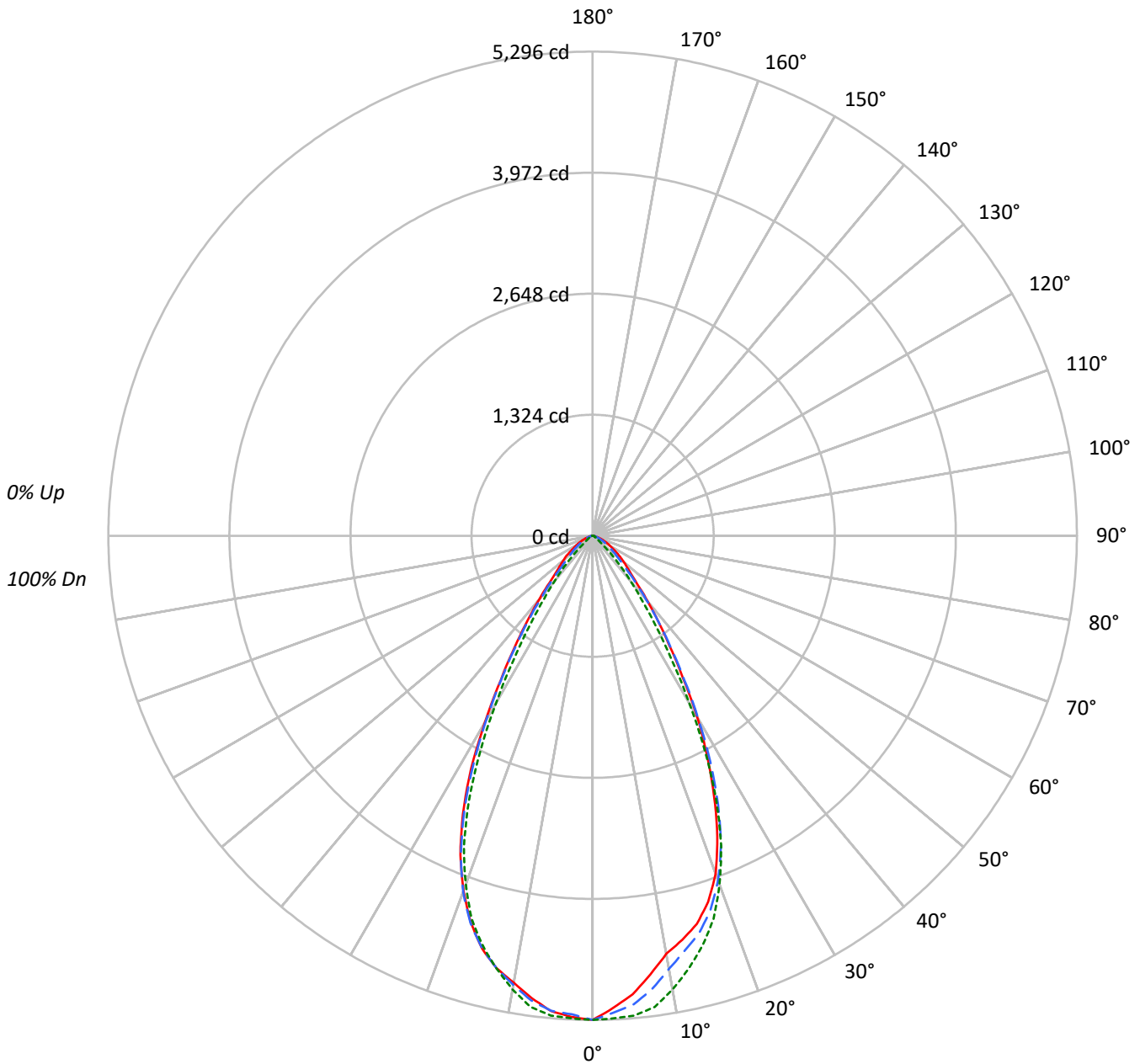
Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859171

CATALOG NUMBER: LD4C60D010 EU4609027 4LBMDSWMW

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°	650607	650607	650607
5°	620819	649566	643510
10°	579021	628509	619327
15°	559128	590340	594499
20°	514323	530365	539987
25°	426290	434043	455108
30°	324290	299918	333567
35°	219565	179702	222025
40°	149533	102960	144946
45°	103741	51862	98042
50°	84420	21100	78935
55°	68326	13130	62179
60°	54252	10049	49240
65°	42790	8314	38052
70°	32328	7328	29383
75°	23306	5838	21360
80°	17333	5801	14433
85°	11559	5779	11559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.9	10.1
10°-20°	1279.3	26.5
20°-30°	1467.8	30.4
30°-40°	891.7	18.5
40°-50°	382.1	7.9
50°-60°	183.3	3.8
60°-70°	89.1	1.8
70°-80°	33.1	0.7
80°-90°	7.6	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°	3234.0	67.1
0°-40°	4125.7	85.6
0°-60°	4691.2	97.3
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5296	5296	5296	5296	5296	
5°	5034	5144	5267	5214	5218	468
15°	4396	4498	4642	4670	4674	1224
25°	3145	3247	3202	3325	3357	1427
35°	1464	1484	1198	1448	1480	938
45°	597	532	298	478	564	485
55°	319	237	61	213	290	288
65°	147	98	29	90	131	149
75°	49	33	12	29	45	54
85°	8	8	4	4	8	11
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°	5295.8	5295.8	5295.8	5295.8	5295.8	5295.8	5295.8	5295.8	5295.8
2.5°	5169.0	5226.3	5222.2	5271.3	5283.5	5271.3	5238.5	5271.3	5267.2
5°	5034.1	5099.5	5144.5	5226.3	5267.2	5259.0	5214.0	5222.2	5218.1
7.5°	4837.8	4919.6	4997.3	5120.0	5197.7	5193.6	5128.1	5115.9	5099.5
10°	4641.5	4719.2	4809.2	4935.9	5038.2	5054.5	4989.1	4972.7	4964.6
12.5°	4527.0	4588.3	4649.7	4760.1	4850.1	4882.8	4846.0	4850.1	4846.0
15°	4396.1	4457.5	4498.4	4580.2	4641.5	4686.5	4670.1	4694.7	4674.2
17.5°	4199.8	4273.4	4289.8	4351.1	4396.1	4424.8	4441.1	4465.6	4432.9
20°	3934.0	3991.3	4011.7	4036.3	4056.7	4093.5	4142.6	4167.1	4130.3
22.5°	3561.9	3672.3	3668.2	3655.9	3676.4	3688.7	3766.4	3807.2	3778.6
25°	3144.8	3259.3	3247.0	3197.9	3202.0	3226.6	3324.7	3377.9	3357.4
27.5°	2707.2	2813.5	2784.9	2690.8	2666.3	2703.1	2829.9	2891.2	2879.0
30°	2286.0	2355.5	2310.5	2142.9	2114.2	2159.2	2322.8	2384.1	2351.4
32.5°	1832.1	1885.2	1864.8	1660.3	1611.2	1656.2	1848.4	1905.7	1868.9
35°	1464.0	1513.1	1484.5	1243.2	1198.2	1247.3	1447.7	1513.1	1480.4
37.5°	1173.7	1210.5	1173.7	916.0	875.1	924.2	1116.4	1202.3	1161.4
40°	932.4	961.0	911.9	674.8	642.0	666.6	846.5	932.4	903.8
42.5°	736.1	756.5	703.4	494.8	458.0	490.7	637.9	715.6	699.3
45°	597.1	597.1	531.6	343.5	298.5	331.2	478.5	560.3	564.3
47.5°	511.2	498.9	417.1	229.0	171.8	216.7	380.3	466.2	478.5
50°	441.7	425.3	343.5	167.7	110.4	155.4	314.9	400.8	413.0
52.5°	380.3	368.0	286.3	130.9	77.7	118.6	265.8	347.6	359.9
55°	319.0	310.8	237.2	102.2	61.3	90.0	212.6	282.2	290.3
57.5°	261.7	249.5	192.2	85.9	49.1	73.6	175.8	233.1	241.3
60°	220.8	208.6	155.4	69.5	40.9	57.3	143.1	192.2	200.4
62.5°	184.0	171.8	126.8	57.3	32.7	49.1	114.5	155.4	163.6
65°	147.2	139.0	98.1	45.0	28.6	36.8	90.0	122.7	130.9
67.5°	118.6	110.4	77.7	36.8	24.5	28.6	69.5	98.1	106.3
70°	90.0	81.8	57.3	28.6	20.4	24.5	53.2	73.6	81.8
72.5°	65.4	61.3	45.0	24.5	16.4	20.4	36.8	53.2	61.3
75°	49.1	45.0	32.7	16.4	12.3	16.4	28.6	40.9	45.0
77.5°	32.7	32.7	24.5	12.3	12.3	12.3	20.4	28.6	28.6
80°	24.5	20.4	16.4	8.2	8.2	8.2	12.3	20.4	20.4
82.5°	16.4	12.3	12.3	8.2	8.2	8.2	8.2	12.3	12.3
85°	8.2	8.2	8.2	4.1	4.1	4.1	4.1	8.2	8.2
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)