

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: P859211

Luminaire Tested: **LD4C60D010 EU4609035 4LBMDSWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C60D010 EU4609035 4LBMDSWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

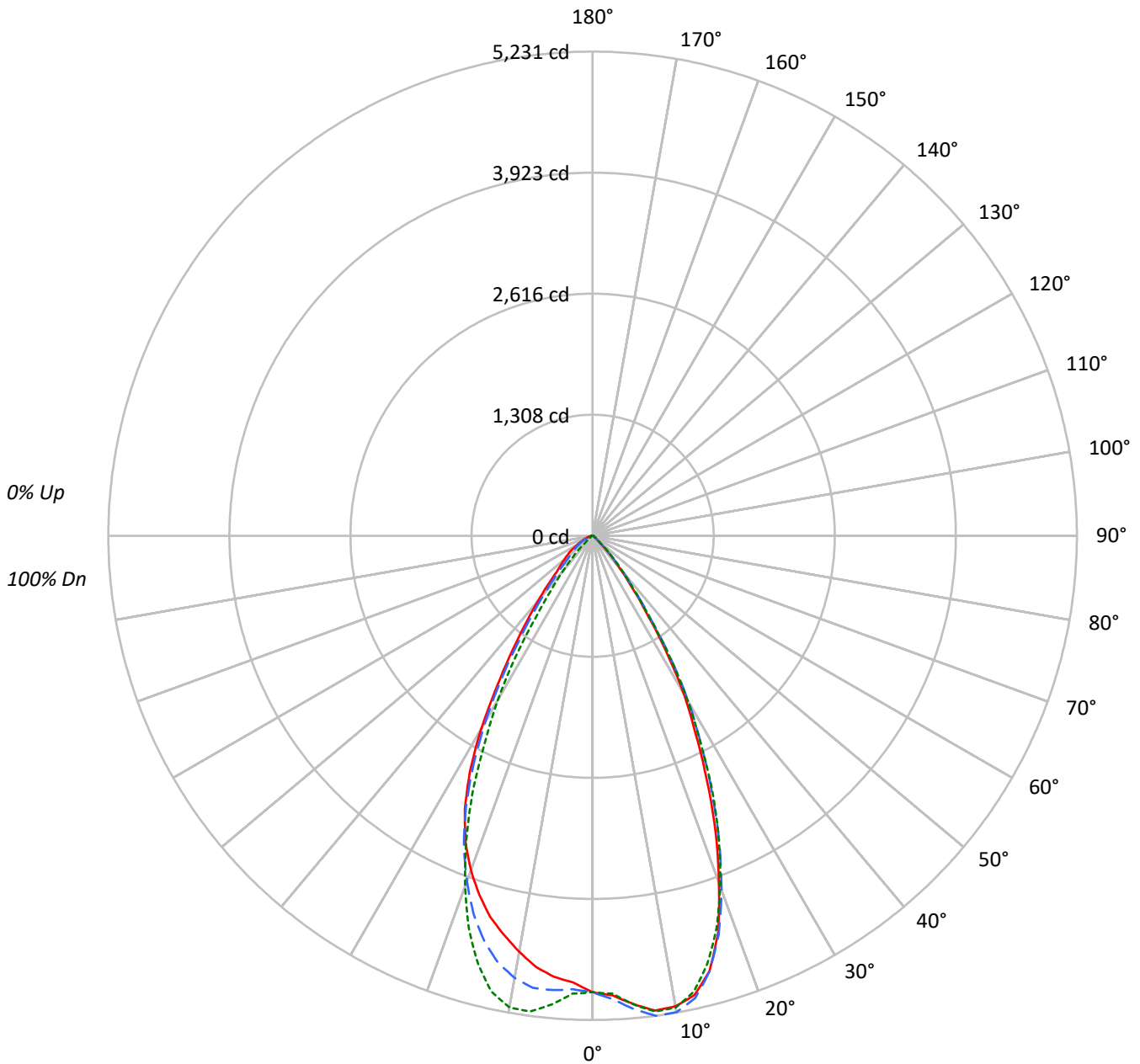
Lumens per Lamp: N/A
Luminaire Lumens: 4384.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	605790	605790	605790
5°	626418	626837	589791
10°	643766	645450	569241
15°	619440	608706	542594
20°	521566	526416	502583
25°	396197	416326	442407
30°	278654	290144	340419
35°	150336	157430	225250
40°	72537	80107	146149
45°	25801	35183	95002
50°	9671	12251	76126
55°	7240	8675	62886
60°	5799	6634	45603
65°	4913	5901	35320
70°	3628	4849	27874
75°	3228	4794	20838
80°	2405	4811	14362
85°	0	4793	9585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	11.0
10°-20°	1295.2	29.5
20°-30°	1405.0	32.0
30°-40°	779.5	17.8
40°-50°	248.3	5.7
50°-60°	100.1	2.3
60°-70°	50.6	1.2
70°-80°	20.9	0.5
80°-90°	4.3	0.1
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°	3180.3	72.5
0°-40°	3959.8	90.3
0°-60°	4308.1	98.3
0°-90°	4384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4931	4931	4931	4931	4931	
5°	5080	5134	5083	4928	4782	488
15°	4870	4874	4786	4529	4266	1332
25°	2923	3044	3071	3237	3264	1335
35°	1002	1083	1050	1387	1502	665
45°	148	176	202	452	547	142
55°	34	34	40	216	294	31
65°	17	17	20	98	122	17
75°	7	7	10	34	44	8
85°	0	0	3	7	7	0
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°	4931.0	4931.0	4931.0	4931.0	4931.0	4931.0	4931.0	4931.0	4931.0
2.5°	4971.5	5015.4	5012.0	4978.3	4951.3	4941.1	4904.0	4860.1	4829.8
5°	5079.5	5133.5	5133.5	5106.5	5082.9	5025.5	4927.6	4833.1	4782.5
7.5°	5174.0	5228.0	5231.4	5211.1	5184.1	5089.6	4927.6	4775.8	4698.1
10°	5160.5	5201.0	5224.6	5204.4	5174.0	5049.1	4850.0	4647.5	4563.1
12.5°	5082.9	5120.0	5116.6	5086.3	5045.8	4917.5	4721.8	4512.5	4418.0
15°	4870.3	4890.5	4873.6	4839.9	4785.9	4688.0	4529.4	4350.5	4266.1
17.5°	4502.4	4529.4	4522.6	4468.6	4448.4	4353.9	4279.6	4141.2	4067.0
20°	3989.4	4073.7	4073.7	4033.2	4026.5	3962.4	3972.5	3898.2	3844.2
22.5°	3473.0	3547.2	3570.9	3554.0	3567.5	3537.1	3631.6	3611.4	3584.4
25°	2922.8	2997.1	3044.3	3037.6	3071.3	3071.3	3236.7	3277.2	3263.7
27.5°	2406.4	2477.3	2531.3	2544.8	2524.6	2561.7	2787.8	2868.8	2868.8
30°	1964.3	2021.7	2072.3	2072.3	2045.3	2072.3	2311.9	2406.4	2399.7
32.5°	1464.8	1528.9	1576.2	1569.4	1545.8	1582.9	1836.1	1930.6	1906.9
35°	1002.4	1046.3	1083.4	1069.9	1049.7	1110.4	1387.2	1505.3	1501.9
37.5°	678.4	718.9	742.5	732.4	725.6	796.5	1049.7	1181.3	1174.5
40°	452.3	479.3	496.1	492.8	499.5	560.3	789.8	911.3	911.3
42.5°	286.9	303.8	320.6	320.6	337.5	401.6	600.8	705.4	705.4
45°	148.5	158.6	175.5	185.6	202.5	270.0	452.3	540.0	546.8
47.5°	70.9	74.3	81.0	84.4	97.9	168.8	347.6	442.1	462.4
50°	50.6	54.0	54.0	54.0	64.1	128.3	293.6	381.4	398.3
52.5°	40.5	40.5	40.5	43.9	50.6	108.0	253.1	330.8	344.3
55°	33.8	33.8	33.8	33.8	40.5	87.8	216.0	283.5	293.6
57.5°	27.0	27.0	27.0	27.0	33.8	70.9	178.9	226.1	229.5
60°	23.6	23.6	23.6	23.6	27.0	60.8	145.1	185.6	185.6
62.5°	20.3	20.3	20.3	20.3	23.6	50.6	121.5	151.9	148.5
65°	16.9	16.9	16.9	16.9	20.3	40.5	97.9	121.5	121.5
67.5°	13.5	13.5	13.5	13.5	16.9	33.8	77.6	97.9	97.9
70°	10.1	10.1	10.1	10.1	13.5	27.0	64.1	77.6	77.6
72.5°	10.1	10.1	10.1	10.1	10.1	20.3	47.3	60.8	57.4
75°	6.8	6.8	6.8	6.8	10.1	16.9	33.8	43.9	43.9
77.5°	6.8	6.8	6.8	6.8	6.8	13.5	27.0	30.4	30.4
80°	3.4	3.4	3.4	3.4	6.8	10.1	16.9	20.3	20.3
82.5°	0.0	3.4	0.0	3.4	3.4	6.8	13.5	13.5	13.5
85°	0.0	0.0	0.0	0.0	3.4	3.4	6.8	10.1	6.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	3.4
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)