

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: P859253

Luminaire Tested: **LD4C60D010 EU4609050 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859253
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 EU4609050 4LBMDSWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

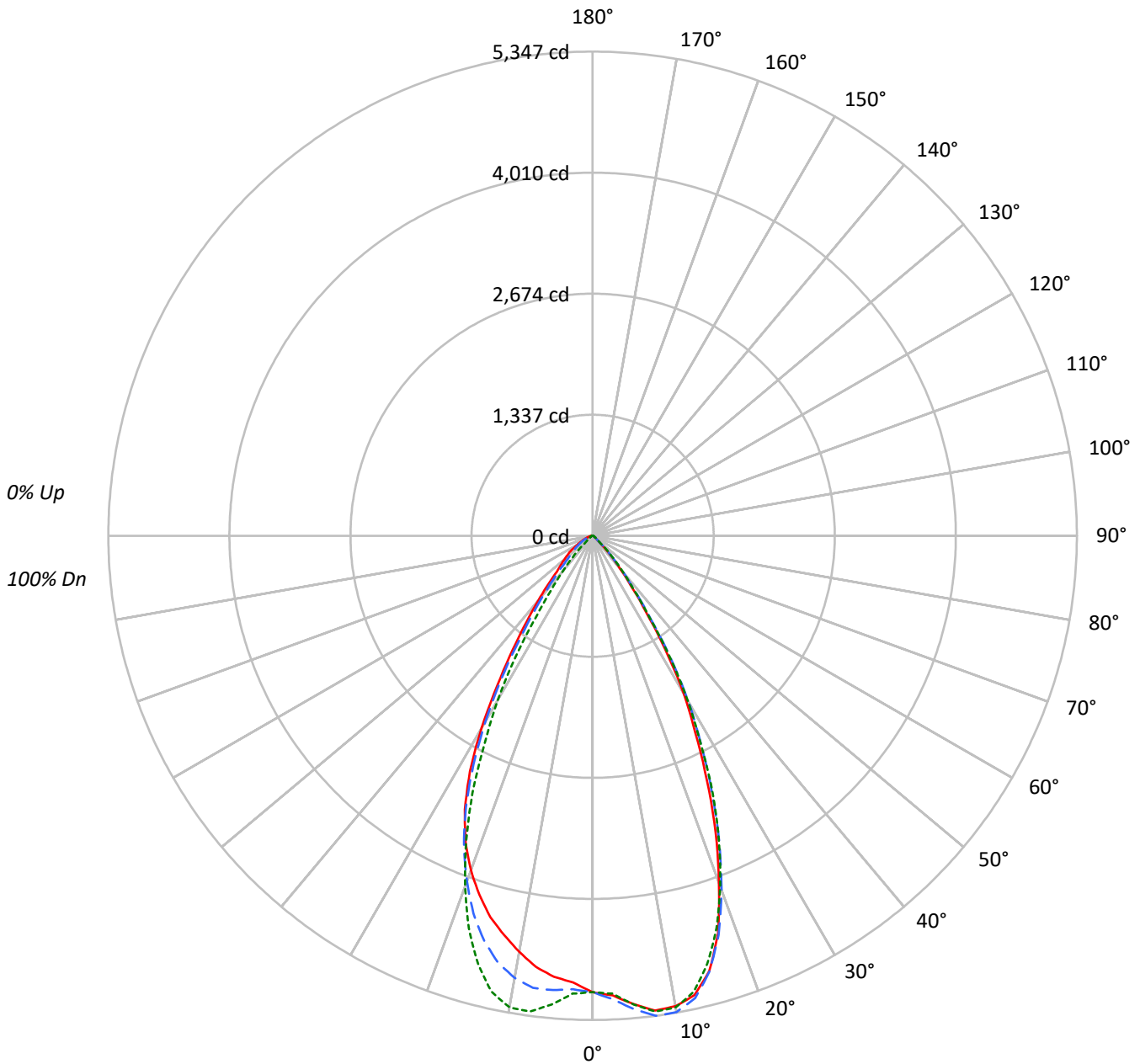
Lumens per Lamp: N/A
Luminaire Lumens: 4480.9 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859253

CATALOG NUMBER: LD4C60D010 EU4609050 4LBMDSWLI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
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°	619194	619194	619194
5°	640279	640711	602839
10°	658012	659733	581840
15°	633138	622175	554600
20°	533097	538065	513709
25°	404967	425544	452194
30°	284824	296570	347952
35°	153666	160910	230229
40°	74141	81887	149372
45°	26374	35964	97104
50°	9881	12519	77807
55°	7390	8867	64278
60°	5922	6782	46611
65°	5000	6017	36104
70°	3700	4957	28485
75°	3275	4889	21265
80°	2405	4882	14645
85°	0	4793	9726



TEST NUMBER: P859253

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.7	11.0
10°-20°	1323.8	29.5
20°-30°	1436.1	32.0
30°-40°	796.8	17.8
40°-50°	253.8	5.7
50°-60°	102.3	2.3
60°-70°	51.7	1.2
70°-80°	21.4	0.5
80°-90°	4.4	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°	3250.6	72.5
0°-40°	4047.4	90.3
0°-60°	4403.4	98.3
0°-90°	4480.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5040	5040	5040	5040	5040	
5°	5192	5247	5195	5037	4888	499
15°	4978	4982	4892	4630	4360	1361
25°	2988	3112	3139	3308	3336	1365
35°	1025	1107	1073	1418	1535	680
45°	152	179	207	462	559	145
55°	34	34	41	221	300	31
65°	17	17	21	100	124	17
75°	7	7	10	34	45	8
85°	0	0	3	7	7	0
90°	0	0	0	0	0	



TEST NUMBER: P859253

CATALOG NUMBER: LD4C60D010 EU4609050 4LBMSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5040.1	5040.1	5040.1	5040.1	5040.1	5040.1	5040.1	5040.1	5040.1
2.5°	5081.5	5126.4	5122.9	5088.4	5060.8	5050.5	5012.5	4967.7	4936.6
5°	5191.9	5247.1	5247.1	5219.5	5195.4	5136.7	5036.7	4940.1	4888.3
7.5°	5288.5	5343.7	5347.1	5326.4	5298.9	5202.3	5036.7	4881.4	4802.1
10°	5274.7	5316.1	5340.2	5319.5	5288.5	5160.9	4957.3	4750.3	4664.1
12.5°	5195.4	5233.3	5229.9	5198.8	5157.4	5026.3	4826.2	4612.3	4515.8
15°	4978.0	4998.7	4981.5	4947.0	4891.8	4791.7	4629.6	4446.8	4360.5
17.5°	4602.0	4629.6	4622.7	4567.5	4546.8	4450.2	4374.3	4232.9	4157.0
20°	4077.6	4163.9	4163.9	4122.5	4115.6	4050.0	4060.4	3984.5	3929.3
22.5°	3549.8	3625.7	3649.9	3632.6	3646.4	3615.4	3712.0	3691.3	3663.7
25°	2987.5	3063.4	3111.7	3104.8	3139.3	3139.3	3308.3	3349.7	3335.9
27.5°	2459.7	2532.1	2587.3	2601.1	2580.4	2618.4	2849.5	2932.3	2932.3
30°	2007.8	2066.4	2118.2	2118.2	2090.6	2118.2	2363.1	2459.7	2452.8
32.5°	1497.2	1562.7	1611.0	1604.1	1580.0	1617.9	1876.7	1973.3	1949.1
35°	1024.6	1069.4	1107.4	1093.6	1072.9	1135.0	1417.9	1538.6	1535.1
37.5°	693.4	734.8	758.9	748.6	741.7	814.1	1072.9	1207.4	1200.5
40°	462.3	489.9	507.1	503.7	510.6	572.7	807.2	931.4	931.4
42.5°	293.2	310.5	327.7	327.7	345.0	410.5	614.1	721.0	721.0
45°	151.8	162.1	179.4	189.7	207.0	276.0	462.3	552.0	558.9
47.5°	72.4	75.9	82.8	86.2	100.0	172.5	355.3	451.9	472.6
50°	51.7	55.2	55.2	55.2	65.5	131.1	300.1	389.8	407.1
52.5°	41.4	41.4	41.4	44.8	51.7	110.4	258.7	338.1	351.9
55°	34.5	34.5	34.5	34.5	41.4	89.7	220.8	289.8	300.1
57.5°	27.6	27.6	27.6	27.6	34.5	72.4	182.8	231.1	234.6
60°	24.1	24.1	24.1	24.1	27.6	62.1	148.3	189.7	189.7
62.5°	20.7	20.7	20.7	20.7	24.1	51.7	124.2	155.2	151.8
65°	17.2	17.2	17.2	17.2	20.7	41.4	100.0	124.2	124.2
67.5°	13.8	13.8	13.8	13.8	17.2	34.5	79.3	100.0	100.0
70°	10.3	10.3	10.3	10.3	13.8	27.6	65.5	79.3	79.3
72.5°	10.3	10.3	10.3	10.3	10.3	20.7	48.3	62.1	58.6
75°	6.9	6.9	6.9	6.9	10.3	17.2	34.5	44.8	44.8
77.5°	6.9	6.9	6.9	6.9	6.9	13.8	27.6	31.0	31.0
80°	3.4	3.4	3.4	3.4	6.9	10.3	17.2	20.7	20.7
82.5°	0.0	3.4	0.0	3.4	3.4	6.9	13.8	13.8	13.8
85°	0.0	0.0	0.0	0.0	3.4	3.4	6.9	10.3	6.9
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)