

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: P859190

Luminaire Tested: **LD4C60D010 EU4609030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859190
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 EU4609030 4LBMDSWLI
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

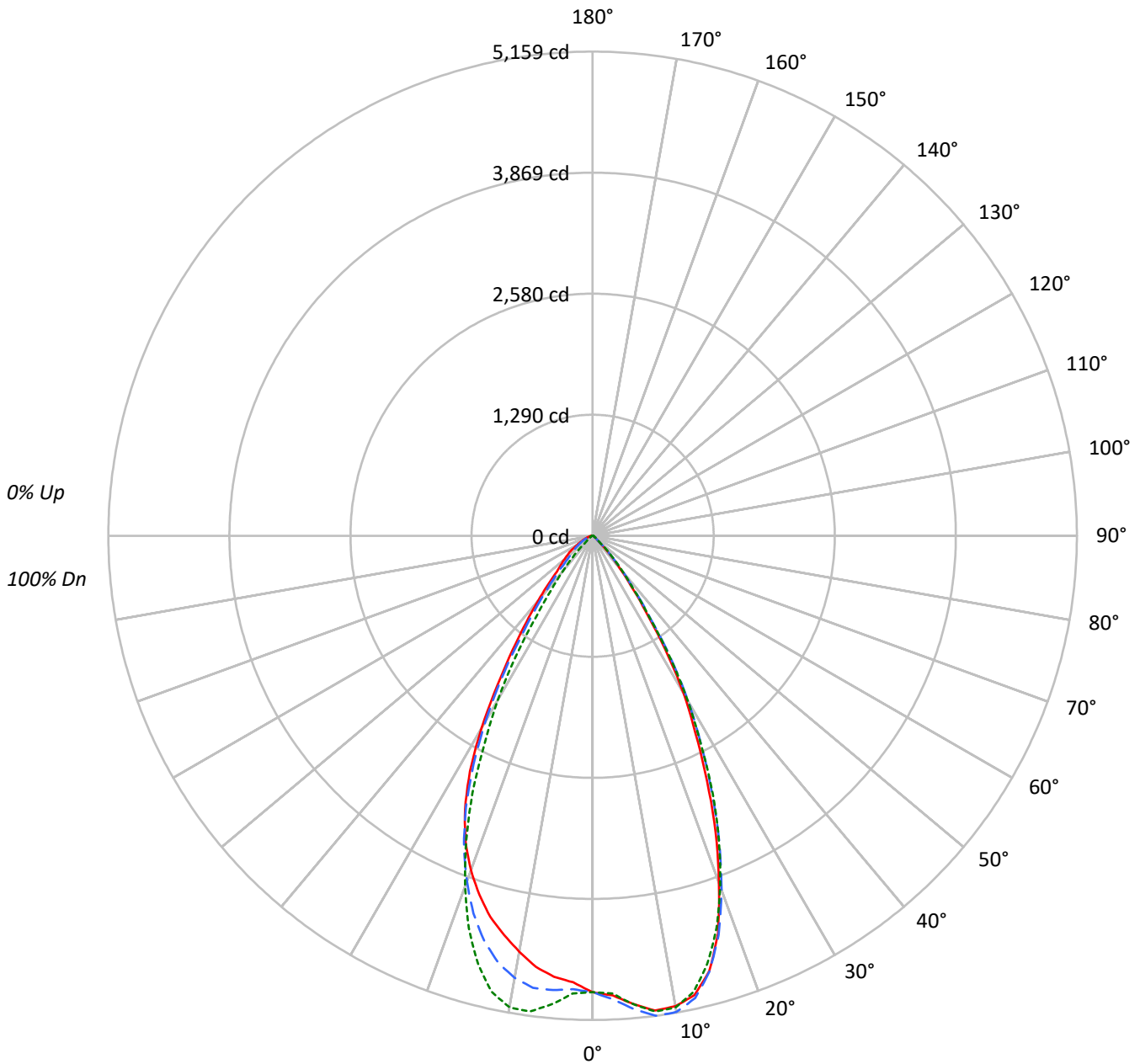
Lumens per Lamp: N/A
Luminaire Lumens: 4323.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859190

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859190

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWLI

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°	597363	597363	597363
5°	617699	618118	581590
10°	634809	636468	561319
15°	610817	600235	535051
20°	514310	519095	495588
25°	390693	410538	436253
30°	274781	286101	335681
35°	148252	155226	222115
40°	71527	79000	144112
45°	25436	34696	93681
50°	9537	12079	75055
55°	7132	8546	62008
60°	5725	6536	44964
65°	4826	5814	34825
70°	3592	4777	27479
75°	3180	4747	20553
80°	2335	4740	14150
85°	0	4652	9444



TEST NUMBER: P859190

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	11.0
10°-20°	1277.2	29.5
20°-30°	1385.4	32.0
30°-40°	768.7	17.8
40°-50°	244.8	5.7
50°-60°	98.7	2.3
60°-70°	49.9	1.2
70°-80°	20.6	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°	3136.0	72.5
0°-40°	3904.7	90.3
0°-60°	4248.2	98.3
0°-90°	4323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4862	4862	4862	4862	4862	
5°	5009	5062	5012	4859	4716	481
15°	4802	4806	4719	4466	4207	1313
25°	2882	3002	3029	3192	3218	1316
35°	988	1068	1035	1368	1481	656
45°	146	173	200	446	539	140
55°	33	33	40	213	290	30
65°	17	17	20	96	120	16
75°	7	7	10	33	43	8
85°	0	0	3	7	7	0
90°	0	0	0	0	0	



TEST NUMBER: P859190

CATALOG NUMBER: LD4C60D010 EU4609030 4LBMSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4
2.5°	4902.3	4945.6	4942.3	4909.0	4882.4	4872.4	4835.8	4792.5	4762.6
5°	5008.8	5062.1	5062.1	5035.5	5012.2	4955.6	4859.1	4765.9	4716.0
7.5°	5102.0	5155.3	5158.6	5138.6	5112.0	5018.8	4859.1	4709.3	4632.8
10°	5088.7	5128.7	5152.0	5132.0	5102.0	4978.9	4782.5	4582.8	4499.6
12.5°	5012.2	5048.8	5045.5	5015.5	4975.6	4849.1	4656.1	4449.7	4356.5
15°	4802.5	4822.5	4805.8	4772.5	4719.3	4622.8	4466.4	4290.0	4206.8
17.5°	4439.7	4466.4	4459.7	4406.4	4386.5	4293.3	4220.1	4083.6	4010.4
20°	3933.9	4017.1	4017.1	3977.1	3970.5	3907.2	3917.2	3844.0	3790.7
22.5°	3424.6	3497.9	3521.2	3504.5	3517.8	3487.9	3581.1	3561.1	3534.5
25°	2882.2	2955.4	3002.0	2995.3	3028.6	3028.6	3191.7	3231.6	3218.3
27.5°	2373.0	2442.8	2496.1	2509.4	2489.4	2526.1	2749.0	2828.9	2828.9
30°	1937.0	1993.6	2043.5	2043.5	2016.8	2043.5	2279.8	2373.0	2366.3
32.5°	1444.4	1507.6	1554.2	1547.6	1524.3	1560.9	1810.5	1903.7	1880.4
35°	988.5	1031.7	1068.3	1055.0	1035.0	1095.0	1367.9	1484.3	1481.0
37.5°	669.0	708.9	732.2	722.2	715.5	785.4	1035.0	1164.8	1158.2
40°	446.0	472.6	489.2	485.9	492.6	552.5	778.8	898.6	898.6
42.5°	282.9	299.5	316.2	316.2	332.8	396.0	592.4	695.6	695.6
45°	146.4	156.4	173.1	183.0	199.7	266.3	446.0	532.5	539.2
47.5°	69.9	73.2	79.9	83.2	96.5	166.4	342.8	436.0	456.0
50°	49.9	53.3	53.3	53.3	63.2	126.5	289.5	376.1	392.7
52.5°	39.9	39.9	39.9	43.3	49.9	106.5	249.6	326.2	339.5
55°	33.3	33.3	33.3	33.3	39.9	86.5	213.0	279.6	289.5
57.5°	26.6	26.6	26.6	26.6	33.3	69.9	176.4	223.0	226.3
60°	23.3	23.3	23.3	23.3	26.6	59.9	143.1	183.0	183.0
62.5°	20.0	20.0	20.0	20.0	23.3	49.9	119.8	149.8	146.4
65°	16.6	16.6	16.6	16.6	20.0	39.9	96.5	119.8	119.8
67.5°	13.3	13.3	13.3	13.3	16.6	33.3	76.5	96.5	96.5
70°	10.0	10.0	10.0	10.0	13.3	26.6	63.2	76.5	76.5
72.5°	10.0	10.0	10.0	10.0	10.0	20.0	46.6	59.9	56.6
75°	6.7	6.7	6.7	6.7	10.0	16.6	33.3	43.3	43.3
77.5°	6.7	6.7	6.7	6.7	6.7	13.3	26.6	30.0	30.0
80°	3.3	3.3	3.3	3.3	6.7	10.0	16.6	20.0	20.0
82.5°	0.0	3.3	0.0	3.3	3.3	6.7	13.3	13.3	13.3
85°	0.0	0.0	0.0	0.0	3.3	3.3	6.7	10.0	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3
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)