

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: P859320

Luminaire Tested: **LD4C65D010 EU4659027 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859320
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: LD4C65D010 EU4659027 4LBMDSWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

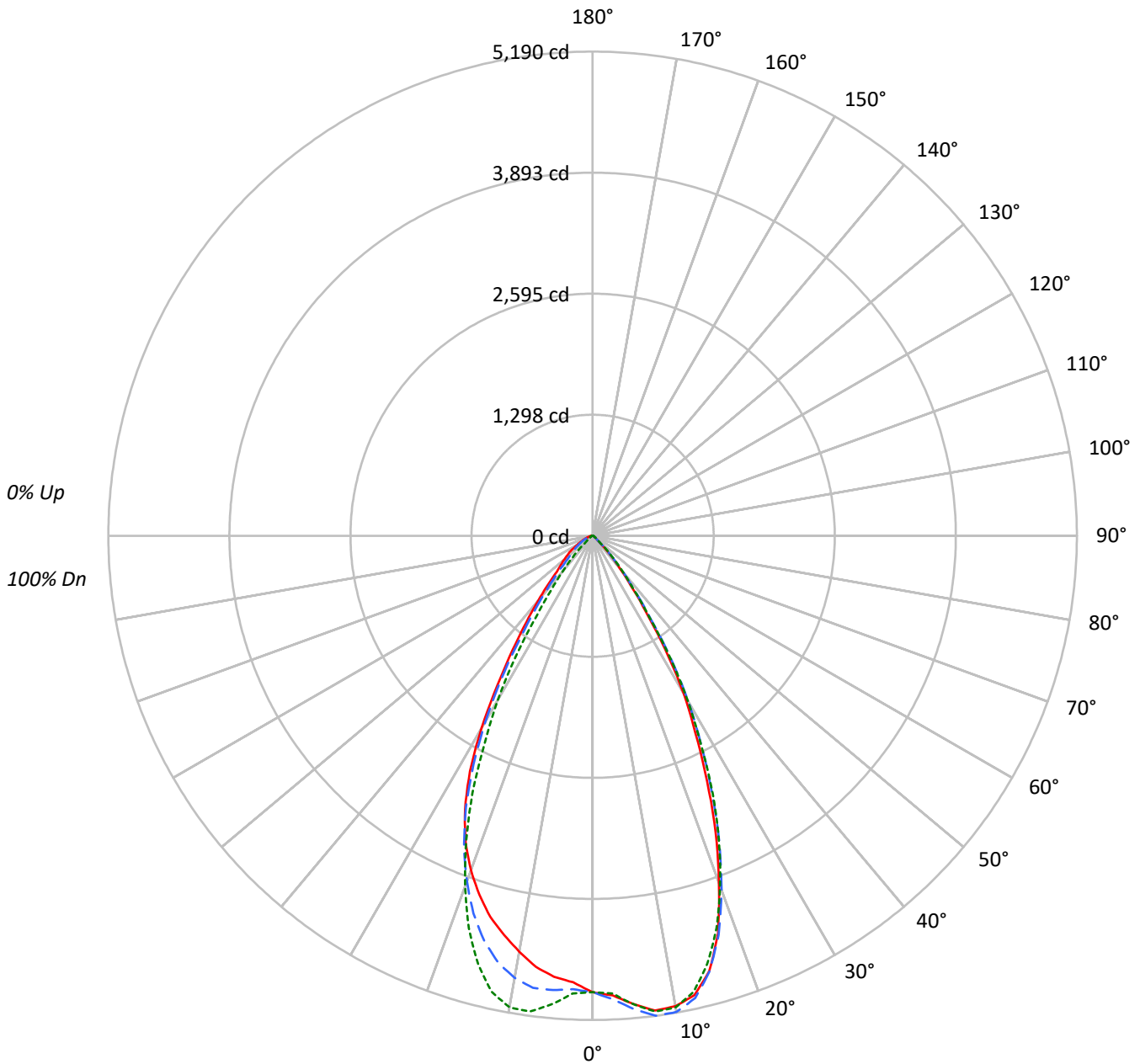
Lumens per Lamp: N/A
Luminaire Lumens: 4349.0 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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: P859320

CATALOG NUMBER: LD4C65D010 EU4659027 4LBMDSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P859320

CATALOG NUMBER: LD4C65D010 EU4659027 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°	600950	600950	600950
5°	621423	621830	585080
10°	638626	640298	564700
15°	614493	603847	538269
20°	517395	522207	498569
25°	393038	413005	438883
30°	276426	287832	337695
35°	149137	156170	223450
40°	71960	79465	144978
45°	25592	34905	94237
50°	9595	12156	75514
55°	7175	8610	62393
60°	5750	6585	45235
65°	4855	5843	35029
70°	3592	4813	27658
75°	3180	4747	20648
80°	2335	4740	14220
85°	0	4652	9444



TEST NUMBER: P859320

CATALOG NUMBER: LD4C65D010 EU4659027 4LBMDSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.3	11.0
10°-20°	1284.9	29.5
20°-30°	1393.7	32.0
30°-40°	773.3	17.8
40°-50°	246.3	5.7
50°-60°	99.3	2.3
60°-70°	50.2	1.2
70°-80°	20.7	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°	3154.9	72.5
0°-40°	3928.2	90.3
0°-60°	4273.8	98.3
0°-90°	4349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4349.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4892	4892	4892	4892	4892	
5°	5039	5092	5042	4888	4744	484
15°	4831	4835	4748	4493	4232	1321
25°	2900	3020	3047	3211	3238	1324
35°	994	1075	1041	1376	1490	660
45°	147	174	201	449	542	141
55°	34	34	40	214	291	31
65°	17	17	20	97	120	17
75°	7	7	10	34	44	8
85°	0	0	3	7	7	0
90°	0	0	0	0	0	



TEST NUMBER: P859320

CATALOG NUMBER: LD4C65D010 EU4659027 4LBMSWLI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4891.6	4891.6	4891.6	4891.6	4891.6	4891.6	4891.6	4891.6	4891.6
2.5°	4931.8	4975.4	4972.0	4938.5	4911.7	4901.7	4864.9	4821.3	4791.2
5°	5039.0	5092.5	5092.5	5065.8	5042.3	4985.4	4888.3	4794.6	4744.3
7.5°	5132.7	5186.3	5189.6	5169.5	5142.8	5049.0	4888.3	4737.6	4660.6
10°	5119.3	5159.5	5182.9	5162.8	5132.7	5008.8	4811.3	4610.4	4526.7
12.5°	5042.3	5079.1	5075.8	5045.7	5005.5	4878.3	4684.1	4476.5	4382.7
15°	4831.4	4851.5	4834.7	4801.2	4747.7	4650.6	4493.2	4315.8	4232.1
17.5°	4466.4	4493.2	4486.5	4433.0	4412.9	4319.1	4245.5	4108.2	4034.5
20°	3957.5	4041.2	4041.2	4001.0	3994.3	3930.7	3940.8	3867.1	3813.5
22.5°	3445.2	3518.9	3542.3	3525.6	3539.0	3508.9	3602.6	3582.5	3555.7
25°	2899.5	2973.2	3020.0	3013.3	3046.8	3046.8	3210.9	3251.1	3237.7
27.5°	2387.2	2457.5	2511.1	2524.5	2504.4	2541.2	2765.6	2845.9	2845.9
30°	1948.6	2005.5	2055.8	2055.8	2029.0	2055.8	2293.5	2387.2	2380.5
32.5°	1453.1	1516.7	1563.6	1556.9	1533.5	1570.3	1821.4	1915.1	1891.7
35°	994.4	1037.9	1074.8	1061.4	1041.3	1101.5	1376.1	1493.3	1489.9
37.5°	673.0	713.2	736.6	726.5	719.9	790.2	1041.3	1171.9	1165.2
40°	448.7	475.4	492.2	488.8	495.5	555.8	783.5	904.0	904.0
42.5°	284.6	301.3	318.1	318.1	334.8	398.4	596.0	699.8	699.8
45°	147.3	157.4	174.1	184.1	200.9	267.9	448.7	535.7	542.4
47.5°	70.3	73.7	80.4	83.7	97.1	167.4	344.9	438.6	458.7
50°	50.2	53.6	53.6	53.6	63.6	127.2	291.3	378.3	395.1
52.5°	40.2	40.2	40.2	43.5	50.2	107.1	251.1	328.1	341.5
55°	33.5	33.5	33.5	33.5	40.2	87.1	214.3	281.2	291.3
57.5°	26.8	26.8	26.8	26.8	33.5	70.3	177.5	224.3	227.7
60°	23.4	23.4	23.4	23.4	26.8	60.3	144.0	184.1	184.1
62.5°	20.1	20.1	20.1	20.1	23.4	50.2	120.5	150.7	147.3
65°	16.7	16.7	16.7	16.7	20.1	40.2	97.1	120.5	120.5
67.5°	13.4	13.4	13.4	13.4	16.7	33.5	77.0	97.1	97.1
70°	10.0	10.0	10.0	10.0	13.4	26.8	63.6	77.0	77.0
72.5°	10.0	10.0	10.0	10.0	10.0	20.1	46.9	60.3	56.9
75°	6.7	6.7	6.7	6.7	10.0	16.7	33.5	43.5	43.5
77.5°	6.7	6.7	6.7	6.7	6.7	13.4	26.8	30.1	30.1
80°	3.3	3.3	3.3	3.3	6.7	10.0	16.7	20.1	20.1
82.5°	0.0	3.3	0.0	3.3	3.3	6.7	13.4	13.4	13.4
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)