

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: P859122

Luminaire Tested: **LD4C55D010 EU4559040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859122
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: LD4C55D010 EU4559040 4LBMDSWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

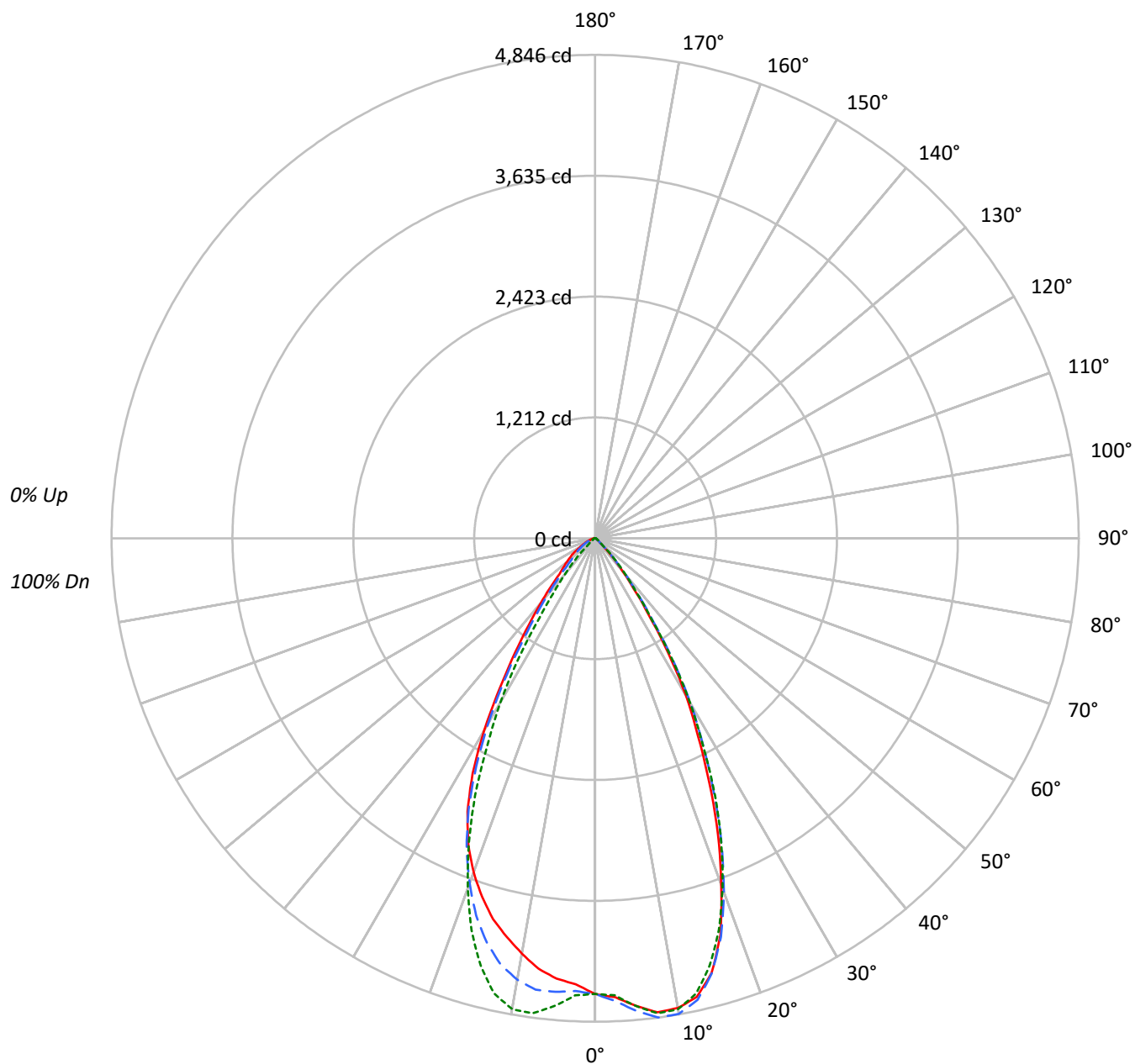
Lumens per Lamp: N/A
Luminaire Lumens: 4061.0 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	561158	561158	561158
5°	580271	580653	546332
10°	596336	597896	527300
15°	573793	563859	502619
20°	483129	487626	465558
25°	367012	385651	409820
30°	258127	268766	315338
35°	139253	145822	208662
40°	67181	74205	135372
45°	23907	32594	88000
50°	8964	11353	70506
55°	6704	8032	58259
60°	5381	6143	42262
65°	4535	5465	32732
70°	3376	4490	25826
75°	2990	4462	19272
80°	2193	4457	13301
85°	0	4370	8880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.7	11.0
10°-20°	1199.8	29.5
20°-30°	1301.5	32.0
30°-40°	722.1	17.8
40°-50°	230.0	5.7
50°-60°	92.7	2.3
60°-70°	46.9	1.2
70°-80°	19.4	0.5
80°-90°	4.0	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°	2945.9	72.5
0°-40°	3668.0	90.3
0°-60°	3990.7	98.3
0°-90°	4061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4568	4568	4568	4568	4568	
5°	4705	4755	4708	4565	4430	452
15°	4511	4515	4433	4196	3952	1234
25°	2708	2820	2845	2998	3023	1237
35°	928	1004	972	1285	1391	616
45°	138	163	188	419	506	132
55°	31	31	38	200	272	29
65°	16	16	19	91	113	15
75°	6	6	9	31	41	7
85°	0	0	3	6	6	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°	4567.7	4567.7	4567.7	4567.7	4567.7	4567.7	4567.7	4567.7	4567.7
2.5°	4605.2	4645.9	4642.7	4611.5	4586.5	4577.1	4542.7	4502.1	4473.9
5°	4705.3	4755.3	4755.3	4730.3	4708.4	4655.3	4564.6	4477.0	4430.1
7.5°	4792.8	4842.8	4846.0	4827.2	4802.2	4714.7	4564.6	4423.9	4352.0
10°	4780.3	4817.8	4839.7	4821.0	4792.8	4677.1	4492.7	4305.1	4226.9
12.5°	4708.4	4742.8	4739.7	4711.5	4674.0	4555.2	4373.9	4180.0	4092.5
15°	4511.4	4530.2	4514.6	4483.3	4433.3	4342.6	4195.7	4030.0	3951.8
17.5°	4170.7	4195.7	4189.4	4139.4	4120.6	4033.1	3964.3	3836.1	3767.3
20°	3695.4	3773.6	3773.6	3736.1	3729.8	3670.4	3679.8	3611.0	3561.0
22.5°	3217.1	3285.9	3307.8	3292.1	3304.6	3276.5	3364.0	3345.3	3320.3
25°	2707.5	2776.3	2820.0	2813.8	2845.0	2845.0	2998.2	3035.8	3023.3
27.5°	2229.1	2294.8	2344.8	2357.3	2338.6	2373.0	2582.4	2657.5	2657.5
30°	1819.6	1872.7	1919.6	1919.6	1894.6	1919.6	2141.6	2229.1	2222.9
32.5°	1356.9	1416.3	1460.0	1453.8	1431.9	1466.3	1700.8	1788.3	1766.4
35°	928.5	969.2	1003.6	991.1	972.3	1028.6	1285.0	1394.4	1391.3
37.5°	628.4	665.9	687.8	678.4	672.2	737.8	972.3	1094.2	1088.0
40°	418.9	444.0	459.6	456.5	462.7	519.0	731.6	844.1	844.1
42.5°	265.7	281.4	297.0	297.0	312.6	372.0	556.5	653.4	653.4
45°	137.6	146.9	162.6	172.0	187.6	250.1	418.9	500.2	506.5
47.5°	65.7	68.8	75.0	78.2	90.7	156.3	322.0	409.6	428.3
50°	46.9	50.0	50.0	50.0	59.4	118.8	272.0	353.3	368.9
52.5°	37.5	37.5	37.5	40.6	46.9	100.0	234.5	306.4	318.9
55°	31.3	31.3	31.3	31.3	37.5	81.3	200.1	262.6	272.0
57.5°	25.0	25.0	25.0	25.0	31.3	65.7	165.7	209.5	212.6
60°	21.9	21.9	21.9	21.9	25.0	56.3	134.4	172.0	172.0
62.5°	18.8	18.8	18.8	18.8	21.9	46.9	112.6	140.7	137.6
65°	15.6	15.6	15.6	15.6	18.8	37.5	90.7	112.6	112.6
67.5°	12.5	12.5	12.5	12.5	15.6	31.3	71.9	90.7	90.7
70°	9.4	9.4	9.4	9.4	12.5	25.0	59.4	71.9	71.9
72.5°	9.4	9.4	9.4	9.4	9.4	18.8	43.8	56.3	53.1
75°	6.3	6.3	6.3	6.3	9.4	15.6	31.3	40.6	40.6
77.5°	6.3	6.3	6.3	6.3	6.3	12.5	25.0	28.1	28.1
80°	3.1	3.1	3.1	3.1	6.3	9.4	15.6	18.8	18.8
82.5°	0.0	3.1	0.0	3.1	3.1	6.3	12.5	12.5	12.5
85°	0.0	0.0	0.0	0.0	3.1	3.1	6.3	9.4	6.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1
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)