

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: P859383

Luminaire Tested: **LD4C65D010 EU4659040 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859383
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 EU4659040 4LBMDSWLI
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

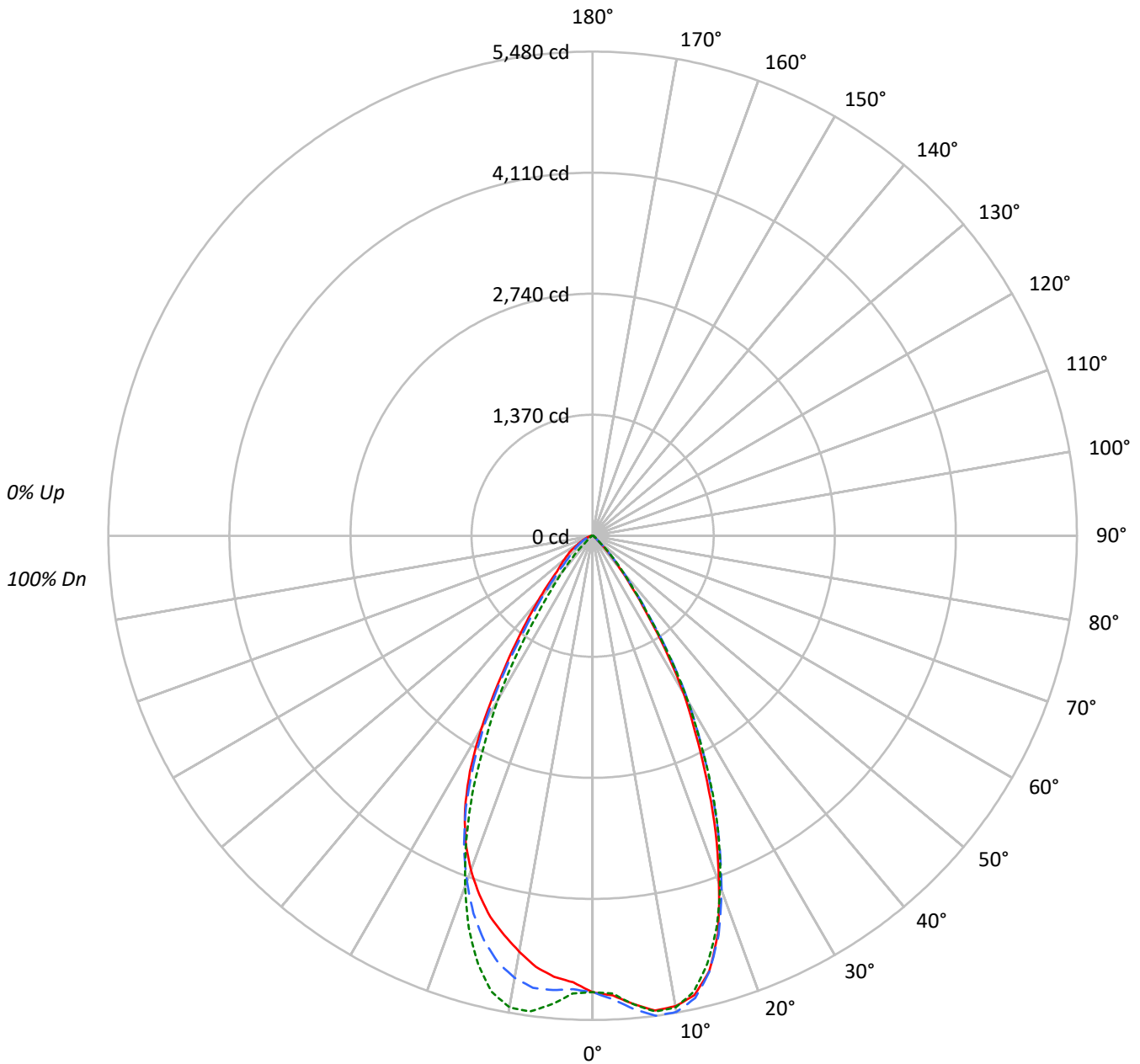
Lumens per Lamp: N/A
Luminaire Lumens: 4592.0 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	634538	634538	634538
5°	656139	656583	617773
10°	674317	676076	596249
15°	648820	637590	568336
20°	546302	551387	526429
25°	414998	436090	463404
30°	291875	303904	356563
35°	157475	164899	235943
40°	75969	83908	153077
45°	27034	36850	99501
50°	10130	12844	79738
55°	7582	9082	65884
60°	6069	6954	47765
65°	5145	6163	37006
70°	3808	5065	29203
75°	3370	5031	21835
80°	2476	5023	14999
85°	0	4934	10008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.9	11.0
10°-20°	1356.6	29.5
20°-30°	1471.6	32.0
30°-40°	816.5	17.8
40°-50°	260.1	5.7
50°-60°	104.8	2.3
60°-70°	53.0	1.2
70°-80°	21.9	0.5
80°-90°	4.5	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°	3331.1	72.5
0°-40°	4147.6	90.3
0°-60°	4512.5	98.3
0°-90°	4592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5165	5165	5165	5165	5165	
5°	5320	5377	5324	5161	5009	511
15°	5101	5105	5013	4744	4468	1395
25°	3062	3189	3217	3390	3419	1398
35°	1050	1135	1100	1453	1573	696
45°	156	184	212	474	573	149
55°	35	35	42	226	308	32
65°	18	18	21	102	127	17
75°	7	7	11	35	46	8
85°	0	0	4	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°	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0
2.5°	5207.4	5253.3	5249.8	5214.5	5186.2	5175.6	5136.7	5090.7	5058.9
5°	5320.5	5377.1	5377.1	5348.8	5324.1	5264.0	5161.4	5062.4	5009.4
7.5°	5419.5	5476.1	5479.6	5458.4	5430.1	5331.1	5161.4	5002.3	4921.0
10°	5405.4	5447.8	5472.5	5451.3	5419.5	5288.7	5080.1	4868.0	4779.6
12.5°	5324.1	5362.9	5359.4	5327.6	5285.2	5150.8	4945.8	4726.6	4627.6
15°	5101.3	5122.5	5104.9	5069.5	5013.0	4910.4	4744.3	4556.9	4468.5
17.5°	4716.0	4744.3	4737.2	4680.6	4659.4	4560.4	4482.7	4337.7	4259.9
20°	4178.6	4267.0	4267.0	4224.6	4217.5	4150.4	4161.0	4083.2	4026.6
22.5°	3637.7	3715.5	3740.3	3722.6	3736.7	3704.9	3803.9	3782.7	3754.4
25°	3061.5	3139.3	3188.8	3181.7	3217.1	3217.1	3390.3	3432.7	3418.6
27.5°	2520.6	2594.9	2651.4	2665.6	2644.4	2683.2	2920.1	3004.9	3004.9
30°	2057.5	2117.6	2170.6	2170.6	2142.3	2170.6	2421.6	2520.6	2513.5
32.5°	1534.3	1601.5	1651.0	1643.9	1619.1	1658.0	1923.2	2022.2	1997.4
35°	1050.0	1095.9	1134.8	1120.7	1099.5	1163.1	1453.0	1576.7	1573.2
37.5°	710.6	753.0	777.8	767.1	760.1	834.3	1099.5	1237.3	1230.3
40°	473.7	502.0	519.7	516.1	523.2	586.8	827.2	954.5	954.5
42.5°	300.5	318.2	335.8	335.8	353.5	420.7	629.3	738.9	738.9
45°	155.6	166.2	183.8	194.4	212.1	282.8	473.7	565.6	572.7
47.5°	74.2	77.8	84.8	88.4	102.5	176.8	364.1	463.1	484.3
50°	53.0	56.6	56.6	56.6	67.2	134.3	307.6	399.5	417.2
52.5°	42.4	42.4	42.4	46.0	53.0	113.1	265.1	346.5	360.6
55°	35.4	35.4	35.4	35.4	42.4	91.9	226.3	297.0	307.6
57.5°	28.3	28.3	28.3	28.3	35.4	74.2	187.4	236.9	240.4
60°	24.7	24.7	24.7	24.7	28.3	63.6	152.0	194.4	194.4
62.5°	21.2	21.2	21.2	21.2	24.7	53.0	127.3	159.1	155.6
65°	17.7	17.7	17.7	17.7	21.2	42.4	102.5	127.3	127.3
67.5°	14.1	14.1	14.1	14.1	17.7	35.4	81.3	102.5	102.5
70°	10.6	10.6	10.6	10.6	14.1	28.3	67.2	81.3	81.3
72.5°	10.6	10.6	10.6	10.6	10.6	21.2	49.5	63.6	60.1
75°	7.1	7.1	7.1	7.1	10.6	17.7	35.4	46.0	46.0
77.5°	7.1	7.1	7.1	7.1	7.1	14.1	28.3	31.8	31.8
80°	3.5	3.5	3.5	3.5	7.1	10.6	17.7	21.2	21.2
82.5°	0.0	3.5	0.0	3.5	3.5	7.1	14.1	14.1	14.1
85°	0.0	0.0	0.0	0.0	3.5	3.5	7.1	10.6	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	3.5
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)