

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: P859362

Luminaire Tested: **LD4C65D010 EU4659035 4LBMDSWLI**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P859362  
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 EU4659035 4LBMDSWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

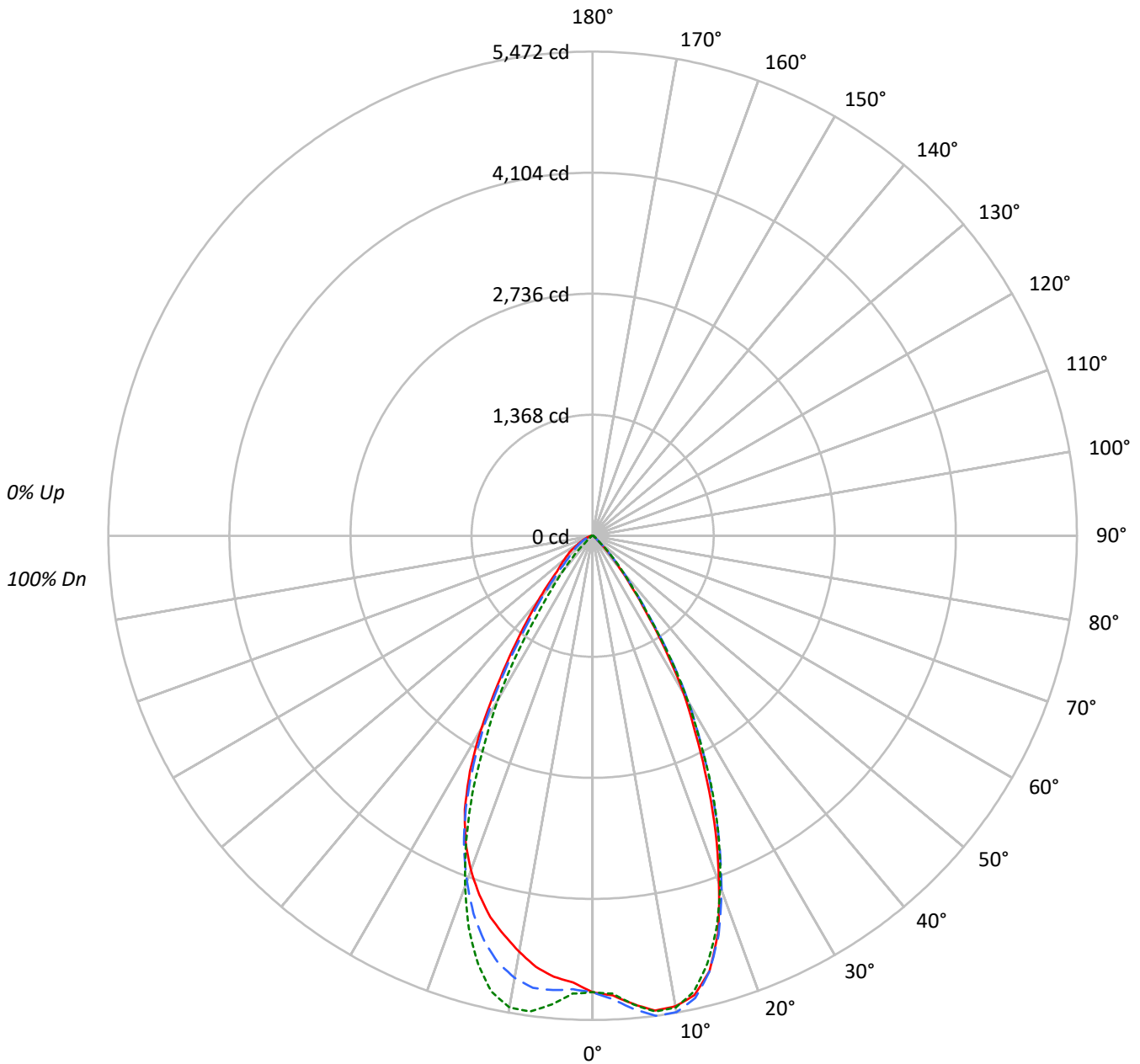
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4586.0 lumens  
Efficiency: N/A  
Efficacy: 63.3 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<sub>in</sub>): 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°	633703	633703	633703
5°	655288	655719	616971
10°	673431	675190	595475
15°	647981	636750	567599
20°	545596	550668	525750
25°	414456	435521	462794
30°	291492	303507	356109
35°	157265	164674	235628
40°	75873	83795	152884
45°	26982	36798	99380
50°	10130	12825	79623
55°	7561	9082	65799
60°	6069	6929	47716
65°	5145	6163	36947
70°	3808	5065	29167
75°	3370	5031	21787
80°	2476	5023	14999
85°	0	4934	10008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.2	11.0
10°-20°	1354.9	29.5
20°-30°	1469.7	32.0
30°-40°	815.4	17.8
40°-50°	259.7	5.7
50°-60°	104.7	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°	3326.8	72.5
0°-40°	4142.2	90.3
0°-60°	4506.7	98.3
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5158	5158	5158	5158	5158	
5°	5314	5370	5317	5155	5003	511
15°	5095	5098	5006	4738	4463	1393
25°	3058	3185	3213	3386	3414	1397
35°	1049	1133	1098	1451	1571	696
45°	155	184	212	473	572	149
55°	35	35	42	226	307	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°	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2	5158.2
2.5°	5200.6	5246.5	5243.0	5207.6	5179.4	5168.8	5130.0	5084.1	5052.3
5°	5313.6	5370.1	5370.1	5341.8	5317.1	5257.1	5154.7	5055.8	5002.9
7.5°	5412.4	5468.9	5472.4	5451.3	5423.0	5324.2	5154.7	4995.8	4914.6
10°	5398.3	5440.7	5465.4	5444.2	5412.4	5281.8	5073.5	4861.6	4773.4
12.5°	5317.1	5355.9	5352.4	5320.6	5278.3	5144.1	4939.3	4720.4	4621.6
15°	5094.7	5115.9	5098.2	5062.9	5006.4	4904.0	4738.1	4551.0	4462.7
17.5°	4709.8	4738.1	4731.0	4674.5	4653.3	4554.5	4476.8	4332.1	4254.4
20°	4173.2	4261.4	4261.4	4219.1	4212.0	4144.9	4155.5	4077.9	4021.4
22.5°	3633.0	3710.7	3735.4	3717.7	3731.9	3700.1	3798.9	3777.8	3749.5
25°	3057.5	3135.2	3184.6	3177.5	3212.9	3212.9	3385.9	3428.2	3414.1
27.5°	2517.3	2591.5	2648.0	2662.1	2640.9	2679.7	2916.3	3001.0	3001.0
30°	2054.8	2114.8	2167.8	2167.8	2139.5	2167.8	2418.5	2517.3	2510.3
32.5°	1532.3	1599.4	1648.8	1641.7	1617.0	1655.9	1920.7	2019.5	1994.8
35°	1048.6	1094.5	1133.3	1119.2	1098.0	1161.6	1451.1	1574.7	1571.1
37.5°	709.7	752.0	776.7	766.1	759.1	833.2	1098.0	1235.7	1228.7
40°	473.1	501.3	519.0	515.5	522.5	586.1	826.2	953.3	953.3
42.5°	300.1	317.8	335.4	335.4	353.1	420.1	628.4	737.9	737.9
45°	155.3	165.9	183.6	194.2	211.8	282.4	473.1	564.9	572.0
47.5°	74.1	77.7	84.7	88.3	102.4	176.5	363.7	462.5	483.7
50°	53.0	56.5	56.5	56.5	67.1	134.2	307.2	399.0	416.6
52.5°	42.4	42.4	42.4	45.9	53.0	113.0	264.8	346.0	360.1
55°	35.3	35.3	35.3	35.3	42.4	91.8	226.0	296.6	307.2
57.5°	28.2	28.2	28.2	28.2	35.3	74.1	187.1	236.6	240.1
60°	24.7	24.7	24.7	24.7	28.2	63.6	151.8	194.2	194.2
62.5°	21.2	21.2	21.2	21.2	24.7	53.0	127.1	158.9	155.3
65°	17.7	17.7	17.7	17.7	21.2	42.4	102.4	127.1	127.1
67.5°	14.1	14.1	14.1	14.1	17.7	35.3	81.2	102.4	102.4
70°	10.6	10.6	10.6	10.6	14.1	28.2	67.1	81.2	81.2
72.5°	10.6	10.6	10.6	10.6	10.6	21.2	49.4	63.6	60.0
75°	7.1	7.1	7.1	7.1	10.6	17.7	35.3	45.9	45.9
77.5°	7.1	7.1	7.1	7.1	7.1	14.1	28.2	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)