

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: P858141

Luminaire Tested: **LD4C45D010 EU4459035 4LBMDSWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P858141  
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: LD4C45D010 EU4459035 4LBMDSWLI  
Description: 4 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

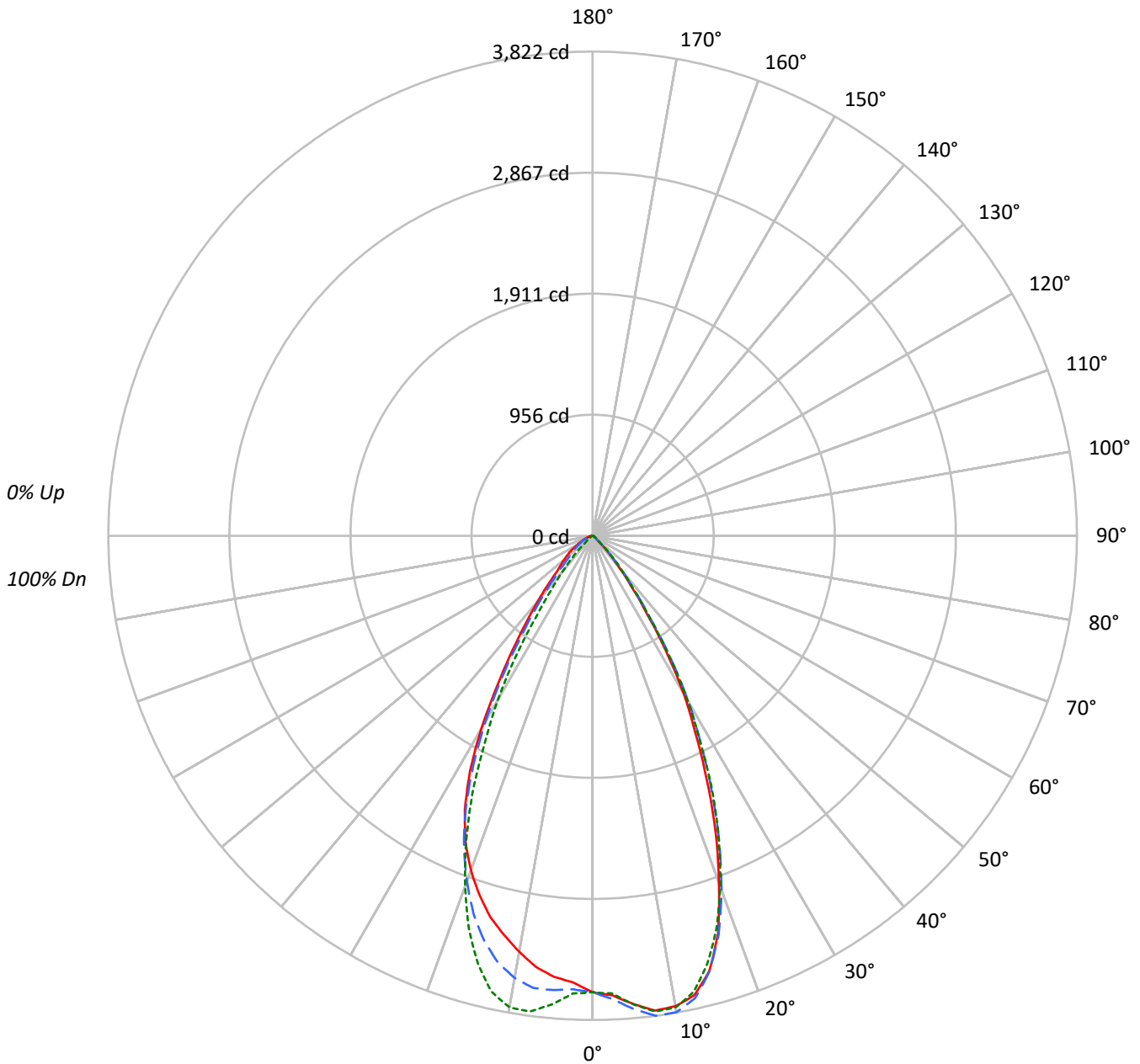
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3203.0 lumens  
Efficiency: N/A  
Efficacy: 64.6 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): 49.6  
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

TEST NUMBER: P858141

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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			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°	442604	442604	442604
5°	457675	457971	430914
10°	470340	471575	415900
15°	452570	444723	396430
20°	381062	384605	367191
25°	289475	304183	323228
30°	203582	211980	248707
35°	109843	115017	164569
40°	52988	58536	106777
45°	18851	25714	69410
50°	7072	8964	55618
55°	5290	6340	45943
60°	4251	4840	33318
65°	3576	4302	25814
70°	2658	3556	20367
75°	2326	3513	15237
80°	1769	3467	10471
85°	0	3524	6907



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.8	11.0
10°-20°	946.3	29.5
20°-30°	1026.5	32.0
30°-40°	569.5	17.8
40°-50°	181.4	5.7
50°-60°	73.1	2.3
60°-70°	37.0	1.2
70°-80°	15.3	0.5
80°-90°	3.2	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°	2323.5	72.5
0°-40°	2893.1	90.3
0°-60°	3147.6	98.3
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3603	3603	3603	3603	3603	
5°	3711	3751	3714	3600	3494	357
15°	3558	3561	3497	3309	3117	973
25°	2136	2224	2244	2365	2384	975
35°	732	792	767	1014	1097	486
45°	108	128	148	330	400	104
55°	25	25	30	158	214	23
65°	12	12	15	72	89	12
75°	5	5	7	25	32	6
85°	0	0	2	5	5	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°	3602.7	3602.7	3602.7	3602.7	3602.7	3602.7	3602.7	3602.7	3602.7
2.5°	3632.2	3664.3	3661.8	3637.2	3617.4	3610.1	3582.9	3550.9	3528.7
5°	3711.2	3750.6	3750.6	3730.9	3713.6	3671.7	3600.2	3531.1	3494.2
7.5°	3780.2	3819.7	3822.1	3807.3	3787.6	3718.6	3600.2	3489.2	3432.5
10°	3770.3	3799.9	3817.2	3802.4	3780.2	3689.0	3543.5	3395.5	3333.9
12.5°	3713.6	3740.7	3738.3	3716.1	3686.5	3592.8	3449.8	3296.9	3227.8
15°	3558.3	3573.1	3560.7	3536.1	3496.6	3425.1	3309.2	3178.5	3116.9
17.5°	3289.5	3309.2	3304.3	3264.8	3250.0	3181.0	3126.7	3025.6	2971.4
20°	2914.7	2976.3	2976.3	2946.7	2941.8	2894.9	2902.3	2848.1	2808.6
22.5°	2537.4	2591.6	2608.9	2596.6	2606.4	2584.2	2653.3	2638.5	2618.8
25°	2135.5	2189.7	2224.2	2219.3	2244.0	2244.0	2364.8	2394.4	2384.5
27.5°	1758.2	1810.0	1849.4	1859.3	1844.5	1871.6	2036.8	2096.0	2096.0
30°	1435.1	1477.1	1514.1	1514.1	1494.3	1514.1	1689.1	1758.2	1753.2
32.5°	1070.2	1117.0	1151.6	1146.6	1129.4	1156.5	1341.4	1410.5	1393.2
35°	732.4	764.4	791.5	781.7	766.9	811.3	1013.5	1099.8	1097.3
37.5°	495.6	525.2	542.5	535.1	530.2	581.9	766.9	863.1	858.1
40°	330.4	350.2	362.5	360.0	365.0	409.3	577.0	665.8	665.8
42.5°	209.6	221.9	234.3	234.3	246.6	293.4	438.9	515.4	515.4
45°	108.5	115.9	128.2	135.6	148.0	197.3	330.4	394.5	399.5
47.5°	51.8	54.2	59.2	61.6	71.5	123.3	254.0	323.0	337.8
50°	37.0	39.5	39.5	39.5	46.9	93.7	214.5	278.6	291.0
52.5°	29.6	29.6	29.6	32.1	37.0	78.9	184.9	241.7	251.5
55°	24.7	24.7	24.7	24.7	29.6	64.1	157.8	207.1	214.5
57.5°	19.7	19.7	19.7	19.7	24.7	51.8	130.7	165.2	167.7
60°	17.3	17.3	17.3	17.3	19.7	44.4	106.0	135.6	135.6
62.5°	14.8	14.8	14.8	14.8	17.3	37.0	88.8	111.0	108.5
65°	12.3	12.3	12.3	12.3	14.8	29.6	71.5	88.8	88.8
67.5°	9.9	9.9	9.9	9.9	12.3	24.7	56.7	71.5	71.5
70°	7.4	7.4	7.4	7.4	9.9	19.7	46.9	56.7	56.7
72.5°	7.4	7.4	7.4	7.4	7.4	14.8	34.5	44.4	41.9
75°	4.9	4.9	4.9	4.9	7.4	12.3	24.7	32.1	32.1
77.5°	4.9	4.9	4.9	4.9	4.9	9.9	19.7	22.2	22.2
80°	2.5	2.5	2.5	2.5	4.9	7.4	12.3	14.8	14.8
82.5°	0.0	2.5	0.0	2.5	2.5	4.9	9.9	9.9	9.9
85°	0.0	0.0	0.0	0.0	2.5	2.5	4.9	7.4	4.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5
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)