

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: P858969

Luminaire Tested: **LD4C50D010 EU4509030 4LBMDSWH**

Issue Date: 4/12/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P858969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EU4509030 4LBMDSWH  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

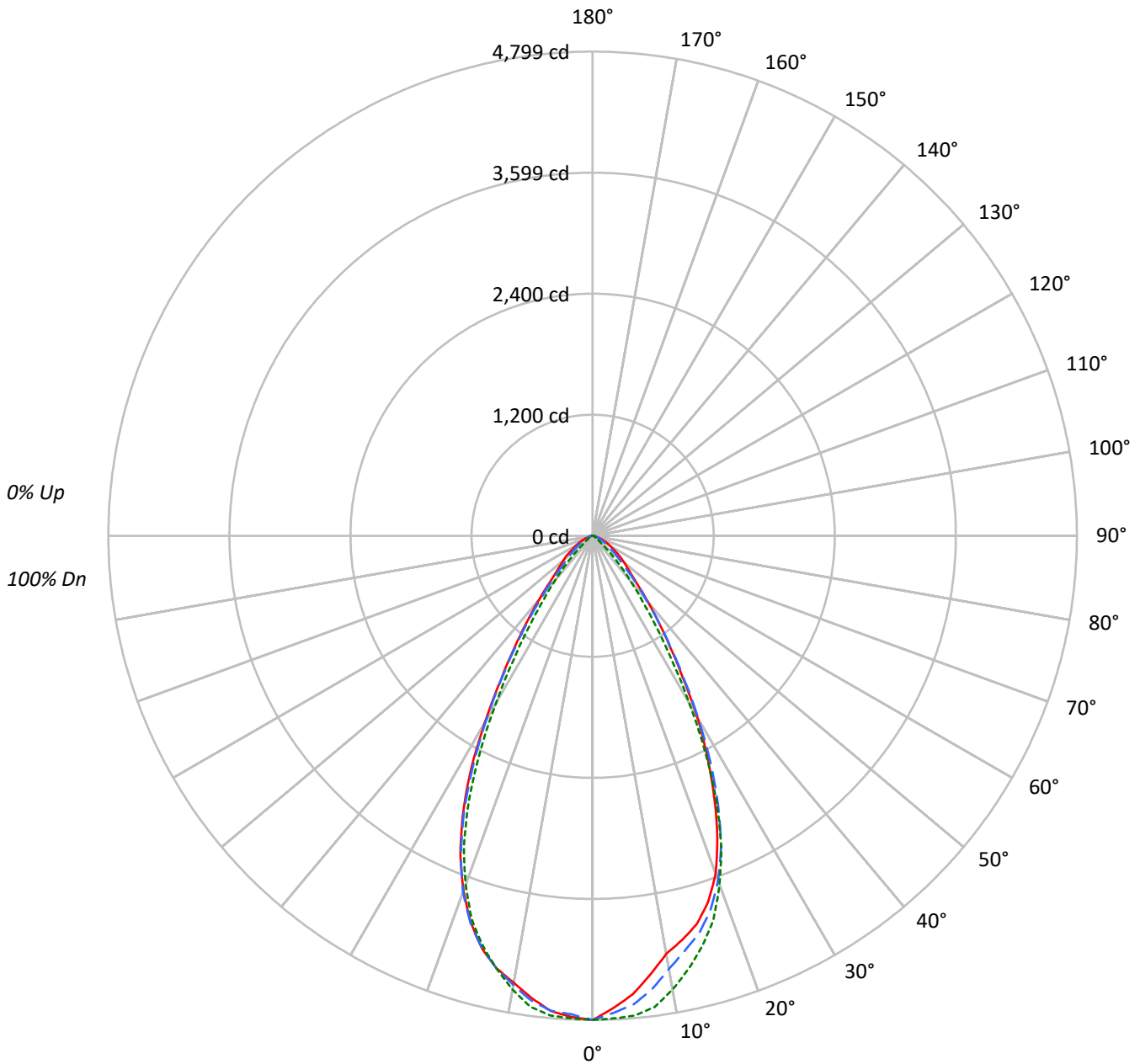
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4369.0 lumens  
Efficiency: N/A  
Efficacy: 74.8 lumens/watt  
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
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					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	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	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92												
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85												
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78												
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72												
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67												
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62												
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58												
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55												
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51												
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	589611	589611	589611
5°	562611	588657	583181
10°	524730	569578	561257
15°	506714	534988	538765
20°	466107	480645	489365
25°	386315	393350	412436
30°	293889	271802	302301
35°	198989	162859	201208
40°	135516	93305	131346
45°	94011	46997	88851
50°	76489	19132	71538
55°	61922	11909	56353
60°	49166	9116	44620
65°	38779	7529	34477
70°	29275	6645	26617
75°	21123	5269	19367
80°	15706	5235	13088
85°	10431	5215	10431



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	441.3	10.1
10°-20°	1159.4	26.5
20°-30°	1330.2	30.4
30°-40°	808.1	18.5
40°-50°	346.3	7.9
50°-60°	166.1	3.8
60°-70°	80.8	1.8
70°-80°	30.0	0.7
80°-90°	6.9	0.2
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°	2930.8	67.1
0°-40°	3738.9	85.6
0°-60°	4251.3	97.3
0°-90°	4369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4799	4799	4799	4799	4799	
5°	4562	4662	4773	4725	4729	424
15°	3984	4077	4206	4232	4236	1109
25°	2850	2943	2902	3013	3043	1293
35°	1327	1345	1086	1312	1342	850
45°	541	482	270	434	511	440
55°	289	215	56	193	263	261
65°	133	89	26	82	119	135
75°	44	30	11	26	41	49
85°	7	7	4	4	7	10
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°	4799.3	4799.3	4799.3	4799.3	4799.3	4799.3	4799.3	4799.3	4799.3
2.5°	4684.4	4736.3	4732.6	4777.0	4788.2	4777.0	4747.4	4777.0	4773.3
5°	4562.1	4621.4	4662.2	4736.3	4773.3	4765.9	4725.2	4732.6	4728.9
7.5°	4384.2	4458.3	4528.7	4639.9	4710.3	4706.6	4647.3	4636.2	4621.4
10°	4206.3	4276.7	4358.3	4473.2	4565.8	4580.6	4521.3	4506.5	4499.1
12.5°	4102.6	4158.1	4213.7	4313.8	4395.3	4425.0	4391.6	4395.3	4391.6
15°	3984.0	4039.6	4076.6	4150.7	4206.3	4247.1	4232.3	4254.5	4236.0
17.5°	3806.1	3872.8	3887.6	3943.2	3984.0	4009.9	4024.7	4047.0	4017.3
20°	3565.2	3617.1	3635.6	3657.8	3676.4	3709.7	3754.2	3776.4	3743.1
22.5°	3227.9	3328.0	3324.3	3313.2	3331.7	3342.8	3413.2	3450.3	3424.4
25°	2849.9	2953.7	2942.6	2898.1	2901.8	2924.0	3013.0	3061.2	3042.6
27.5°	2453.4	2549.7	2523.8	2438.6	2416.3	2449.7	2564.6	2620.1	2609.0
30°	2071.7	2134.7	2093.9	1941.9	1916.0	1956.8	2105.0	2160.6	2131.0
32.5°	1660.3	1708.5	1689.9	1504.6	1460.2	1500.9	1675.1	1727.0	1693.6
35°	1326.8	1371.2	1345.3	1126.6	1085.9	1130.3	1311.9	1371.2	1341.6
37.5°	1063.6	1097.0	1063.6	830.1	793.1	837.6	1011.7	1089.6	1052.5
40°	845.0	870.9	826.4	611.5	581.8	604.1	767.1	845.0	819.0
42.5°	667.1	685.6	637.4	448.4	415.1	444.7	578.1	648.6	633.7
45°	541.1	541.1	481.8	311.3	270.5	300.2	433.6	507.7	511.4
47.5°	463.3	452.1	378.0	207.5	155.7	196.4	344.7	422.5	433.6
50°	400.2	385.4	311.3	151.9	100.1	140.8	285.4	363.2	374.3
52.5°	344.7	333.5	259.4	118.6	70.4	107.5	240.9	315.0	326.1
55°	289.1	281.7	214.9	92.7	55.6	81.5	192.7	255.7	263.1
57.5°	237.2	226.1	174.2	77.8	44.5	66.7	159.4	211.2	218.7
60°	200.1	189.0	140.8	63.0	37.1	51.9	129.7	174.2	181.6
62.5°	166.8	155.7	114.9	51.9	29.6	44.5	103.8	140.8	148.2
65°	133.4	126.0	88.9	40.8	25.9	33.4	81.5	111.2	118.6
67.5°	107.5	100.1	70.4	33.4	22.2	25.9	63.0	88.9	96.4
70°	81.5	74.1	51.9	25.9	18.5	22.2	48.2	66.7	74.1
72.5°	59.3	55.6	40.8	22.2	14.8	18.5	33.4	48.2	55.6
75°	44.5	40.8	29.6	14.8	11.1	14.8	25.9	37.1	40.8
77.5°	29.6	29.6	22.2	11.1	11.1	11.1	18.5	25.9	25.9
80°	22.2	18.5	14.8	7.4	7.4	7.4	11.1	18.5	18.5
82.5°	14.8	11.1	11.1	7.4	7.4	7.4	7.4	11.1	11.1
85°	7.4	7.4	7.4	3.7	3.7	3.7	3.7	7.4	7.4
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)