

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: P859492

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDSWGPH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859492  
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: LD4C70D010 EU4709040 4LBMDSWGPH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH GPH FINISH  
Light Source: -  
Ballast/Driver: -

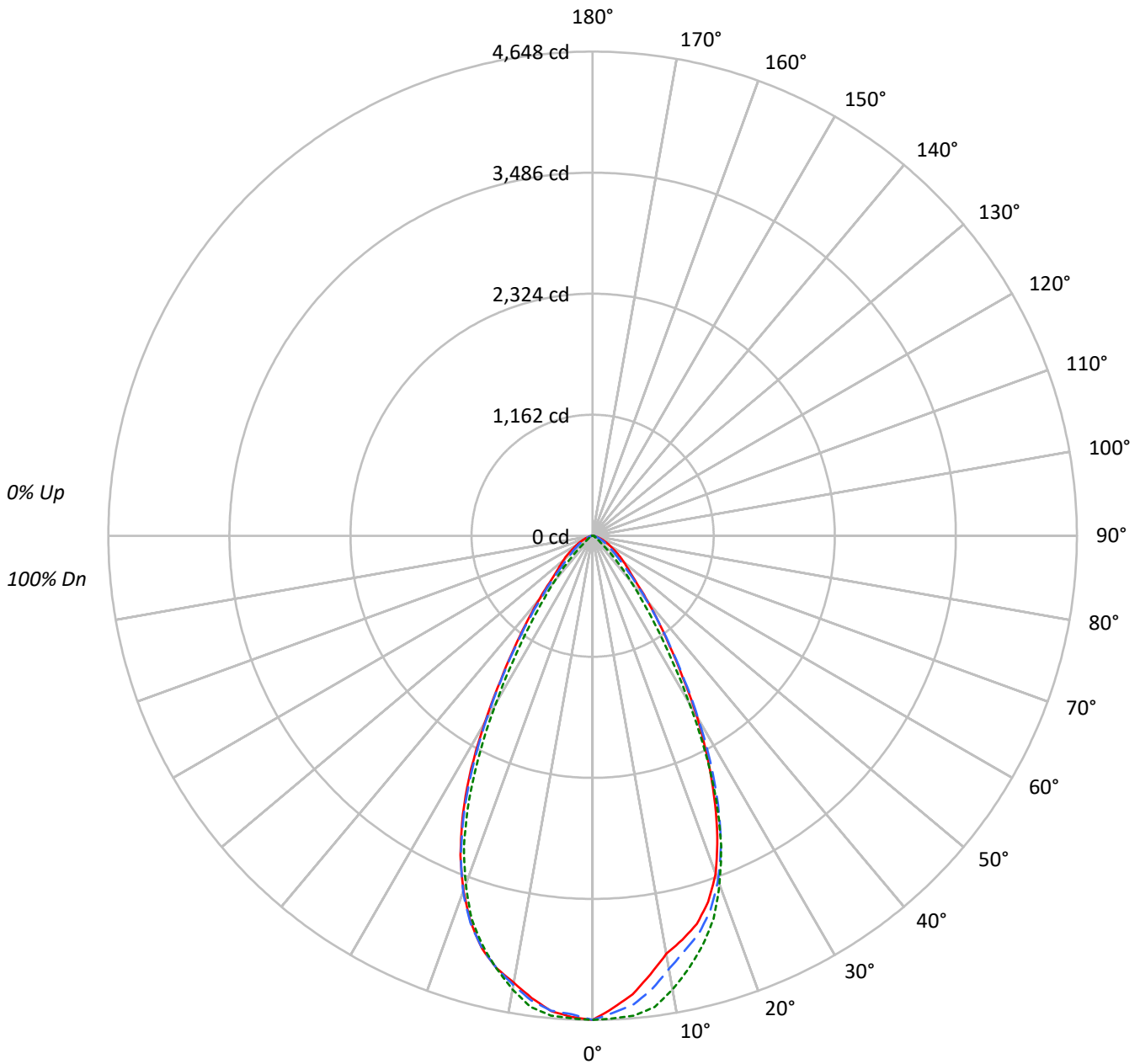
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4231.0 lumens  
Efficiency: N/A  
Efficacy: 54.2 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): 78  
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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85				
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78				78				
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72				72				
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67				67				
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				58				
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55				55				
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51				51				
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48				48				

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

	0°	90°	180°
0°	570986	570986	570986
5°	544840	570072	564757
10°	508164	551589	543530
15°	490701	518097	521748
20°	451386	465453	473899
25°	374115	380920	399409
30°	284597	263219	292740
35°	192690	157715	194849
40°	131234	90371	127209
45°	91040	45520	86054
50°	74080	18520	69283
55°	59951	11523	54575
60°	47618	8821	43220
65°	37558	7296	33372
70°	28377	6430	25791
75°	20458	5126	18749
80°	15211	5094	12664
85°	10149	5075	10149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.3	10.1
10°-20°	1122.7	26.5
20°-30°	1288.2	30.4
30°-40°	782.5	18.5
40°-50°	335.4	7.9
50°-60°	160.9	3.8
60°-70°	78.2	1.8
70°-80°	29.0	0.7
80°-90°	6.7	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°	2838.2	67.1
0°-40°	3620.8	85.6
0°-60°	4117.1	97.3
0°-90°	4231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4648	4648	4648	4648	4648	
5°	4418	4515	4623	4576	4580	410
15°	3858	3948	4074	4099	4102	1074
25°	2760	2850	2810	2918	2946	1252
35°	1285	1303	1052	1270	1299	823
45°	524	467	262	420	495	426
55°	280	208	54	187	255	253
65°	129	86	25	79	115	131
75°	43	29	11	25	40	47
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°	4647.7	4647.7	4647.7	4647.7	4647.7	4647.7	4647.7	4647.7	4647.7
2.5°	4536.4	4586.7	4583.1	4626.2	4636.9	4626.2	4597.4	4626.2	4622.6
5°	4418.0	4475.4	4514.9	4586.7	4622.6	4615.4	4575.9	4583.1	4579.5
7.5°	4245.7	4317.5	4385.7	4493.4	4561.6	4558.0	4500.5	4489.8	4475.4
10°	4073.5	4141.6	4220.6	4331.9	4421.6	4435.9	4378.5	4364.2	4357.0
12.5°	3973.0	4026.8	4080.6	4177.5	4256.5	4285.2	4252.9	4256.5	4252.9
15°	3858.1	3912.0	3947.8	4019.6	4073.5	4112.9	4098.6	4120.1	4102.2
17.5°	3685.9	3750.5	3764.8	3818.6	3858.1	3883.2	3897.6	3919.1	3890.4
20°	3452.6	3502.8	3520.8	3542.3	3560.2	3592.5	3635.6	3657.1	3624.8
22.5°	3126.0	3222.9	3219.3	3208.5	3226.5	3237.2	3305.4	3341.3	3316.2
25°	2759.9	2860.4	2849.6	2806.6	2810.1	2831.7	2917.8	2964.5	2946.5
27.5°	2375.9	2469.2	2444.1	2361.5	2340.0	2372.3	2483.6	2537.4	2526.6
30°	2006.2	2067.2	2027.8	1880.6	1855.5	1895.0	2038.5	2092.4	2063.6
32.5°	1607.9	1654.5	1636.6	1457.1	1414.0	1453.5	1622.2	1672.5	1640.2
35°	1284.8	1327.9	1302.8	1091.0	1051.6	1094.6	1270.5	1327.9	1299.2
37.5°	1030.0	1062.3	1030.0	803.9	768.0	811.1	979.8	1055.2	1019.3
40°	818.3	843.4	800.3	592.2	563.5	585.0	742.9	818.3	793.2
42.5°	646.0	664.0	617.3	434.3	402.0	430.7	559.9	628.1	613.7
45°	524.0	524.0	466.6	301.5	262.0	290.7	419.9	491.7	495.3
47.5°	448.6	437.9	366.1	201.0	150.7	190.2	333.8	409.1	419.9
50°	387.6	373.3	301.5	147.1	96.9	136.4	276.3	351.7	362.5
52.5°	333.8	323.0	251.2	114.8	68.2	104.1	233.3	305.1	315.8
55°	279.9	272.8	208.2	89.7	53.8	79.0	186.6	247.6	254.8
57.5°	229.7	218.9	168.7	75.4	43.1	64.6	154.3	204.6	211.7
60°	193.8	183.0	136.4	61.0	35.9	50.2	125.6	168.7	175.9
62.5°	161.5	150.7	111.3	50.2	28.7	43.1	100.5	136.4	143.6
65°	129.2	122.0	86.1	39.5	25.1	32.3	79.0	107.7	114.8
67.5°	104.1	96.9	68.2	32.3	21.5	25.1	61.0	86.1	93.3
70°	79.0	71.8	50.2	25.1	17.9	21.5	46.7	64.6	71.8
72.5°	57.4	53.8	39.5	21.5	14.4	17.9	32.3	46.7	53.8
75°	43.1	39.5	28.7	14.4	10.8	14.4	25.1	35.9	39.5
77.5°	28.7	28.7	21.5	10.8	10.8	10.8	17.9	25.1	25.1
80°	21.5	17.9	14.4	7.2	7.2	7.2	10.8	17.9	17.9
82.5°	14.4	10.8	10.8	7.2	7.2	7.2	7.2	10.8	10.8
85°	7.2	7.2	7.2	3.6	3.6	3.6	3.6	7.2	7.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)