

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: P859495

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDSWMW**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859495  
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 4LBMDSWMW  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH MW FINISH  
Light Source: -  
Ballast/Driver: -

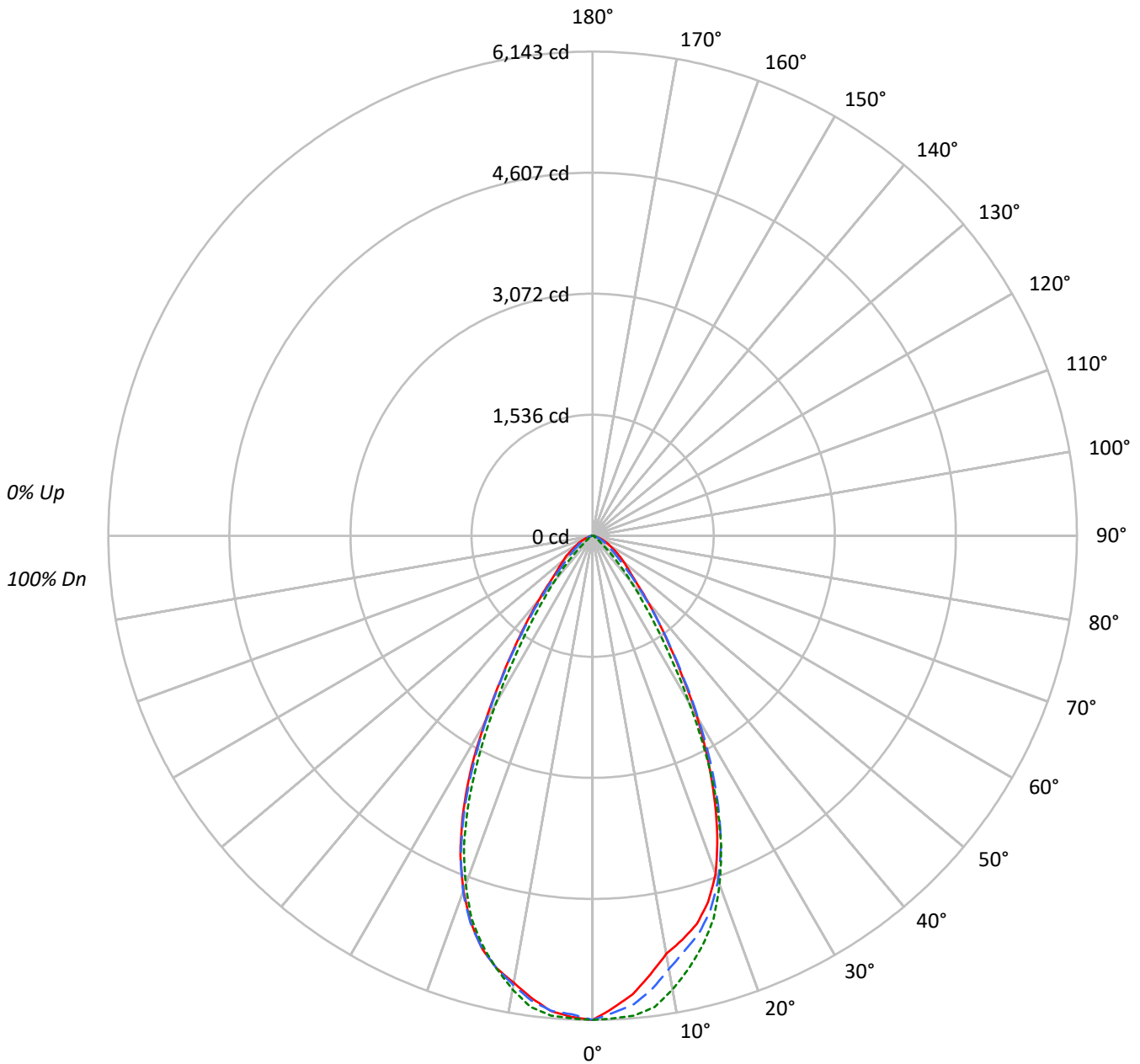
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5592.0 lumens  
Efficiency: N/A  
Efficacy: 71.7 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	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°	754652	754652	754652
5°	720106	753440	746423
10°	671622	729019	718365
15°	648553	684751	689571
20°	596583	615187	626352
25°	494460	503460	527887
30°	376153	347881	386920
35°	254675	208437	257524
40°	173444	119430	168120
45°	120316	60167	113731
50°	97914	24483	91569
55°	79250	15250	72139
60°	62926	11647	57102
65°	49651	9651	44128
70°	37500	8513	34088
75°	27009	6740	24778
80°	20163	6721	16767
85°	13391	6625	13391



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	564.8	10.1
10°-20°	1483.9	26.5
20°-30°	1702.5	30.4
30°-40°	1034.3	18.5
40°-50°	443.3	7.9
50°-60°	212.6	3.8
60°-70°	103.4	1.8
70°-80°	38.4	0.7
80°-90°	8.8	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°	3751.2	67.1
0°-40°	4785.5	85.6
0°-60°	5441.4	97.3
0°-90°	5592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6143	6143	6143	6143	6143	
5°	5839	5967	6110	6048	6053	543
15°	5099	5218	5384	5417	5422	1420
25°	3648	3766	3714	3856	3894	1655
35°	1698	1722	1390	1679	1717	1088
45°	692	617	346	555	655	563
55°	370	275	71	247	337	334
65°	171	114	33	104	152	173
75°	57	38	14	33	52	62
85°	10	10	5	5	10	13
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°	6142.7	6142.7	6142.7	6142.7	6142.7	6142.7	6142.7	6142.7	6142.7
2.5°	5995.7	6062.1	6057.3	6114.3	6128.5	6114.3	6076.3	6114.3	6109.5
5°	5839.2	5915.0	5967.2	6062.1	6109.5	6100.0	6047.9	6057.3	6052.6
7.5°	5611.5	5706.3	5796.5	5938.8	6028.9	6024.1	5948.3	5934.0	5915.0
10°	5383.8	5473.9	5578.3	5725.3	5843.9	5862.9	5787.0	5768.0	5758.5
12.5°	5251.0	5322.1	5393.3	5521.3	5625.7	5663.6	5621.0	5625.7	5621.0
15°	5099.2	5170.3	5217.8	5312.6	5383.8	5436.0	5417.0	5445.4	5421.7
17.5°	4871.5	4956.9	4975.8	5047.0	5099.2	5132.4	5151.4	5179.8	5141.9
20°	4563.2	4629.6	4653.3	4681.8	4705.5	4748.2	4805.1	4833.5	4790.9
22.5°	4131.5	4259.6	4254.8	4240.6	4264.3	4278.6	4368.7	4416.1	4382.9
25°	3647.7	3780.5	3766.3	3709.4	3714.1	3742.6	3856.4	3918.1	3894.3
27.5°	3140.1	3263.5	3230.3	3121.2	3092.7	3135.4	3282.4	3353.6	3339.4
30°	2651.6	2732.2	2680.0	2485.6	2452.3	2504.5	2694.3	2765.4	2727.5
32.5°	2125.1	2186.7	2163.0	1925.8	1868.9	1921.1	2144.0	2210.4	2167.7
35°	1698.1	1755.1	1721.9	1442.0	1389.8	1446.7	1679.2	1755.1	1717.1
37.5°	1361.4	1404.1	1361.4	1062.5	1015.1	1072.0	1295.0	1394.6	1347.1
40°	1081.5	1114.7	1057.8	782.7	744.7	773.2	981.9	1081.5	1048.3
42.5°	853.8	877.5	815.9	574.0	531.3	569.2	740.0	830.1	811.1
45°	692.5	692.5	616.6	398.4	346.3	384.2	555.0	649.8	654.6
47.5°	592.9	578.7	483.8	265.6	199.2	251.4	441.1	540.8	555.0
50°	512.3	493.3	398.4	194.5	128.1	180.3	365.2	464.9	479.1
52.5°	441.1	426.9	332.0	151.8	90.1	137.6	308.3	403.2	417.4
55°	370.0	360.5	275.1	118.6	71.2	104.4	246.7	327.3	336.8
57.5°	303.6	289.3	222.9	99.6	56.9	85.4	204.0	270.4	279.9
60°	256.1	241.9	180.3	80.6	47.4	66.4	166.0	222.9	232.4
62.5°	213.5	199.2	147.0	66.4	37.9	56.9	132.8	180.3	189.7
65°	170.8	161.3	113.8	52.2	33.2	42.7	104.4	142.3	151.8
67.5°	137.6	128.1	90.1	42.7	28.5	33.2	80.6	113.8	123.3
70°	104.4	94.9	66.4	33.2	23.7	28.5	61.7	85.4	94.9
72.5°	75.9	71.2	52.2	28.5	19.0	23.7	42.7	61.7	71.2
75°	56.9	52.2	37.9	19.0	14.2	19.0	33.2	47.4	52.2
77.5°	37.9	37.9	28.5	14.2	14.2	14.2	23.7	33.2	33.2
80°	28.5	23.7	19.0	9.5	9.5	9.5	14.2	23.7	23.7
82.5°	19.0	14.2	14.2	9.5	9.5	9.5	9.5	14.2	14.2
85°	9.5	9.5	9.5	4.7	4.7	4.7	4.7	9.5	9.5
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)