

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: P859518

Luminaire Tested: **LD4C70D010 EU4709050 4LBMDSWWMH**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P859518  
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 EU4709050 4LBMDSWWMH  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBMDSW TRIM WITH WMH FINISH  
Light Source: -  
Ballast/Driver: -

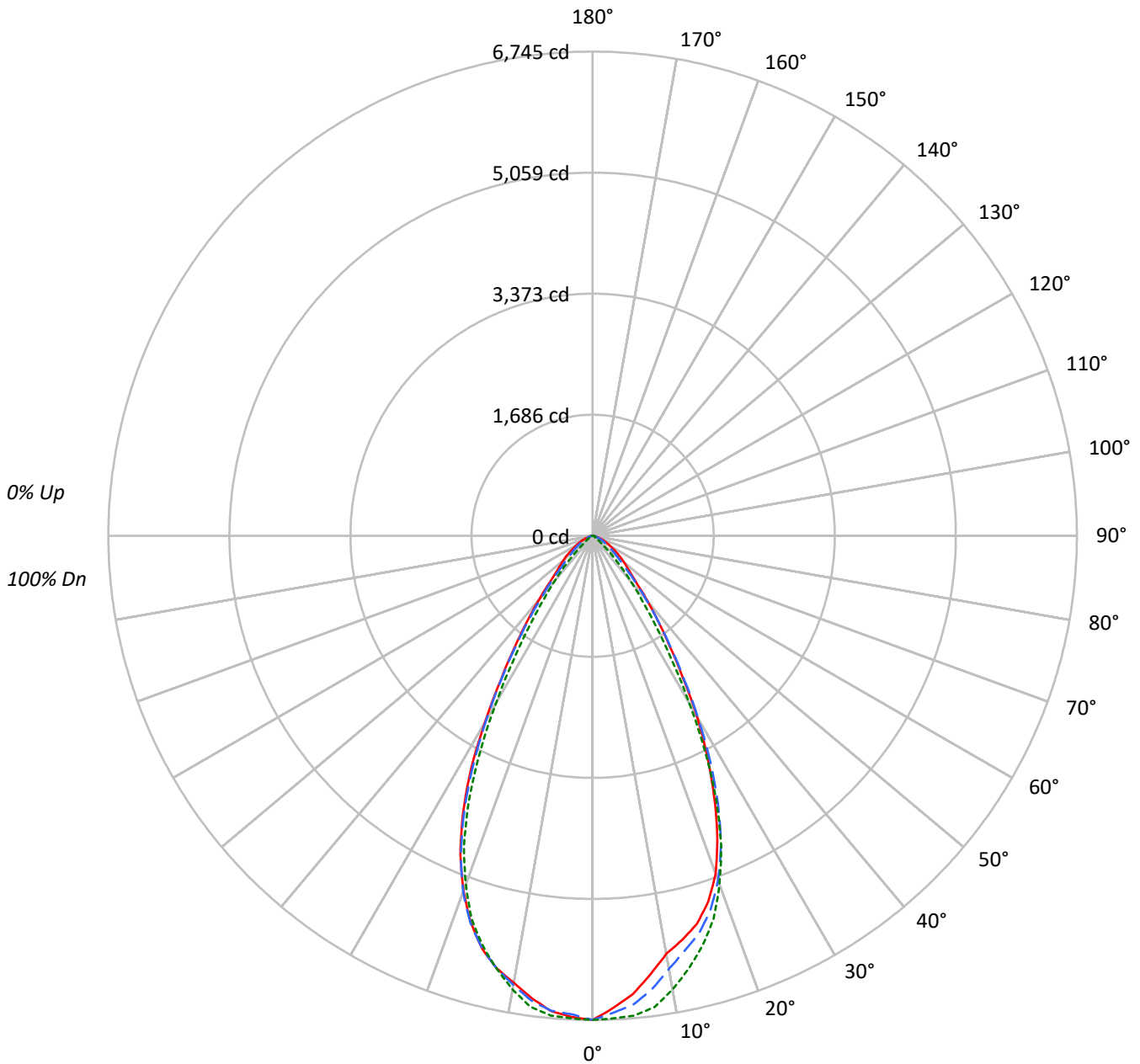
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6140.0 lumens  
Efficiency: N/A  
Efficacy: 78.7 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 (Ain): 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				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°	828610	828610	828610
5°	790672	827274	819566
10°	737439	800462	788761
15°	712109	751855	757146
20°	655036	675471	687721
25°	542920	552802	579628
30°	413008	381984	424839
35°	279646	228864	282766
40°	190444	131138	184590
45°	132113	66056	124868
50°	107508	26872	100532
55°	87003	16728	79207
60°	69093	12801	62704
65°	54506	10610	48459
70°	41164	9339	37429
75°	29667	7405	27199
80°	22074	7358	18395
85°	14660	7330	14660



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.1	10.1
10°-20°	1629.3	26.5
20°-30°	1869.4	30.4
30°-40°	1135.6	18.5
40°-50°	486.7	7.9
50°-60°	233.5	3.8
60°-70°	113.5	1.8
70°-80°	42.1	0.7
80°-90°	9.7	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°	4118.8	67.1
0°-40°	5254.5	85.6
0°-60°	5974.6	97.3
0°-90°	6140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6140.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	6745	6745	6745	6745	6745	
5°	6411	6552	6708	6640	6646	596
15°	5599	5729	5911	5948	5953	1559
25°	4005	4135	4078	4234	4276	1817
35°	1865	1891	1526	1844	1885	1195
45°	760	677	380	609	719	618
55°	406	302	78	271	370	367
65°	188	125	36	115	167	190
75°	62	42	16	36	57	69
85°	10	10	5	5	10	14
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°	6744.7	6744.7	6744.7	6744.7	6744.7	6744.7	6744.7	6744.7	6744.7
2.5°	6583.2	6656.2	6651.0	6713.5	6729.1	6713.5	6671.8	6713.5	6708.2
5°	6411.4	6494.7	6552.0	6656.2	6708.2	6697.8	6640.5	6651.0	6645.7
7.5°	6161.4	6265.5	6364.5	6520.7	6619.7	6614.5	6531.2	6515.5	6494.7
10°	5911.4	6010.3	6124.9	6286.4	6416.6	6437.4	6354.1	6333.2	6322.8
12.5°	5765.5	5843.7	5921.8	6062.4	6177.0	6218.7	6171.8	6177.0	6171.8
15°	5598.9	5677.0	5729.1	5833.3	5911.4	5968.7	5947.8	5979.1	5953.0
17.5°	5348.9	5442.6	5463.5	5541.6	5598.9	5635.3	5656.2	5687.4	5645.8
20°	5010.3	5083.3	5109.3	5140.6	5166.6	5213.5	5276.0	5307.2	5260.3
22.5°	4536.4	4677.0	4671.8	4656.2	4682.2	4697.9	4796.8	4848.9	4812.4
25°	4005.2	4151.0	4135.4	4072.9	4078.1	4109.3	4234.3	4302.0	4276.0
27.5°	3447.9	3583.3	3546.8	3427.0	3395.8	3442.7	3604.1	3682.2	3666.6
30°	2911.4	3000.0	2942.7	2729.1	2692.7	2750.0	2958.3	3036.4	2994.8
32.5°	2333.3	2401.0	2375.0	2114.6	2052.1	2109.3	2354.1	2427.1	2380.2
35°	1864.6	1927.1	1890.6	1583.3	1526.0	1588.5	1843.7	1927.1	1885.4
37.5°	1494.8	1541.6	1494.8	1166.7	1114.6	1177.1	1421.9	1531.2	1479.1
40°	1187.5	1223.9	1161.4	859.4	817.7	848.9	1078.1	1187.5	1151.0
42.5°	937.5	963.5	895.8	630.2	583.3	625.0	812.5	911.4	890.6
45°	760.4	760.4	677.1	437.5	380.2	421.9	609.4	713.5	718.7
47.5°	651.0	635.4	531.2	291.7	218.7	276.0	484.4	593.7	609.4
50°	562.5	541.7	437.5	213.5	140.6	197.9	401.0	510.4	526.0
52.5°	484.4	468.7	364.6	166.7	99.0	151.0	338.5	442.7	458.3
55°	406.2	395.8	302.1	130.2	78.1	114.6	270.8	359.4	369.8
57.5°	333.3	317.7	244.8	109.4	62.5	93.7	224.0	296.9	307.3
60°	281.2	265.6	197.9	88.5	52.1	72.9	182.3	244.8	255.2
62.5°	234.4	218.7	161.5	72.9	41.7	62.5	145.8	197.9	208.3
65°	187.5	177.1	125.0	57.3	36.5	46.9	114.6	156.2	166.7
67.5°	151.0	140.6	99.0	46.9	31.2	36.5	88.5	125.0	135.4
70°	114.6	104.2	72.9	36.5	26.0	31.2	67.7	93.7	104.2
72.5°	83.3	78.1	57.3	31.2	20.8	26.0	46.9	67.7	78.1
75°	62.5	57.3	41.7	20.8	15.6	20.8	36.5	52.1	57.3
77.5°	41.7	41.7	31.2	15.6	15.6	15.6	26.0	36.5	36.5
80°	31.2	26.0	20.8	10.4	10.4	10.4	15.6	26.0	26.0
82.5°	20.8	15.6	15.6	10.4	10.4	10.4	10.4	15.6	15.6
85°	10.4	10.4	10.4	5.2	5.2	5.2	5.2	10.4	10.4
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
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)