

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: P859497

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDSWWMH**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859497
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 4LBMDSWWMH
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH WMH FINISH
Light Source: -
Ballast/Driver: -

Summary

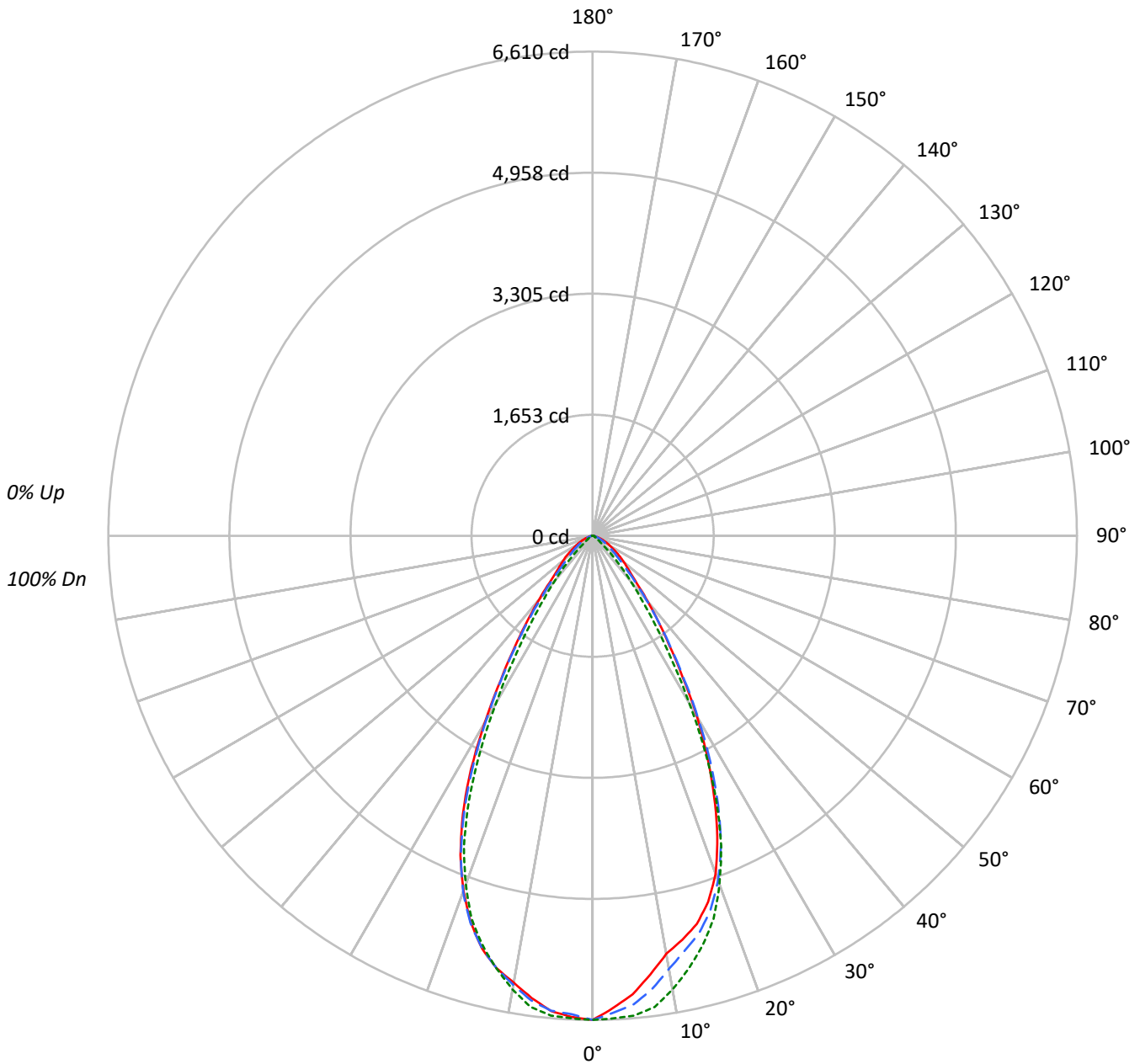
Lumens per Lamp: N/A
Luminaire Lumens: 6017.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (A_{in}): 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: P859497

CATALOG NUMBER: LD4C70D010 EU4709040 4LBMDSWWMH

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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	91	82	75	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	55	55	55	55
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	812012	812012	812012
5°	774825	810711	803152
10°	722669	784420	772968
15°	697838	736796	741985
20°	641923	661939	673954
25°	532035	541727	568011
30°	404738	374323	416328
35°	274037	224290	277096
40°	186627	128508	180902
45°	129472	64736	122366
50°	105349	26337	98525
55°	85268	16407	77622
60°	67717	12531	61451
65°	53401	10378	47471
70°	40338	9160	36674
75°	29050	7262	26629
80°	21649	7216	18041
85°	14378	7189	14378



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CATALOG NUMBER: LD4C70D010 EU4709040 4LBMSWWMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.7	10.1
10°-20°	1596.7	26.5
20°-30°	1831.9	30.4
30°-40°	1112.9	18.5
40°-50°	476.9	7.9
50°-60°	228.8	3.8
60°-70°	111.2	1.8
70°-80°	41.3	0.7
80°-90°	9.5	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°	4036.3	67.1
0°-40°	5149.2	85.6
0°-60°	5855.0	97.3
0°-90°	6017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6017.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6610	6610	6610	6610	6610	
5°	6283	6421	6574	6508	6513	584
15°	5487	5614	5793	5829	5834	1528
25°	3925	4052	3996	4150	4190	1780
35°	1827	1853	1496	1807	1848	1171
45°	745	664	373	597	704	605
55°	398	296	77	265	362	359
65°	184	122	36	112	163	186
75°	61	41	15	36	56	67
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°	6609.6	6609.6	6609.6	6609.6	6609.6	6609.6	6609.6	6609.6	6609.6
2.5°	6451.4	6522.8	6517.7	6579.0	6594.3	6579.0	6538.1	6579.0	6573.9
5°	6282.9	6364.6	6420.7	6522.8	6573.9	6563.7	6507.5	6517.7	6512.6
7.5°	6037.9	6140.0	6237.0	6390.1	6487.1	6482.0	6400.3	6385.0	6364.6
10°	5793.0	5889.9	6002.2	6160.4	6288.0	6308.5	6226.8	6206.4	6196.2
12.5°	5650.0	5726.6	5803.2	5941.0	6053.3	6094.1	6048.2	6053.3	6048.2
15°	5486.7	5563.3	5614.3	5716.4	5793.0	5849.1	5828.7	5859.3	5833.8
17.5°	5241.7	5333.6	5354.0	5430.6	5486.7	5522.5	5542.9	5573.5	5532.7
20°	4910.0	4981.4	5007.0	5037.6	5063.1	5109.0	5170.3	5200.9	5155.0
22.5°	4445.5	4583.3	4578.2	4562.9	4588.4	4603.7	4700.7	4751.8	4716.0
25°	3924.9	4067.8	4052.5	3991.3	3996.4	4027.0	4149.5	4215.8	4190.3
27.5°	3378.8	3511.5	3475.8	3358.4	3327.8	3373.7	3531.9	3608.5	3593.2
30°	2853.1	2939.9	2883.7	2674.5	2638.7	2694.9	2899.0	2975.6	2934.8
32.5°	2286.6	2352.9	2327.4	2072.2	2010.9	2067.1	2307.0	2378.4	2332.5
35°	1827.2	1888.5	1852.7	1551.6	1495.5	1556.7	1806.8	1888.5	1847.6
37.5°	1464.8	1510.8	1464.8	1143.3	1092.2	1153.5	1393.4	1500.6	1449.5
40°	1163.7	1199.4	1138.2	842.1	801.3	831.9	1056.5	1163.7	1128.0
42.5°	918.7	944.2	877.9	617.6	571.6	612.5	796.2	893.2	872.8
45°	745.2	745.2	663.5	428.7	372.6	413.4	597.2	699.2	704.3
47.5°	638.0	622.7	520.6	285.8	214.4	270.5	474.7	581.8	597.2
50°	551.2	530.8	428.7	209.3	137.8	193.9	393.0	500.2	515.5
52.5°	474.7	459.4	357.3	163.3	97.0	148.0	331.8	433.8	449.1
55°	398.1	387.9	296.0	127.6	76.6	112.3	265.4	352.2	362.4
57.5°	326.7	311.3	239.9	107.2	61.2	91.9	219.5	290.9	301.1
60°	275.6	260.3	193.9	86.8	51.0	71.5	178.6	239.9	250.1
62.5°	229.7	214.4	158.2	71.5	40.8	61.2	142.9	193.9	204.2
65°	183.7	173.5	122.5	56.1	35.7	45.9	112.3	153.1	163.3
67.5°	148.0	137.8	97.0	45.9	30.6	35.7	86.8	122.5	132.7
70°	112.3	102.1	71.5	35.7	25.5	30.6	66.4	91.9	102.1
72.5°	81.7	76.6	56.1	30.6	20.4	25.5	45.9	66.4	76.6
75°	61.2	56.1	40.8	20.4	15.3	20.4	35.7	51.0	56.1
77.5°	40.8	40.8	30.6	15.3	15.3	15.3	25.5	35.7	35.7
80°	30.6	25.5	20.4	10.2	10.2	10.2	15.3	25.5	25.5
82.5°	20.4	15.3	15.3	10.2	10.2	10.2	10.2	15.3	15.3
85°	10.2	10.2	10.2	5.1	5.1	5.1	5.1	10.2	10.2
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)