

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: P859474

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDSWMW**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859474
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 EU4709035 4LBMDSWMW
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDSW TRIM WITH MW FINISH
Light Source: -
Ballast/Driver: -

Summary

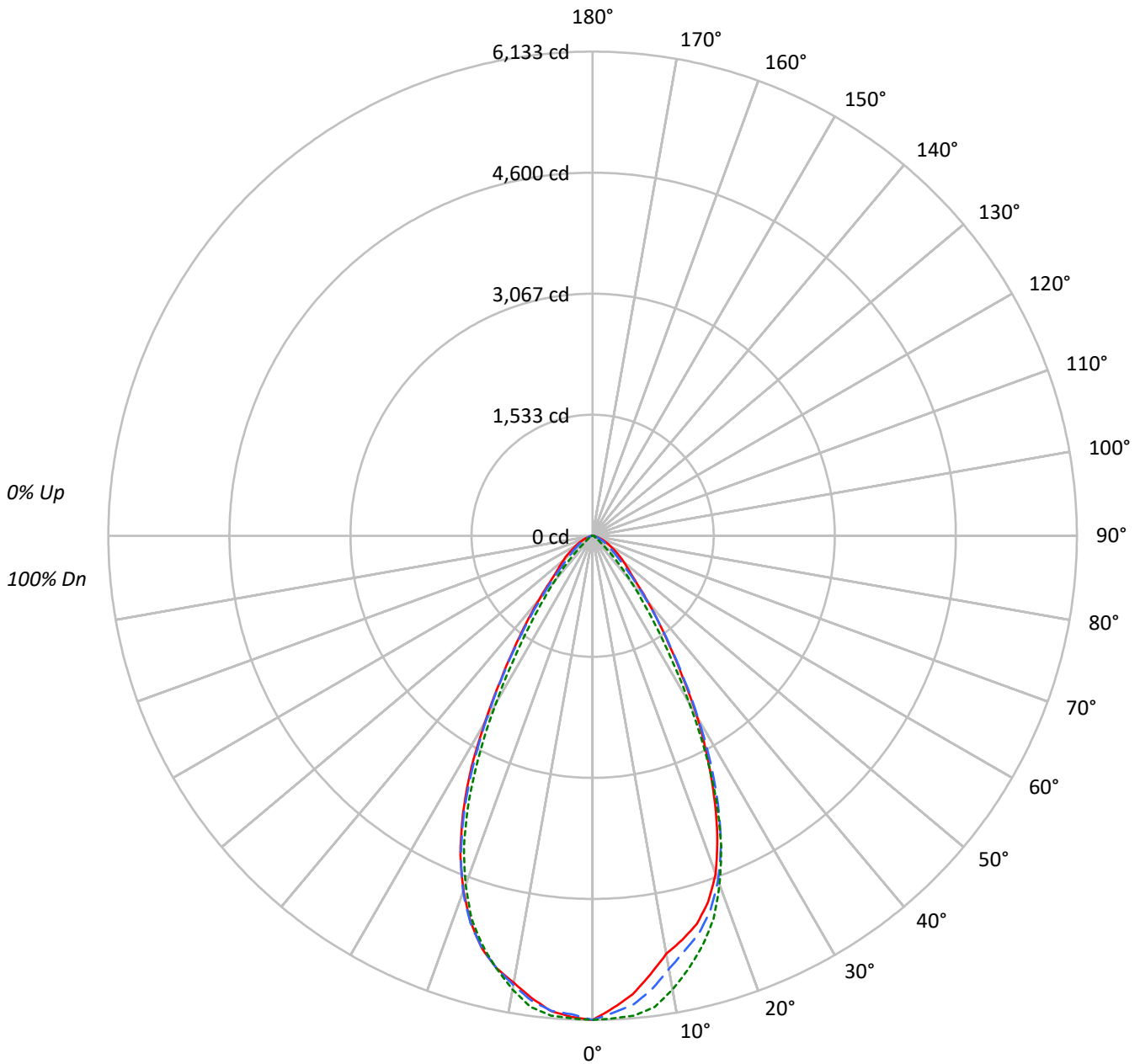
Lumens per Lamp: N/A
Luminaire Lumens: 5583.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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°	753436	753436	753436
5°	718947	752232	745227
10°	670537	727846	717205
15°	647510	683644	688465
20°	595616	614194	625333
25°	493660	502647	527047
30°	375543	347328	386296
35°	254270	208107	257120
40°	173172	119238	167847
45°	120125	60062	113540
50°	97761	24445	91416
55°	79121	15207	72010
60°	62827	11647	57029
65°	49564	9651	44040
70°	37429	8513	34016
75°	26961	6740	24730
80°	20093	6721	16767
85°	13391	6625	13391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.9	10.1
10°-20°	1481.5	26.5
20°-30°	1699.8	30.4
30°-40°	1032.6	18.5
40°-50°	442.5	7.9
50°-60°	212.3	3.8
60°-70°	103.2	1.8
70°-80°	38.3	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°	3745.2	67.1
0°-40°	4777.8	85.6
0°-60°	5432.7	97.3
0°-90°	5583.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5583.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6133	6133	6133	6133	6133	
5°	5830	5958	6100	6038	6043	542
15°	5091	5209	5375	5408	5413	1417
25°	3642	3760	3708	3850	3888	1652
35°	1695	1719	1388	1676	1714	1087
45°	691	616	346	554	654	562
55°	369	275	71	246	336	333
65°	170	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°	6132.8	6132.8	6132.8	6132.8	6132.8	6132.8	6132.8	6132.8	6132.8
2.5°	5986.0	6052.3	6047.6	6104.4	6118.6	6104.4	6066.5	6104.4	6099.7
5°	5829.8	5905.5	5957.6	6052.3	6099.7	6090.2	6038.1	6047.6	6042.9
7.5°	5602.4	5697.2	5787.1	5929.2	6019.2	6014.4	5938.7	5924.5	5905.5
10°	5375.1	5465.1	5569.3	5716.1	5834.5	5853.4	5777.7	5758.7	5749.2
12.5°	5242.5	5313.6	5384.6	5512.5	5616.6	5654.5	5611.9	5616.6	5611.9
15°	5091.0	5162.0	5209.4	5304.1	5375.1	5427.2	5408.3	5436.7	5413.0
17.5°	4863.7	4948.9	4967.8	5038.9	5091.0	5124.1	5143.1	5171.5	5133.6
20°	4555.8	4622.1	4645.8	4674.2	4697.9	4740.5	4797.4	4825.8	4783.1
22.5°	4124.9	4252.7	4248.0	4233.8	4257.5	4271.7	4361.7	4409.0	4375.9
25°	3641.8	3774.4	3760.2	3703.4	3708.1	3736.5	3850.2	3911.8	3888.1
27.5°	3135.1	3258.2	3225.1	3116.1	3087.7	3130.4	3277.2	3348.2	3334.0
30°	2647.3	2727.8	2675.7	2481.6	2448.4	2500.5	2689.9	2761.0	2723.1
32.5°	2121.6	2183.2	2159.5	1922.7	1865.9	1918.0	2140.6	2206.9	2164.3
35°	1695.4	1752.2	1719.1	1439.7	1387.6	1444.4	1676.5	1752.2	1714.4
37.5°	1359.2	1401.8	1359.2	1060.8	1013.5	1070.3	1292.9	1392.3	1345.0
40°	1079.8	1112.9	1056.1	781.4	743.5	771.9	980.3	1079.8	1046.6
42.5°	852.4	876.1	814.6	573.0	530.4	568.3	738.8	828.8	809.8
45°	691.4	691.4	615.7	397.8	345.7	383.6	554.1	648.8	653.5
47.5°	592.0	577.8	483.1	265.2	198.9	251.0	440.4	539.9	554.1
50°	511.5	492.5	397.8	194.2	127.9	180.0	364.7	464.1	478.3
52.5°	440.4	426.2	331.5	151.5	90.0	137.3	307.8	402.5	416.7
55°	369.4	359.9	274.7	118.4	71.0	104.2	246.3	326.8	336.2
57.5°	303.1	288.9	222.6	99.5	56.8	85.2	203.6	269.9	279.4
60°	255.7	241.5	180.0	80.5	47.4	66.3	165.8	222.6	232.1
62.5°	213.1	198.9	146.8	66.3	37.9	56.8	132.6	180.0	189.4
65°	170.5	161.0	113.7	52.1	33.2	42.6	104.2	142.1	151.5
67.5°	137.3	127.9	90.0	42.6	28.4	33.2	80.5	113.7	123.1
70°	104.2	94.7	66.3	33.2	23.7	28.4	61.6	85.2	94.7
72.5°	75.8	71.0	52.1	28.4	18.9	23.7	42.6	61.6	71.0
75°	56.8	52.1	37.9	18.9	14.2	18.9	33.2	47.4	52.1
77.5°	37.9	37.9	28.4	14.2	14.2	14.2	23.7	33.2	33.2
80°	28.4	23.7	18.9	9.5	9.5	9.5	14.2	23.7	23.7
82.5°	18.9	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)