

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: P859452

Luminaire Tested: **LD4C70D010 EU4709030 4LBMDSWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/12/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C70D010 EU4709030 4LBMDSWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBMDSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

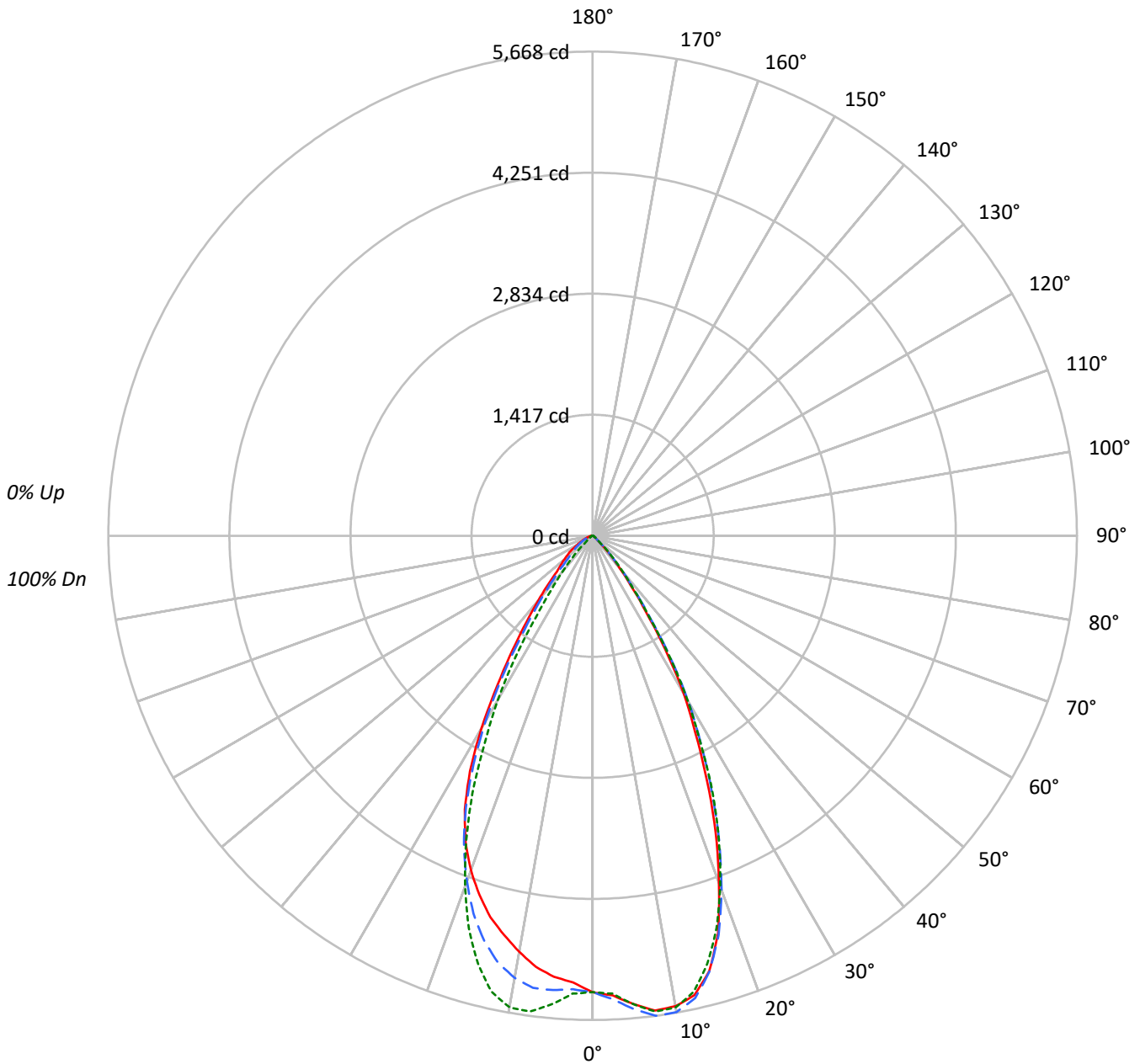
Lumens per Lamp: N/A
Luminaire Lumens: 4750.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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																			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58																			
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	656369	656369	656369
5°	678719	679163	639034
10°	697507	699341	616770
15°	671155	659517	587898
20°	565102	570357	544550
25°	429272	451082	479345
30°	301918	314374	368833
35°	162889	170568	244057
40°	78583	86794	158353
45°	27955	38119	102924
50°	10493	13283	82471
55°	7839	9403	68133
60°	6290	7199	49412
65°	5320	6366	38256
70°	3951	5244	30209
75°	3465	5221	22547
80°	2618	5165	15494
85°	0	5215	10290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.2	11.0
10°-20°	1403.3	29.5
20°-30°	1522.3	32.0
30°-40°	844.6	17.8
40°-50°	269.0	5.7
50°-60°	108.4	2.3
60°-70°	54.8	1.2
70°-80°	22.7	0.5
80°-90°	4.7	0.1
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°	3445.8	72.5
0°-40°	4290.3	90.3
0°-60°	4667.8	98.3
0°-90°	4750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4750.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	5343	5343	5343	5343	5343	
5°	5504	5562	5507	5339	5182	529
15°	5277	5280	5185	4908	4622	1443
25°	3167	3298	3328	3507	3536	1446
35°	1086	1174	1137	1503	1627	720
45°	161	190	219	490	592	154
55°	37	37	44	234	318	33
65°	18	18	22	106	132	18
75°	7	7	11	37	48	9
85°	0	0	4	7	7	1
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°	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7	5342.7
2.5°	5386.6	5434.1	5430.4	5393.9	5364.6	5353.7	5313.4	5265.9	5233.0
5°	5503.6	5562.1	5562.1	5532.8	5507.2	5445.1	5339.0	5236.6	5181.8
7.5°	5606.0	5664.5	5668.1	5646.2	5616.9	5514.6	5339.0	5174.5	5090.4
10°	5591.3	5635.2	5660.8	5638.9	5606.0	5470.7	5254.9	5035.5	4944.1
12.5°	5507.2	5547.5	5543.8	5510.9	5467.0	5328.1	5116.0	4889.2	4786.8
15°	5276.9	5298.8	5280.5	5243.9	5185.4	5079.4	4907.5	4713.7	4622.3
17.5°	4878.3	4907.5	4900.2	4841.7	4819.7	4717.4	4636.9	4487.0	4406.5
20°	4322.4	4413.8	4413.8	4370.0	4362.6	4293.2	4304.1	4223.7	4165.2
22.5°	3762.9	3843.4	3869.0	3850.7	3865.3	3832.4	3934.8	3912.8	3883.6
25°	3166.8	3247.3	3298.5	3291.2	3327.7	3327.7	3506.9	3550.8	3536.2
27.5°	2607.3	2684.1	2742.6	2757.3	2735.3	2775.6	3020.6	3108.3	3108.3
30°	2128.3	2190.5	2245.3	2245.3	2216.1	2245.3	2505.0	2607.3	2600.0
32.5°	1587.1	1656.6	1707.8	1700.4	1674.8	1715.1	1989.3	2091.7	2066.1
35°	1086.1	1133.6	1173.9	1159.2	1137.3	1203.1	1503.0	1631.0	1627.3
37.5°	735.0	778.9	804.5	793.5	786.2	863.0	1137.3	1279.9	1272.6
40°	490.0	519.3	537.6	533.9	541.2	607.0	855.7	987.4	987.4
42.5°	310.8	329.1	347.4	347.4	365.7	435.2	650.9	764.3	764.3
45°	160.9	171.9	190.2	201.1	219.4	292.5	490.0	585.1	592.4
47.5°	76.8	80.5	87.8	91.4	106.0	182.8	376.7	479.0	501.0
50°	54.9	58.5	58.5	58.5	69.5	139.0	318.1	413.2	431.5
52.5°	43.9	43.9	43.9	47.5	54.9	117.0	274.3	358.4	373.0
55°	36.6	36.6	36.6	36.6	43.9	95.1	234.0	307.2	318.1
57.5°	29.3	29.3	29.3	29.3	36.6	76.8	193.8	245.0	248.7
60°	25.6	25.6	25.6	25.6	29.3	65.8	157.2	201.1	201.1
62.5°	21.9	21.9	21.9	21.9	25.6	54.9	131.6	164.6	160.9
65°	18.3	18.3	18.3	18.3	21.9	43.9	106.0	131.6	131.6
67.5°	14.6	14.6	14.6	14.6	18.3	36.6	84.1	106.0	106.0
70°	11.0	11.0	11.0	11.0	14.6	29.3	69.5	84.1	84.1
72.5°	11.0	11.0	11.0	11.0	11.0	21.9	51.2	65.8	62.2
75°	7.3	7.3	7.3	7.3	11.0	18.3	36.6	47.5	47.5
77.5°	7.3	7.3	7.3	7.3	7.3	14.6	29.3	32.9	32.9
80°	3.7	3.7	3.7	3.7	7.3	11.0	18.3	21.9	21.9
82.5°	0.0	3.7	0.0	3.7	3.7	7.3	14.6	14.6	14.6
85°	0.0	0.0	0.0	0.0	3.7	3.7	7.3	11.0	7.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.7	3.7	3.7	3.7
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)