

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: P859512

Luminaire Tested: **LD4C70D010 EU4709050 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859512
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 4LBMDDWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

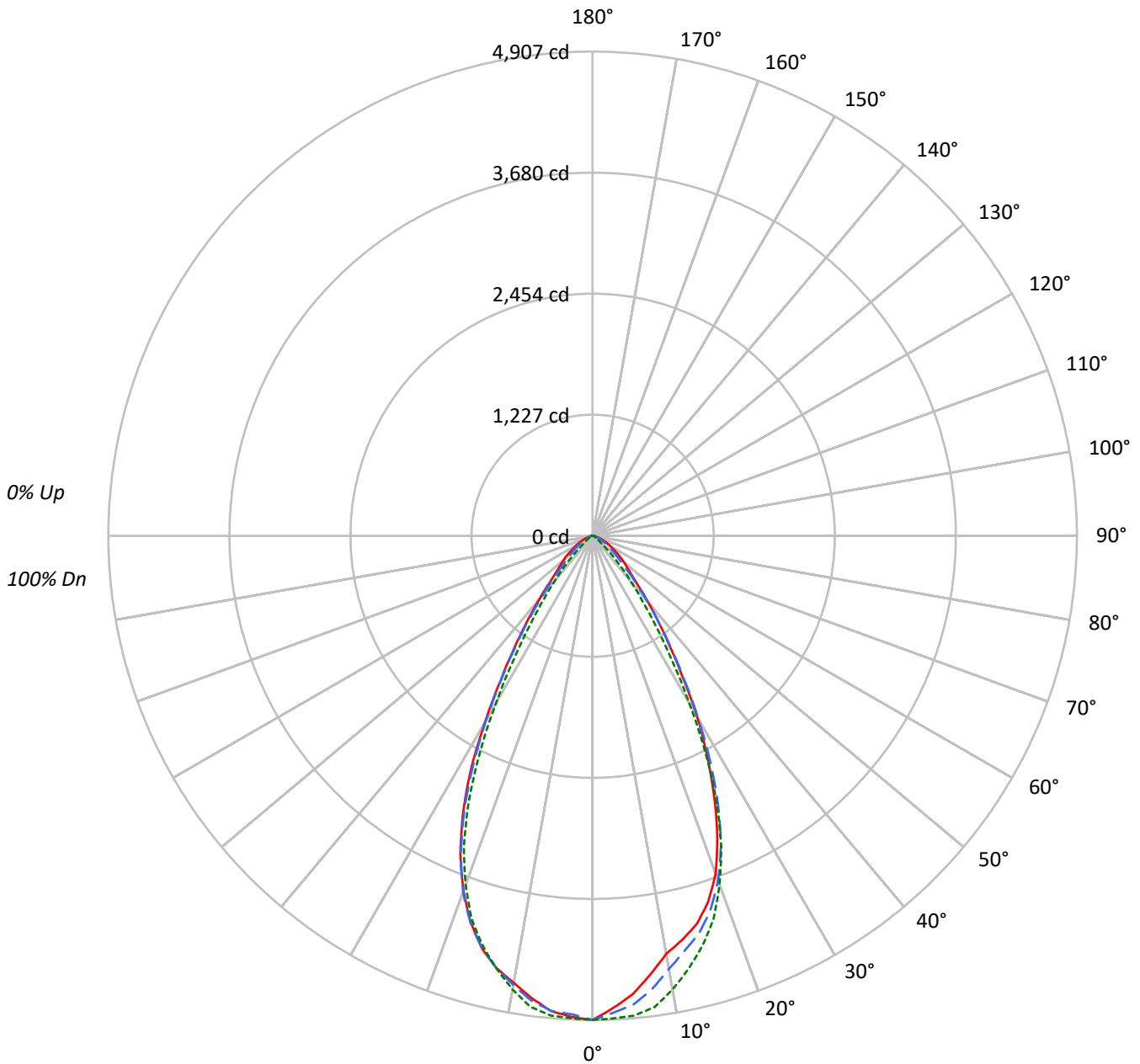
Lumens per Lamp: N/A
Luminaire Lumens: 4467.0 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859512

CATALOG NUMBER: LD4C70D010 EU4709050 4LBMDDWLI

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°	602830	602830	602830
5°	575227	601864	596253
10°	536507	582352	573844
15°	518072	546994	550848
20°	476566	491418	500334
25°	394977	402175	421694
30°	300471	277902	309082
35°	203443	166504	205723
40°	138547	95406	134297
45°	96114	48057	90849
50°	78209	19552	73144
55°	63314	12166	57617
60°	50272	9312	45628
65°	39651	7703	35261
70°	29957	6789	27227
75°	21597	5411	19794
80°	16060	5377	13371
85°	10713	5356	10713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.2	10.1
10°-20°	1185.4	26.5
20°-30°	1360.0	30.4
30°-40°	826.2	18.5
40°-50°	354.1	7.9
50°-60°	169.9	3.8
60°-70°	82.6	1.8
70°-80°	30.6	0.7
80°-90°	7.1	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°	2996.6	67.1
0°-40°	3822.8	85.6
0°-60°	4346.7	97.3
0°-90°	4467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4467.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4907	4907	4907	4907	4907	
5°	4664	4767	4880	4831	4835	433
15°	4073	4168	4301	4327	4331	1134
25°	2914	3009	2967	3081	3111	1322
35°	1356	1376	1110	1341	1372	869
45°	553	493	277	443	523	449
55°	296	220	57	197	269	267
65°	136	91	26	83	121	138
75°	46	30	11	26	42	50
85°	8	8	4	4	8	10
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°	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9	4906.9
2.5°	4789.5	4842.5	4838.7	4884.2	4895.6	4884.2	4853.9	4884.2	4880.4
5°	4664.4	4725.1	4766.7	4842.5	4880.4	4872.8	4831.2	4838.7	4834.9
7.5°	4482.6	4558.3	4630.3	4744.0	4816.0	4812.2	4751.6	4740.2	4725.1
10°	4300.7	4372.7	4456.0	4573.5	4668.2	4683.4	4622.7	4607.6	4600.0
12.5°	4194.6	4251.4	4308.3	4410.6	4493.9	4524.2	4490.1	4493.9	4490.1
15°	4073.3	4130.2	4168.1	4243.8	4300.7	4342.4	4327.2	4349.9	4331.0
17.5°	3891.4	3959.6	3974.8	4031.6	4073.3	4099.8	4115.0	4137.7	4107.4
20°	3645.2	3698.2	3717.1	3739.9	3758.8	3792.9	3838.4	3861.1	3827.0
22.5°	3300.3	3402.6	3398.9	3387.5	3406.4	3417.8	3489.8	3527.7	3501.2
25°	2913.8	3019.9	3008.6	2963.1	2966.9	2989.6	3080.6	3129.8	3110.9
27.5°	2508.4	2606.9	2580.4	2493.3	2470.5	2504.6	2622.1	2678.9	2667.6
30°	2118.1	2182.5	2140.9	1985.5	1959.0	2000.7	2152.2	2209.1	2178.8
32.5°	1697.5	1746.8	1727.8	1538.4	1492.9	1534.6	1712.7	1765.7	1731.6
35°	1356.5	1402.0	1375.5	1151.9	1110.2	1155.7	1341.4	1402.0	1371.7
37.5°	1087.5	1121.6	1087.5	848.8	810.9	856.3	1034.4	1114.0	1076.1
40°	863.9	890.4	845.0	625.2	594.9	617.6	784.4	863.9	837.4
42.5°	682.0	701.0	651.7	458.5	424.4	454.7	591.1	663.1	647.9
45°	553.2	553.2	492.6	318.3	276.6	306.9	443.3	519.1	522.9
47.5°	473.6	462.3	386.5	212.2	159.1	200.8	352.4	432.0	443.3
50°	409.2	394.1	318.3	155.4	102.3	144.0	291.8	371.3	382.7
52.5°	352.4	341.0	265.2	121.3	72.0	109.9	246.3	322.1	333.4
55°	295.6	288.0	219.8	94.7	56.8	83.4	197.0	261.5	269.0
57.5°	242.5	231.1	178.1	79.6	45.5	68.2	162.9	216.0	223.6
60°	204.6	193.2	144.0	64.4	37.9	53.0	132.6	178.1	185.7
62.5°	170.5	159.1	117.5	53.0	30.3	45.5	106.1	144.0	151.6
65°	136.4	128.8	90.9	41.7	26.5	34.1	83.4	113.7	121.3
67.5°	109.9	102.3	72.0	34.1	22.7	26.5	64.4	90.9	98.5
70°	83.4	75.8	53.0	26.5	18.9	22.7	49.3	68.2	75.8
72.5°	60.6	56.8	41.7	22.7	15.2	18.9	34.1	49.3	56.8
75°	45.5	41.7	30.3	15.2	11.4	15.2	26.5	37.9	41.7
77.5°	30.3	30.3	22.7	11.4	11.4	11.4	18.9	26.5	26.5
80°	22.7	18.9	15.2	7.6	7.6	7.6	11.4	18.9	18.9
82.5°	15.2	11.4	11.4	7.6	7.6	7.6	7.6	11.4	11.4
85°	7.6	7.6	7.6	3.8	3.8	3.8	3.8	7.6	7.6
87.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
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)