

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: P859470

Luminaire Tested: **LD4C70D010 EU4709035 4LBMDDWLI**

Issue Date: 4/12/2024

Test Information

Test Method: LM-79-08
Report Number: P859470
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 4LBMDDWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

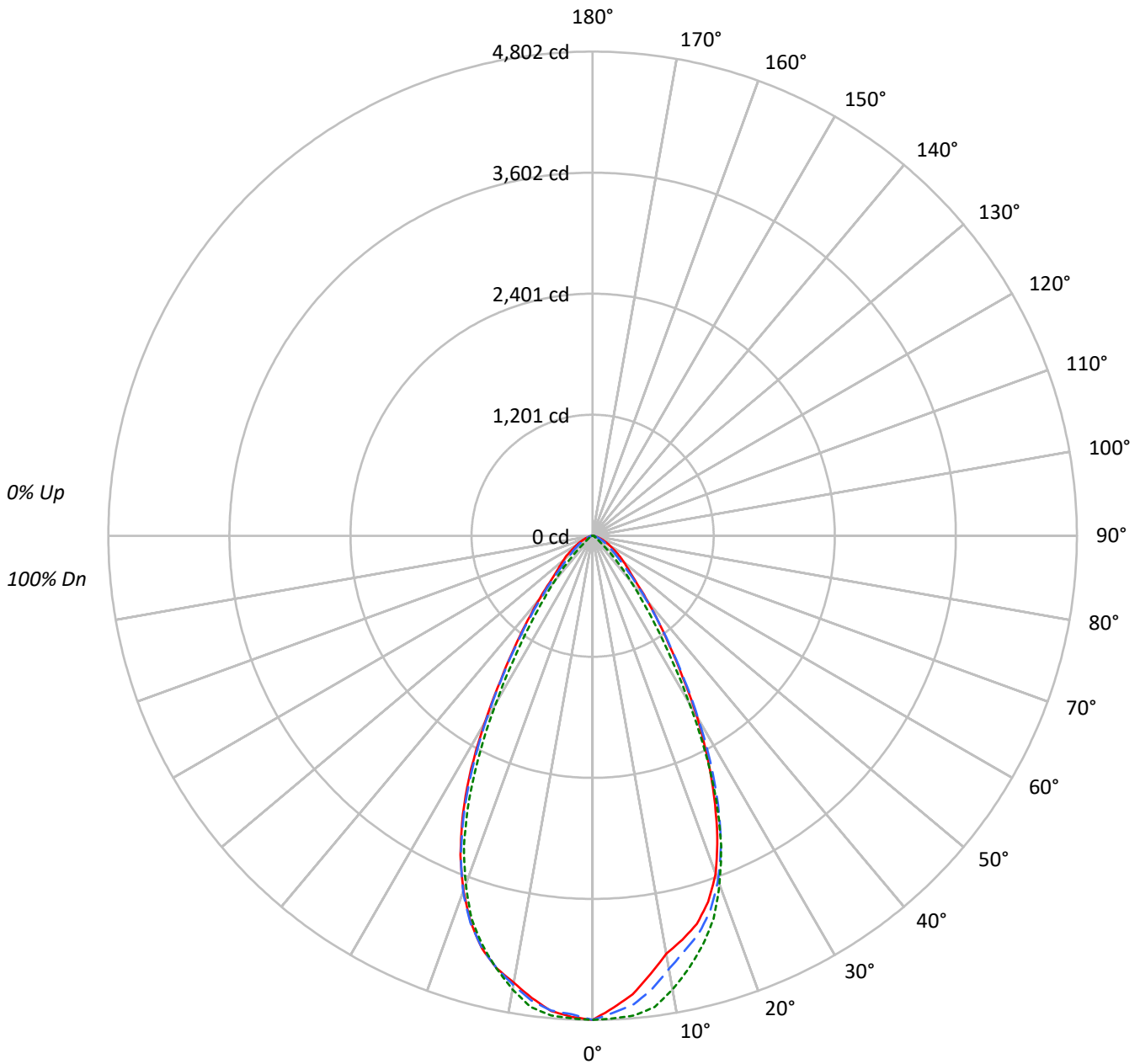
Lumens per Lamp: N/A
Luminaire Lumens: 4371.0 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	589881	589881	589881
5°	562870	588928	583440
10°	524967	569840	561519
15°	506943	535229	539007
20°	466316	480854	489587
25°	386491	393526	412626
30°	294017	271929	302429
35°	199079	162934	201298
40°	135580	93354	131410
45°	94046	47032	88903
50°	76527	19132	71577
55°	61943	11909	56374
60°	49191	9116	44645
65°	38808	7558	34477
70°	29311	6645	26653
75°	21123	5269	19367
80°	15706	5235	13088
85°	10431	5215	10431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.5	10.1
10°-20°	1159.9	26.5
20°-30°	1330.8	30.4
30°-40°	808.4	18.5
40°-50°	346.5	7.9
50°-60°	166.2	3.8
60°-70°	80.8	1.8
70°-80°	30.0	0.7
80°-90°	6.9	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°	2932.2	67.1
0°-40°	3740.6	85.6
0°-60°	4253.3	97.3
0°-90°	4371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4371.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4802	4802	4802	4802	4802	
5°	4564	4664	4776	4727	4731	424
15°	3986	4078	4208	4234	4238	1110
25°	2851	2944	2903	3014	3044	1293
35°	1327	1346	1086	1312	1342	851
45°	541	482	271	434	512	440
55°	289	215	56	193	263	261
65°	134	89	26	82	119	135
75°	44	30	11	26	41	49
85°	7	7	4	4	7	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°	4801.5	4801.5	4801.5	4801.5	4801.5	4801.5	4801.5	4801.5	4801.5
2.5°	4686.5	4738.4	4734.7	4779.2	4790.4	4779.2	4749.6	4779.2	4775.5
5°	4564.2	4623.5	4664.3	4738.4	4775.5	4768.1	4727.3	4734.7	4731.0
7.5°	4386.2	4460.4	4530.8	4642.0	4712.5	4708.8	4649.5	4638.3	4623.5
10°	4208.2	4278.7	4360.3	4475.2	4567.9	4582.7	4523.4	4508.6	4501.2
12.5°	4104.4	4160.0	4215.7	4315.8	4397.3	4427.0	4393.6	4397.3	4393.6
15°	3985.8	4041.4	4078.5	4152.6	4208.2	4249.0	4234.2	4256.4	4237.9
17.5°	3807.8	3874.6	3889.4	3945.0	3985.8	4011.7	4026.6	4048.8	4019.2
20°	3566.8	3618.7	3637.3	3659.5	3678.0	3711.4	3755.9	3778.2	3744.8
22.5°	3229.4	3329.5	3325.8	3314.7	3333.2	3344.4	3414.8	3451.9	3425.9
25°	2851.2	2955.0	2943.9	2899.4	2903.1	2925.4	3014.4	3062.6	3044.0
27.5°	2454.5	2550.9	2524.9	2439.7	2417.4	2450.8	2565.7	2621.3	2610.2
30°	2072.6	2135.6	2094.9	1942.8	1916.9	1957.7	2106.0	2161.6	2131.9
32.5°	1661.1	1709.3	1690.7	1505.3	1460.8	1501.6	1675.9	1727.8	1694.4
35°	1327.4	1371.9	1345.9	1127.1	1086.4	1130.9	1312.5	1371.9	1342.2
37.5°	1064.1	1097.5	1064.1	830.5	793.4	837.9	1012.2	1090.1	1053.0
40°	845.4	871.3	826.8	611.8	582.1	604.4	767.5	845.4	819.4
42.5°	667.4	685.9	637.7	448.6	415.3	444.9	578.4	648.8	634.0
45°	541.3	541.3	482.0	311.4	270.7	300.3	433.8	508.0	511.7
47.5°	463.5	452.3	378.2	207.6	155.7	196.5	344.8	422.7	433.8
50°	400.4	385.6	311.4	152.0	100.1	140.9	285.5	363.4	374.5
52.5°	344.8	333.7	259.5	118.6	70.4	107.5	241.0	315.2	326.3
55°	289.2	281.8	215.0	92.7	55.6	81.6	192.8	255.8	263.2
57.5°	237.3	226.2	174.3	77.9	44.5	66.7	159.4	211.3	218.8
60°	200.2	189.1	140.9	63.0	37.1	51.9	129.8	174.3	181.7
62.5°	166.8	155.7	114.9	51.9	29.7	44.5	103.8	140.9	148.3
65°	133.5	126.1	89.0	40.8	26.0	33.4	81.6	111.2	118.6
67.5°	107.5	100.1	70.4	33.4	22.2	26.0	63.0	89.0	96.4
70°	81.6	74.2	51.9	26.0	18.5	22.2	48.2	66.7	74.2
72.5°	59.3	55.6	40.8	22.2	14.8	18.5	33.4	48.2	55.6
75°	44.5	40.8	29.7	14.8	11.1	14.8	26.0	37.1	40.8
77.5°	29.7	29.7	22.2	11.1	11.1	11.1	18.5	26.0	26.0
80°	22.2	18.5	14.8	7.4	7.4	7.4	11.1	18.5	18.5
82.5°	14.8	11.1	11.1	7.4	7.4	7.4	7.4	11.1	11.1
85°	7.4	7.4	7.4	3.7	3.7	3.7	3.7	7.4	7.4
87.5°	3.7	3.7	3.7	3.7	3.7	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)