

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: P859491

Luminaire Tested: **LD4C70D010 EU4709040 4LBMDDWLI**

Issue Date: 4/12/2024



Test Information

Test Method: LM-79-08
Report Number: P859491
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 4LBMDDWLI
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBMDDW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

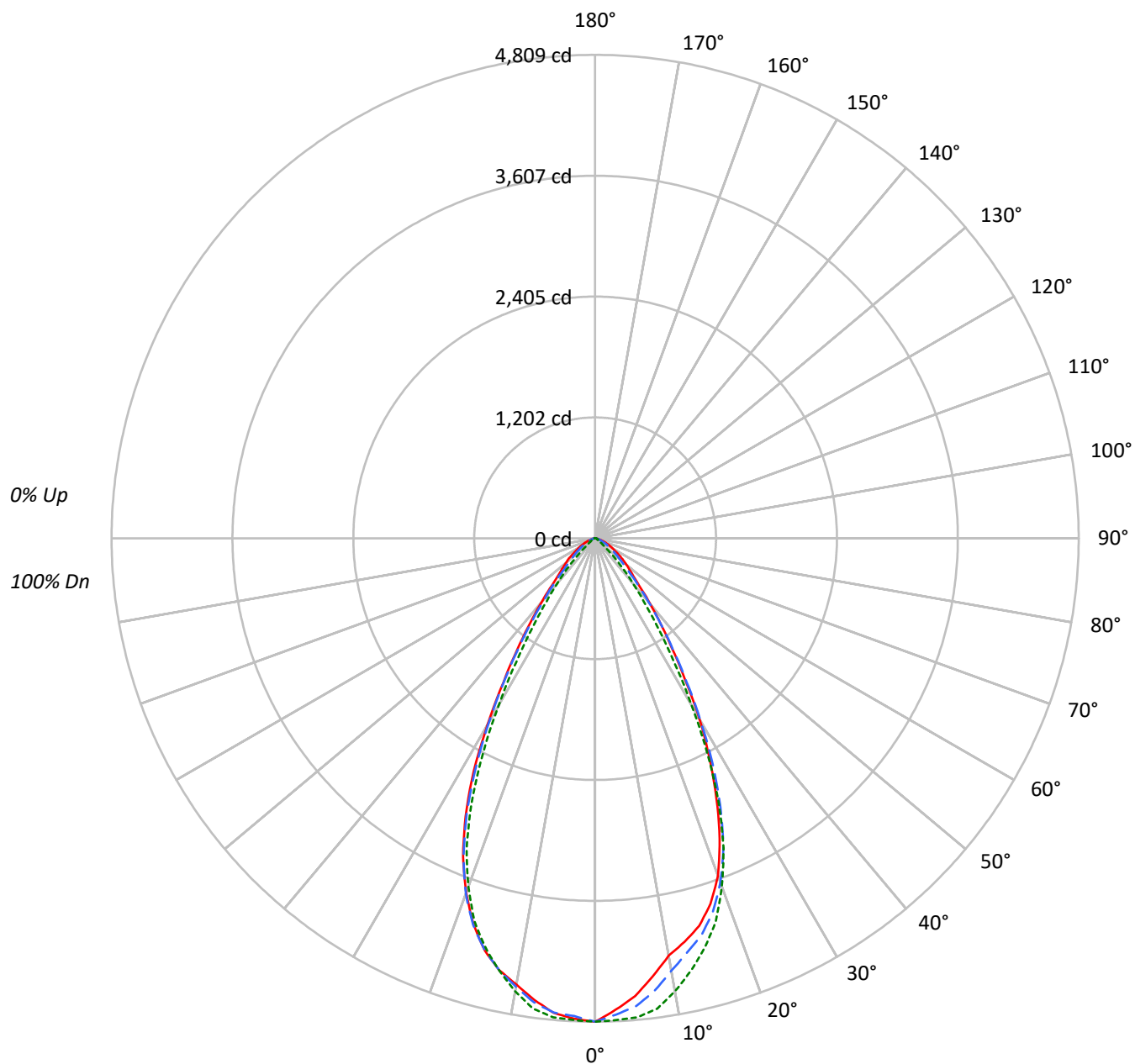
Lumens per Lamp: N/A
Luminaire Lumens: 4378.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	113	110	107	105	111	108	105	103		104	102	100			100	99	97			97
2	107	102	97	94	105	100	96	93		97	93	91			94	91	89			91
3	101	94	89	85	99	93	88	84		90	86	83			88	84	81			85
4	96	88	82	77	94	86	81	77		84	80	76			82	78	75			80
5	91	82	75	71	89	81	75	71		79	74	70			77	73	69			76
6	86	76	70	66	84	76	70	65		74	69	65			73	68	64			71
7	81	72	65	61	80	71	65	61		70	64	60			68	64	60			67
8	77	67	61	57	76	67	61	57		66	60	56			65	60	56			64
9	74	63	57	53	72	63	57	53		62	57	53			61	56	53			60
10	70	60	54	50	69	60	54	50		59	53	50			58	53	50			57

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	590827	590827	590827
5°	563770	589877	584377
10°	525816	570750	562417
15°	507757	536094	539872
20°	467061	481625	490372
25°	387115	394163	413290
30°	294485	272369	302911
35°	199394	163189	201613
40°	135789	93498	131619
45°	94202	47101	89042
50°	76661	19170	71691
55°	62050	11930	56482
60°	49264	9116	44719
65°	38866	7558	34535
70°	29347	6681	26689
75°	21170	5269	19414
80°	15777	5235	13159
85°	10431	5215	10431



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	10.1
10°-20°	1161.8	26.5
20°-30°	1332.9	30.4
30°-40°	809.7	18.5
40°-50°	347.0	7.9
50°-60°	166.5	3.8
60°-70°	80.9	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°	2936.9	67.1
0°-40°	3746.6	85.6
0°-60°	4260.1	97.3
0°-90°	4378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4378.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4809	4809	4809	4809	4809	
5°	4572	4672	4783	4735	4739	425
15°	3992	4085	4215	4241	4245	1111
25°	2856	2949	2908	3019	3049	1295
35°	1330	1348	1088	1315	1344	852
45°	542	483	271	434	512	441
55°	290	215	56	193	264	261
65°	134	89	26	82	119	136
75°	45	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°	4809.2	4809.2	4809.2	4809.2	4809.2	4809.2	4809.2	4809.2	4809.2
2.5°	4694.0	4746.0	4742.3	4786.9	4798.0	4786.9	4757.2	4786.9	4783.2
5°	4571.5	4630.9	4671.8	4746.0	4783.2	4775.7	4734.9	4742.3	4738.6
7.5°	4393.2	4467.5	4538.1	4649.5	4720.0	4716.3	4656.9	4645.8	4630.9
10°	4215.0	4285.5	4367.2	4482.4	4575.2	4590.1	4530.6	4515.8	4508.4
12.5°	4111.0	4166.7	4222.4	4322.7	4404.4	4434.1	4400.7	4404.4	4400.7
15°	3992.2	4047.9	4085.0	4159.3	4215.0	4255.8	4241.0	4263.3	4244.7
17.5°	3813.9	3880.8	3895.6	3951.3	3992.2	4018.2	4033.0	4055.3	4025.6
20°	3572.5	3624.5	3643.1	3665.4	3683.9	3717.4	3761.9	3784.2	3750.8
22.5°	3234.6	3334.9	3331.1	3320.0	3338.6	3349.7	3420.3	3457.4	3431.4
25°	2855.8	2959.8	2948.6	2904.1	2907.8	2930.1	3019.2	3067.5	3048.9
27.5°	2458.4	2555.0	2529.0	2443.6	2421.3	2454.7	2569.8	2625.5	2614.4
30°	2075.9	2139.1	2098.2	1945.9	1920.0	1960.8	2109.3	2165.1	2135.3
32.5°	1663.7	1712.0	1693.4	1507.7	1463.2	1504.0	1678.6	1730.6	1697.1
35°	1329.5	1374.0	1348.1	1128.9	1088.1	1132.7	1314.6	1374.0	1344.3
37.5°	1065.8	1099.2	1065.8	831.9	794.7	839.3	1013.8	1091.8	1054.7
40°	846.7	872.7	828.1	612.8	583.0	605.3	768.7	846.7	820.7
42.5°	668.5	687.0	638.7	449.4	415.9	445.6	579.3	649.9	635.0
45°	542.2	542.2	482.8	311.9	271.1	300.8	434.5	508.8	512.5
47.5°	464.2	453.1	378.8	208.0	156.0	196.8	345.4	423.4	434.5
50°	401.1	386.2	311.9	152.3	100.3	141.1	286.0	363.9	375.1
52.5°	345.4	334.2	260.0	118.8	70.6	107.7	241.4	315.7	326.8
55°	289.7	282.2	215.4	92.8	55.7	81.7	193.1	256.2	263.7
57.5°	237.7	226.5	174.5	78.0	44.6	66.8	159.7	211.7	219.1
60°	200.5	189.4	141.1	63.1	37.1	52.0	130.0	174.5	182.0
62.5°	167.1	156.0	115.1	52.0	29.7	44.6	104.0	141.1	148.5
65°	133.7	126.3	89.1	40.9	26.0	33.4	81.7	111.4	118.8
67.5°	107.7	100.3	70.6	33.4	22.3	26.0	63.1	89.1	96.6
70°	81.7	74.3	52.0	26.0	18.6	22.3	48.3	66.8	74.3
72.5°	59.4	55.7	40.9	22.3	14.9	18.6	33.4	48.3	55.7
75°	44.6	40.9	29.7	14.9	11.1	14.9	26.0	37.1	40.9
77.5°	29.7	29.7	22.3	11.1	11.1	11.1	18.6	26.0	26.0
80°	22.3	18.6	14.9	7.4	7.4	7.4	11.1	18.6	18.6
82.5°	14.9	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)