

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: P859824

Luminaire Tested: **LX4C08D010 EX4C089030 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C08D010 EX4C089030 4LBSWNH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

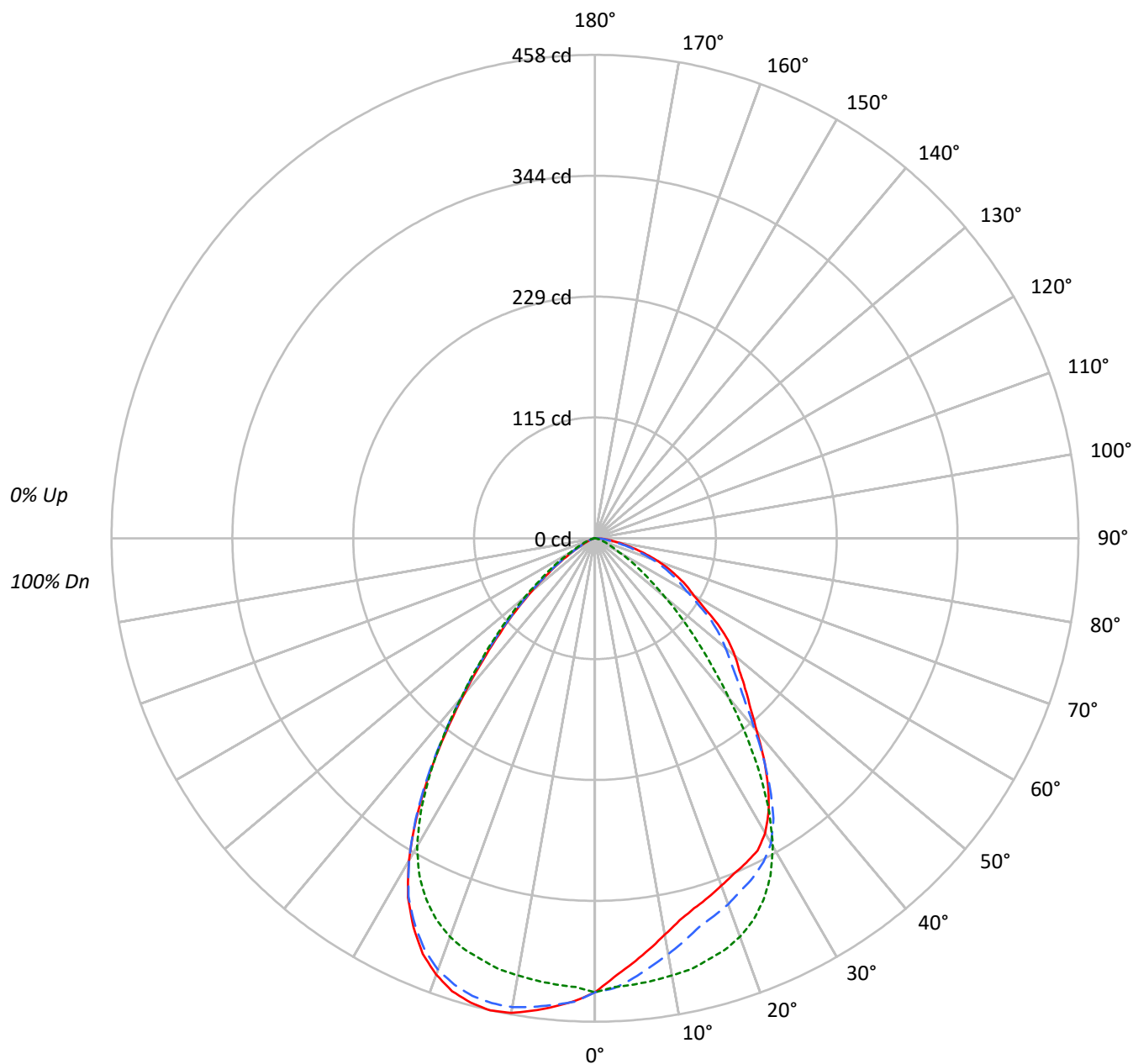
Lumens per Lamp: N/A
Luminaire Lumens: 753.7 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 10.7
Input Voltage (V):
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

TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

Luminous Intensity Polar Plot





TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52839	52839	52839
5°	49884	52338	54940
10°	47554	52457	56960
15°	46156	52579	57921
20°	45784	52517	57512
25°	45966	51226	55143
30°			



TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	5.4
10°-20°	116.6	15.5
20°-30°	172.8	22.9
30°-40°	173.0	23.0
40°-50°	120.9	16.0
50°-60°	71.9	9.5
60°-70°	37.6	5.0
70°-80°	16.7	2.2
80°-90°	3.6	0.5
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°	330.0	43.8
0°-40°	503.0	66.7
0°-60°	695.9	92.3
0°-90°	753.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	430	430	430	430	430	
5°	404	418	424	444	446	38
15°	363	381	413	449	455	103
25°	339	355	378	404	407	156
35°	286	289	272	277	275	177
45°	201	191	136	131	128	156
55°	142	133	52	45	44	126
65°	86	79	14	11	10	86
75°	40	35	4	3	3	43
85°	10	7	1	1	0	11
90°	0	0	0	0	0	



TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	416.1	421.1	416.1	417.9	424.4	418.4	421.7	421.7	420.1	424.0	426.6
5°	404.5	409.5	404.5	406.8	413.9	407.8	411.8	410.6	411.2	414.5	418.4
7.5°	392.9	396.8	392.3	395.2	401.7	396.8	400.1	400.1	400.7	405.6	408.9
10°	381.2	384.6	381.2	383.5	390.7	386.2	388.5	389.0	390.7	395.2	400.1
12.5°	370.7	373.5	370.2	373.5	379.6	375.1	377.9	378.4	380.1	385.1	390.7
15°	362.9	365.8	362.3	365.2	370.7	367.4	369.7	370.7	371.9	376.2	381.2
17.5°	356.8	359.1	356.3	359.6	364.1	360.2	363.5	363.5	365.2	369.7	375.1
20°	350.2	352.5	350.2	353.0	358.0	354.6	357.4	357.4	359.1	364.1	369.0
22.5°	344.1	345.1	344.1	346.4	351.2	348.6	350.2	350.7	352.5	356.8	361.3
25°	339.1	341.3	340.3	342.5	345.7	343.0	344.7	345.1	346.9	350.7	354.6
27.5°	333.5	334.7	333.5	336.4	339.1	336.9	338.6	338.0	339.1	342.5	345.7
30°	322.5	323.7	323.7	325.3	327.5	326.4	328.0	326.4	327.5	330.3	333.5
32.5°	306.4	307.0	307.5	309.2	310.9	309.2	310.2	310.2	310.2	312.5	314.7
35°	285.9	287.1	286.5	287.6	289.2	288.8	288.8	288.2	287.1	288.2	289.2
37.5°	262.6	261.0	261.0	262.6	263.8	261.6	262.6	261.6	261.6	262.0	262.0
40°	238.3	236.7	238.3	238.7	239.3	238.3	237.7	236.7	234.9	235.5	234.5
42.5°	217.8	216.7	217.3	217.3	217.8	216.7	217.3	215.0	213.4	212.2	210.6
45°	201.1	199.5	201.1	200.0	200.0	199.5	199.0	197.8	195.6	194.0	191.1
47.5°	185.6	185.6	186.2	186							



TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	424.4	423.4	426.6	425.6	426.2	423.4	427.8	425.6	428.2	425.6	431.1
5°	417.3	416.1	421.1	420.5	421.1	418.9	424.0	423.4	426.6	424.4	430.5
7.5°	409.5	408.4	413.9	414.5	415.6	413.4	420.1	420.1	423.4	422.7	429.5
10°	400.7	401.1	406.8	407.8	410.0	408.9	415.0	416.6	421.1	420.5	428.9
12.5°	392.3	392.3	399.5	401.7	403.3	402.9	410.0	412.3	417.3	418.4	426.2
15°	384.0	384.6	391.2	394.6	396.8	396.2	403.9	406.8	412.8	413.4	422.7
17.5°	377.4	376.8	384.0	386.7	390.1	389.5	397.8	401.1	407.3	408.9	417.9
20°	371.9	371.3	377.9	381.2	383.5	382.9	391.2	395.2	400.7	401.7	410.6
22.5°	365.2	364.1	370.7	373.5	375.8	375.1	382.4	385.1	390.7	391.7	400.1
25°	357.4	356.3	362.3	364.1	365.8	364.6	370.7	372.3	376.8	377.9	386.2
27.5°	348.6	345.7	350.7	350.7	351.8	350.2	354.6	356.3	360.2	360.2	368.0
30°	334.7	330.8	333.5	333.0	333.5	331.4	334.2	334.7	337.4	336.9	342.5
32.5°	315.3	309.7	311.5	309.7	308.1	304.8	308.1	307.0	309.2	307.0	312.0
35°	288.8	283.1	282.6	280.3	278.7	276.0	276.0	273.2	273.7	272.1	275.5
37.5°	259.9	252.7	251.6	247.2	244.4	241.0	241.0	238.7	236.1	234.9	237.7
40°	231.6	223.9	221.1	213.8	211.2	207.7	205.6	202.8	201.7	197.2	199.5
42.5°	207.3	199.0	192.9	185.0	182.4	177.3	174.0	170.7	169.1	164.0	166.2
45°	186.7	176.8	170.1	160.1	156.2	150.7	145.8	141.9	138.0	135.8	134.6
47.5°	169.6	159.1	150								



TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	435.6	432.2	430.1	432.7	433.9	432.2	433.9	436.7	439.4	439.9	432.2
5°	436.1	432.7	431.7	435.0	435.6	435.0	436.7	440.5	443.8	445.0	437.2
7.5°	436.1	433.9	433.3	437.2	437.8	437.2	439.9	444.4	447.7	449.9	442.2
10°	435.0	433.9	434.4	437.8	438.8	438.8	442.8	447.7	451.1	453.3	445.5
12.5°	433.3	433.3	433.3	437.2	438.3	438.8	442.2	448.9	451.1	454.4	446.7
15°	430.5	430.5	430.5	434.4	436.1	436.1	439.9	446.0	448.9	452.1	444.4
17.5°	425.6	425.6	426.2	429.5	431.1	431.1	435.0	441.7	443.3	447.3	439.4
20°	418.4	418.4	418.9	422.3	424.0	422.7	427.8	433.3	435.0	438.3	430.5
22.5°	407.8	407.8	407.8	411.2	412.3	411.8	416.6	421.7	421.7	426.2	417.9
25°	392.3	393.4	392.3	395.6	396.8	396.2	400.7	405.0	403.9	408.9	400.7
27.5°	373.5	372.9	372.9	375.8	375.8	375.1	378.4	383.5	382.4	385.6	377.9
30°	347.4	349.0	346.4	350.2	348.6	347.4	349.6	354.1	352.5	355.2	349.0
32.5°	317.6	315.3	315.3	315.3	316.3	313.7	315.9	318.0	316.3	319.2	312.5
35°	278.2	278.7	277.1	277.6	278.2	274.8	277.1	279.3	277.1	278.7	272.6
37.5°	238.7	239.3	235.5	237.7	235.5	234.5	236.7	237.7	235.5	237.1	230.5
40°	199.5	198.4	197.8	197.8	198.4	195.6	197.2	199.0	197.2	198.4	192.3
42.5°	165.2	164.6	163.5	164.0	162.3	161.7	162.3	164.0	162.3	163	



TEST NUMBER: P859824

CATALOG NUMBER: LX4C08D010 EX4C089030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	430.1	430.1	430.1	430.1	430.1	430.1	430.1	430.1
2.5°	440.5	439.9	438.8	440.5	436.1	434.4	433.9	438.8
5°	446.7	445.5	445.5	447.3	442.2	441.1	439.9	445.5
7.5°	452.1	451.1	451.1	452.8	448.3	447.3	446.0	451.5
10°	455.4	455.4	455.4	456.6	452.8	451.5	451.1	456.6
12.5°	457.1	457.1	456.6	458.9	453.8	453.8	452.8	458.2
15°	455.0	455.0	455.0	456.6	452.1	451.1	451.1	455.4
17.5°	449.4	449.4	448.9	450.5	445.5	445.5	445.0	449.9
20°	441.1	441.1	439.9	442.2	437.2	435.6	435.0	439.9
22.5°	427.8	427.2	426.6	427.8	423.4	422.3	421.7	426.2
25°	410.6	410.0	408.9	410.0	405.0	403.3	403.3	406.8
27.5°	386.2	386.2	384.6	386.2	380.6	380.1	379.6	383.5
30°	356.3	354.1	353.0	355.2	349.6	349.6	348.6	352.5
32.5°	319.2	317.0	316.3	317.6	312.5	310.9	313.1	315.3
35°	276.5	277.1	274.8	274.8	270.4	271.0	271.6	274.8
37.5°	235.5	234.5	233.9	234.5	231.0	230.0	228.9	232.2
40°	197.2	194.5	194.0	194.0	191.1	190.6	191.1	192.9
42.5°	161.3	160.7	158.5	159.5	156.9	157.9	157.5	157.5
45°	130.3	130.7	128.6	130.3	128.1	126.3	126.3	127.5
47.5°	103.1	103.1	102.5	102.5	100.9	101.4	100.3	101.9
50°	79.9	79.9	78.6	79.2	78.2	78.2	77.6	78.2
52.5°	60.9	60.4	60.4	59.8	58.8	59.3	59.8	58.8
55°	44.3	44.9	43.7	44.3	43.2	43.7	43.2	43.7
57.5°	30.4	31.0	29.9	31.0	29.9	30.4	29.9	29.9



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)