

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: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-10-W-ASY-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34179)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-ASY-UNV-L840-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

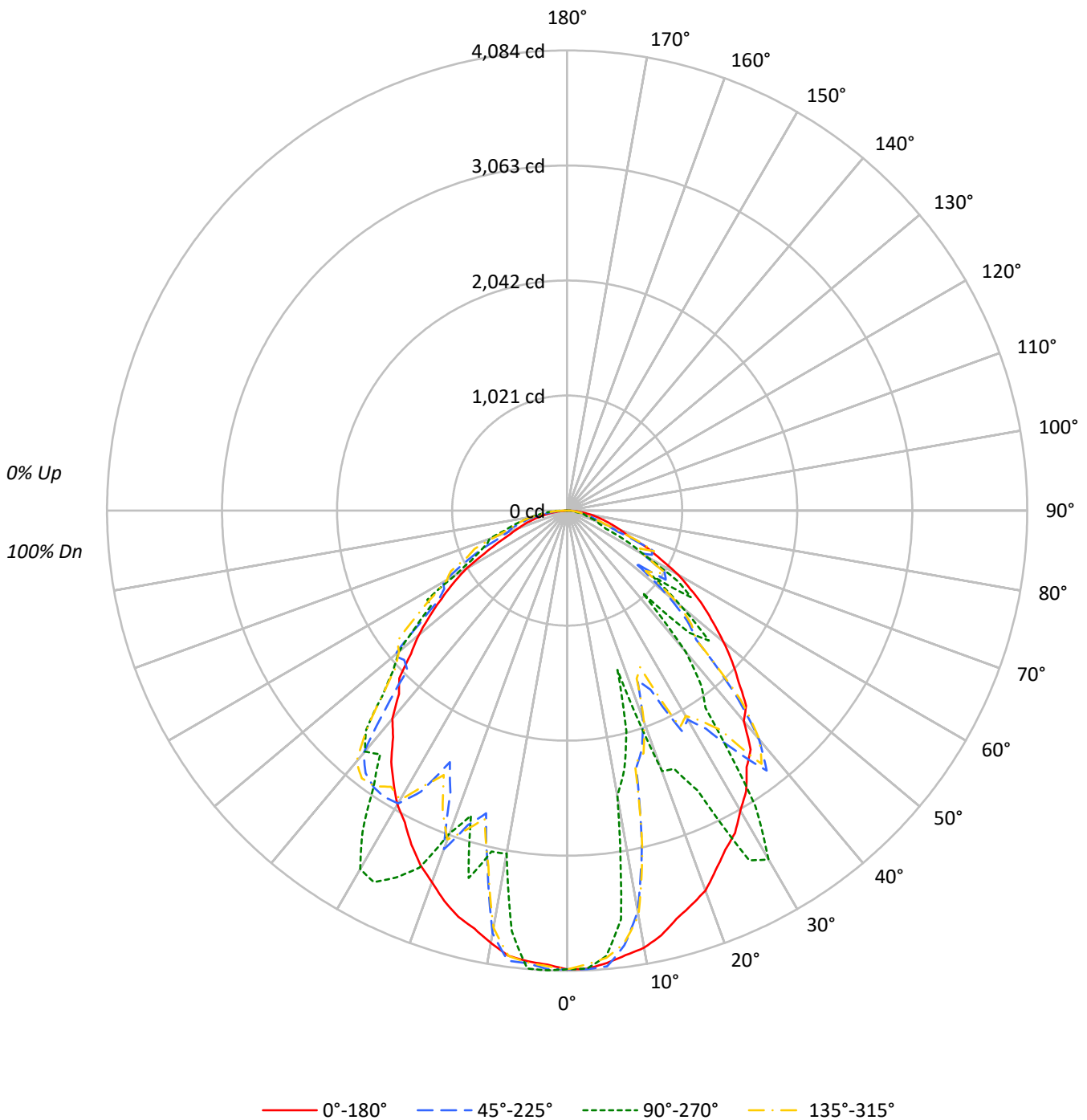
Lumens per Lamp: N/A
Luminaire Lumens: 8018.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.25 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
Input Voltage (V):
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					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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86				86
2	101	93	87	81	98	91	85	80	88	83	79	84	80	77	81	78	75	73				73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63				63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54				54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47				47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42				42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37				37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34				34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30				30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28				28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5976	5976	5976	5976
5°	5933	5794	5911	5952
10°	5859	3759	5795	4522
15°	5681	2994	5652	4985
20°	5580	3697	5455	4575
25°	5347	4224	5265	5537
30°	5173	5700	5070	5857
35°	4936	3561	4835	4983
40°	4622	2866	4574	4902
45°	4414	2866	4317	4331
50°	4070	2669	3870	3936
55°	3707	2970	3414	3268
60°	3264	1952	2966	2822
65°	2651	1062	2299	2386
70°	2084	930	1922	2414
75°	1864	688	1706	1968
80°	1708	478	1434	1608
85°	1513	354	981	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	4.6
10°-20°	860.5	10.7
20°-30°	1280.8	16.0
30°-40°	1615.3	20.1
40°-50°	1463.0	18.2
50°-60°	1216.4	15.2
60°-70°	734.9	9.2
70°-80°	364.5	4.5
80°-90°	112.2	1.4
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
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0°-30°	2511.8	31.3
0°-40°	4127.1	51.5
0°-60°	6806.5	84.9
0°-90°	8018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8018.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4071	4071	4071	4071	4071	
5°	4031	3970	4016	4078	4031	382
15°	3751	2028	3732	3376	3751	1061
25°	3321	2741	3270	3593	3321	1536
35°	2779	2139	2722	2994	2779	1746
45°	2153	1532	2106	2314	2153	1661
55°	1475	1341	1358	1476	1475	1312
65°	784	377	680	848	784	770
75°	344	171	315	488	344	369
85°	103	47	67	176	103	114
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°	202.5°	225°
0°	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4
2.5°	4070.1	4093.6	4074.2	4070.1	4068.7	4072.8	4031.2	4018.7	4032.6	4074.2	4072.8
5°	4031.2	4065.9	4060.4	4002.1	3970.2	4004.9	3985.4	3988.2	4016.0	4045.1	4031.2
7.5°	3979.9	4022.9	3892.5	3727.4	3659.4	3745.5	3873.1	3973.0	3985.4	4032.6	4029.8
10°	3939.7	3978.5	3609.5	3047.7	2570.5	2947.8	3648.4	3892.5	3896.7	3961.9	3809.3
12.5°	3860.6	3805.1	3064.3	2388.8	2348.5	2412.4	3085.1	3713.5	3800.9	3845.3	3257.2
15°	3751.0	3585.9	2366.6	2087.7	2028.1	2096.1	2325.0	3558.2	3731.6	3773.2	2781.3
17.5°	3669.2	3357.0	2209.8	1849.1	1482.9	1764.5	2257.0	3426.4	3631.7	3565.1	2927.0
20°	3588.7	3126.8	1962.9	2011.4	2460.9	2001.7	1993.4	3171.2	3508.2	3111.5	3198.9
22.5°	3450.0	2634.3	1627.2	2398.5	2480.3	2374.9	1614.7	2723.1	3404.2	2809.1	2706.4
25°	3321.0	2183.5	1753.4	2490.0	2741.1	2455.4	1531.5	2158.5	3269.6	2512.2	2462.3
27.5°	3225.3	2060.0	2207.0	2863.2	3499.9	2666.2	2168.2	1993.4	3119.8	2376.3	2813.3
30°	3074.0	1888.0	2141.8	3495.8	3574.8	3433.3	2104.4	1917.1	3013.0	2515.0	3000.5
32.5°	2954.7	1677.1	2295.8	3297.4	3110.1	3280.7	2209.8	1788.1	2867.4	2646.8	3015.8
35°	2778.6	1589.7	2598.2	2884.0	2139.1	2792.4	2377.7	1642.5	2721.7	2445.6	2995.0
37.5°	2674.5	1308.1	2909.0	1956.0	1954.6	1958.7	2834.1	1448.2	2535.8	2076.6	2938.1
40°	2437.3	1414.9	2649.6	1788.1	1632.7	1825.6	2656.5	1181.9	2412.4	1835.3	2810.5
42.5°	2351.3	1588.4	2205.7	1469.1	990.5	1559.2	2284.7	1498.2	2209.8	1917.1	2384.6
45°	2152.9	1546.7	1621.6	929.4	1531.5	991.9	1614.7	1481.5	2105.8	2021.2	2004.5
47.5°	1986.5	1451.0	1444.1	1427.4	1706.3	1385.8	1496.8	1391.4	1879.7	1965.7	1961.5
50°	1808.9	1501.0	1151.4	1501.0	1320.6	1521.8	1280.4	1309.5	1720.1	1843.6	2003.1
52.5°	1632.7	1570.3	756.0	1122.2	957.2	1161.1	879.5	1292.9	1537.0	1732.6	1654.9
55°	1474.6	1560.6	1068.1	964.1	1341.4	918.3	964.1	1433.0	1358.1	1559.2	1394.1
57.5°	1297.0	1317.8	1027.9	1176.4	1161.1	1234.6	1033.5	1270.7	1199.9	1387.2	1294.3
60°	1136.1	980.8	756.0	919.7	790.7	1022.4	769.9	1047.3	1032.1	1090.3	1270.7
62.5°	930.8	793.5	849.0	672.8	620.1	663.1	728.3	758.8	825.4	923.9	1054.3
65°	783.8	627.0	836.5	428.6	377.3	502.2	851.7	670.0	679.7	836.5	878.1
67.5°	586.8	461.9	480.0	344.0	310.7	337.1	599.3	518.8	545.2	618.7	677.0
70°	502.2	410.6	348.2	283.0	281.6	284.4	375.9	387.0	463.3	521.6	560.4
72.5°	418.9	338.5	277.4	233.1	210.9	256.6	274.7	319.1	392.6	620.1	511.9
75°	344.0	391.2	224.7	191.4	170.6	187.3	220.6	289.9	314.9	385.6	418.9
77.5°	277.4	227.5	176.2	159.5	152.6	165.1	170.6	302.4	246.9	298.2	353.7
80°	216.4	169.2	137.3	106.8	91.6	104.0	135.9	154.0	181.7	222.0	263.6
82.5°	155.4	129.0	95.7	77.7	66.6	76.3	90.2	108.2	123.5	152.6	184.5
85°	102.7	84.6	68.0	55.5	47.2	54.1	61.0	68.0	66.6	91.6	117.9
87.5°	51.3	45.8	45.8	40.2	33.3	37.5	41.6	36.1	19.4	40.2	72.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4071.4	4071.4	4071.4	4071.4	4071.4	4071.4
2.5°	4072.8	4083.9	4081.2	4046.5	4049.3	4070.1
5°	4043.7	4078.4	4070.1	4025.7	4022.9	4031.2
7.5°	3903.6	3764.9	3968.8	3986.8	3971.6	3979.9
10°	3185.0	3092.1	3327.9	3760.7	3941.1	3939.7
12.5°	2859.0	3100.4	2906.2	3233.6	3855.0	3860.6
15°	3259.9	3376.5	3305.7	2829.9	3757.9	3751.0
17.5°	3051.9	2838.2	3079.6	2968.6	3634.5	3669.2
20°	2721.7	3044.9	2753.6	3107.3	3201.7	3588.7
22.5°	3302.9	3430.6	3173.9	2884.0	2897.9	3450.0
25°	3384.8	3592.9	3321.0	2589.9	2639.9	3321.0
27.5°	3480.5	3717.7	3459.7	2752.2	2484.5	3225.3
30°	3520.7	3673.3	3584.5	2963.1	2533.0	3074.0
32.5°	3443.0	3382.0	3522.1	2907.6	2499.7	2954.7
35°	3039.4	2993.6	3207.2	2983.9	2469.2	2778.6
37.5°	2578.8	2725.9	2816.0	2995.0	2252.8	2674.5
40°	2540.0	2792.4	2601.0	2907.6	2062.8	2437.3
42.5°	2599.6	2642.6	2548.3	2631.5	1906.0	2351.3
45°	2312.5	2313.9	2466.5	2316.6	1922.7	2152.9
47.5°	2012.8	2090.5	2161.3	2064.2	1908.8	1986.5
50°	1767.3	1947.6	1937.9	1949.0	1778.4	1808.9
52.5°	1767.3	1692.4	1711.8	1896.3	1696.6	1632.7
55°	1503.7	1476.0	1602.2	1632.7	1630.0	1474.6
57.5°	1334.5	1471.8	1378.9	1405.2	1464.9	1297.0
60°	1184.7	1143.1	1320.6	1231.8	1298.4	1136.1
62.5°	925.3	961.3	1023.8	1163.9	1084.8	930.8
65°	792.1	847.6	886.4	973.8	878.1	783.8
67.5°	746.3	769.9	758.8	892.0	754.6	586.8
70°	656.1	731.1	681.1	668.6	622.9	502.2
72.5°	546.6	570.1	622.9	532.7	481.4	418.9
75°	466.1	488.3	492.5	460.6	473.0	344.0
77.5°	370.4	394.0	391.2	392.6	391.2	277.4
80°	291.3	308.0	308.0	301.0	263.6	216.4
82.5°	219.2	235.8	240.0	217.8	195.6	155.4
85°	156.8	176.2	174.8	155.4	129.0	102.7
87.5°	101.3	123.5	126.2	99.9	76.3	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)