

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: **4ILED-LD5-11-W-ASYWG-UNV-L850-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-11-W-ASYWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

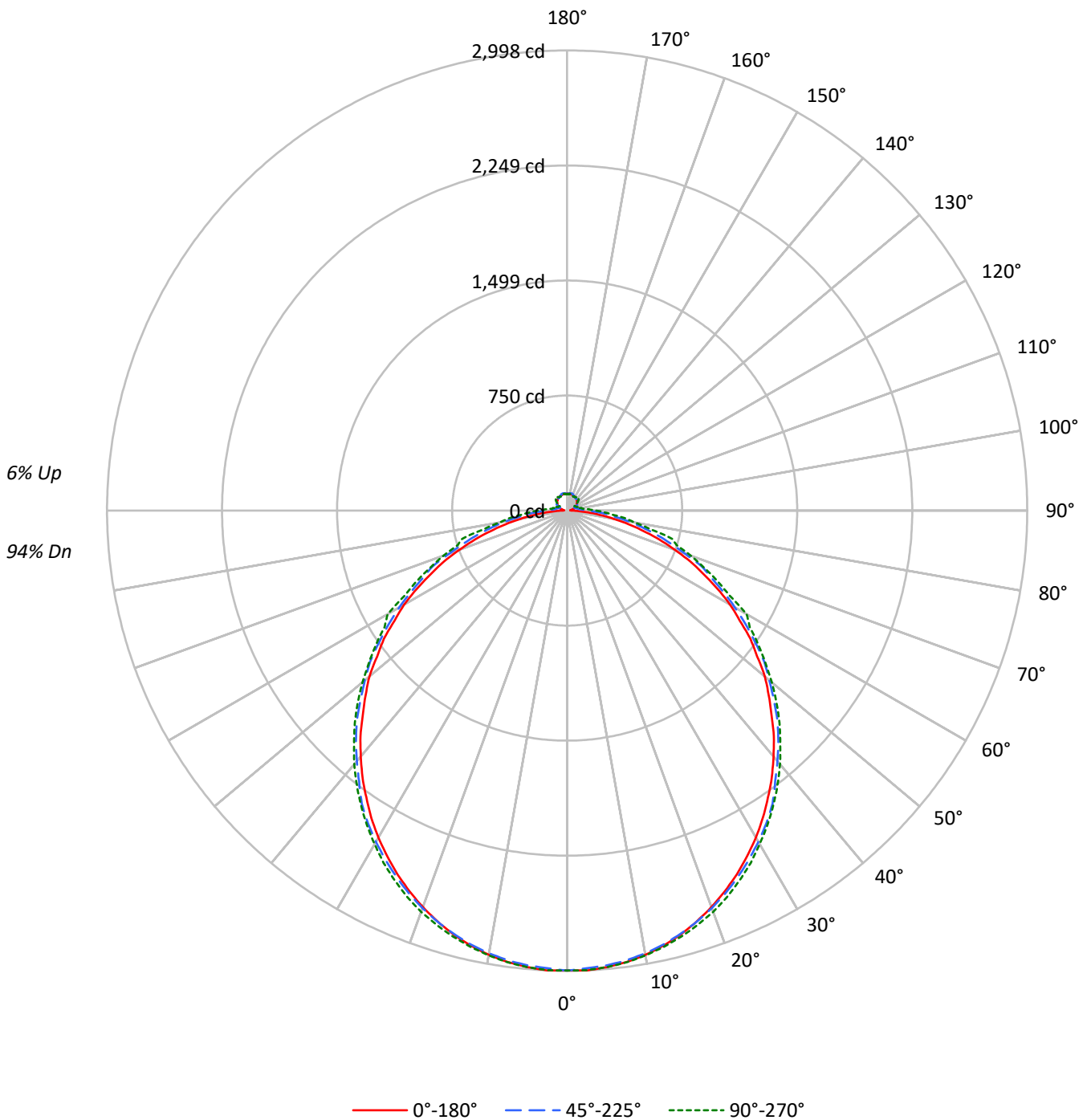
Lumens per Lamp: N/A
Luminaire Lumens: 9030.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 83.9
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	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8797	8797	8797
5°	8778	8691	8714
10°	8722	8587	8605
15°	8633	8461	8483
20°	8510	8321	8359
25°	8373	8168	8193
30°	8219	8006	8002
35°	8035	7839	7799
40°	7850	7565	7575
45°	7628	7348	7322
50°	7458	7057	7031
55°	7200	6739	6730
60°	6907	6365	6665
65°	6470	5979	6054
70°	5984	5535	5651
75°	5347	5024	5713
80°	4550	4504	4676
85°	3592	4059	4383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	3.1
10°-20°	807.7	8.9
20°-30°	1215.1	13.5
30°-40°	1452.3	16.1
40°-50°	1489.9	16.5
50°-60°	1337.0	14.8
60°-70°	1027.3	11.4
70°-80°	628.6	7.0
80°-90°	266.5	3.0
90°-100°	93.8	1.0
100°-110°	65.6	0.7
110°-120°	61.2	0.7
120°-130°	71.3	0.8
130°-140°	75.5	0.8
140°-150°	63.9	0.7
150°-160°	48.7	0.5
160°-170°	31.6	0.4
170°-180°	10.6	0.1
0°-30°	2306.0	25.5
0°-40°	3758.3	41.6
0°-60°	6585.2	72.9
0°-90°	8507.6	94.2
90°-120°	220.7	2.4
90°-150°	431.4	4.8
90°-180°	522.0	5.8
0°-180°	9030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2997	2997	2997	2997	2997	
5°	2985	2985	2974	2985	2985	284
15°	2860	2861	2855	2870	2873	806
25°	2615	2620	2633	2656	2658	1205
35°	2281	2311	2333	2338	2343	1428
45°	1883	1916	1938	1953	1956	1456
55°	1457	1470	1495	1516	1520	1298
65°	981	1000	1036	1069	1076	975
75°	515	544	600	634	709	549
85°	137	187	251	284	292	147
90°	26	74	142	180	188	20
95°	22	51	88	117	122	20
105°	41	40	60	94	88	43
115°	61	68	51	60	63	61
125°	78	78	92	79	66	70
135°	91	89	98	109	106	70
145°	99	102	98	102	107	62
155°	106	112	106	101	101	49
165°	109	112	116	112	109	31
175°	111	111	111	111	107	11
180°	109	109	109	109	109	



TEST NUMBER: P#

CATALOG NUMBER: 4ILED-LD5-11-W-ASYWG-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2996.7	2996.7	2996.7	2996.7	2996.7
2.5°	2998.4	2996.7	2983.5	2993.4	2996.7
5°	2985.2	2985.2	2973.6	2985.2	2985.2
7.5°	2967.0	2965.4	2955.4	2965.4	2968.7
10°	2938.9	2938.9	2929.0	2940.6	2942.2
12.5°	2902.6	2904.2	2896.0	2907.5	2910.8
15°	2859.6	2861.3	2854.7	2869.5	2872.8
17.5°	2806.8	2810.1	2808.4	2824.9	2829.9
20°	2748.9	2758.9	2755.6	2777.0	2782.0
22.5°	2684.5	2691.1	2697.7	2720.9	2724.2
25°	2615.1	2620.1	2633.3	2656.4	2658.1
27.5°	2539.1	2552.4	2563.9	2582.1	2588.7
30°	2459.8	2478.0	2491.2	2507.8	2509.4
32.5°	2373.9	2398.7	2415.2	2423.5	2428.5
35°	2281.4	2311.2	2332.6	2337.6	2342.6
37.5°	2190.6	2222.0	2226.9	2250.0	2251.7
40°	2091.4	2127.8	2131.1	2152.6	2157.5
42.5°	1994.0	2013.8	2036.9	2056.8	2055.1
45°	1883.3	1916.3	1937.8	1952.7	1956.0
47.5°	1780.9	1818.9	1825.5	1843.6	1850.3
50°	1681.7	1711.5	1719.7	1742.9	1739.6
52.5°	1561.2	1594.2	1619.0	1627.2	1627.2
55°	1457.1	1470.3	1495.1	1516.5	1519.9
57.5°	1333.2	1354.6	1377.8	1407.5	1410.8
60°	1227.4	1244.0	1262.1	1311.7	1349.7
62.5°	1103.5	1120.1	1146.5	1187.8	1187.8
65°	981.3	999.5	1035.8	1068.9	1075.5
67.5°	870.6	887.1	948.3	956.5	961.5
70°	745.1	766.5	812.8	844.2	855.7
72.5°	631.1	650.9	700.5	740.1	746.7
75°	515.4	543.5	599.7	634.4	708.7
77.5°	409.7	444.4	497.3	538.6	553.4
80°	307.3	345.3	409.7	441.1	447.7
82.5°	213.1	262.7	318.8	365.1	376.7
85°	137.1	186.7	251.1	284.1	292.4
87.5°	72.7	125.6	188.3	228.0	237.9
90°	26.4	74.3	142.1	180.1	188.3
92.5°	23.1	52.9	107.4	140.4	148.7
95°	21.5	51.2	87.6	117.3	122.2
97.5°	24.8	44.6	77.6	92.5	97.5
100°	29.7	39.6	74.3	89.2	94.2
102.5°	34.7	36.3	67.7	80.9	80.9
105°	41.3	39.6	59.5	94.2	87.6
107.5°	46.3	52.9	57.8	69.4	76.0
110°	52.9	57.8	51.2	66.1	67.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.8	64.4	51.2	64.4	64.4
115°	61.1	67.7	51.2	59.5	62.8
117.5°	66.1	69.4	64.4	57.8	57.8
120°	71.0	71.0	79.3	56.2	56.2
122.5°	74.3	74.3	84.3	62.8	56.2
125°	77.6	77.6	92.5	79.3	66.1
127.5°	80.9	80.9	95.8	90.9	82.6
130°	84.3	82.6	99.1	97.5	92.5
132.5°	87.6	85.9	99.1	102.4	99.1
135°	90.9	89.2	97.5	109.0	105.7
137.5°	92.5	92.5	95.8	110.7	110.7
140°	95.8	95.8	95.8	109.0	114.0
142.5°	97.5	99.1	97.5	105.7	110.7
145°	99.1	102.4	97.5	102.4	107.4
147.5°	100.8	105.7	97.5	102.4	102.4
150°	104.1	107.4	99.1	100.8	102.4
152.5°	104.1	110.7	102.4	100.8	100.8
155°	105.7	112.3	105.7	100.8	100.8
157.5°	107.4	112.3	107.4	102.4	100.8
160°	107.4	114.0	110.7	105.7	102.4
162.5°	109.0	114.0	114.0	109.0	105.7
165°	109.0	112.3	115.6	112.3	109.0
167.5°	109.0	112.3	115.6	114.0	110.7
170°	110.7	112.3	114.0	114.0	110.7
172.5°	110.7	110.7	112.3	112.3	110.7
175°	110.7	110.7	110.7	110.7	107.4
177.5°	110.7	110.7	110.7	109.0	105.7
180°	109.0	109.0	109.0	109.0	109.0

(END OF REPORT)