

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-LD5-9-W-FLWG-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 (P34182)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4ILED-LD5-9-W-FLWG-UNV-L850-CD1-U
Description: Metalux 4' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

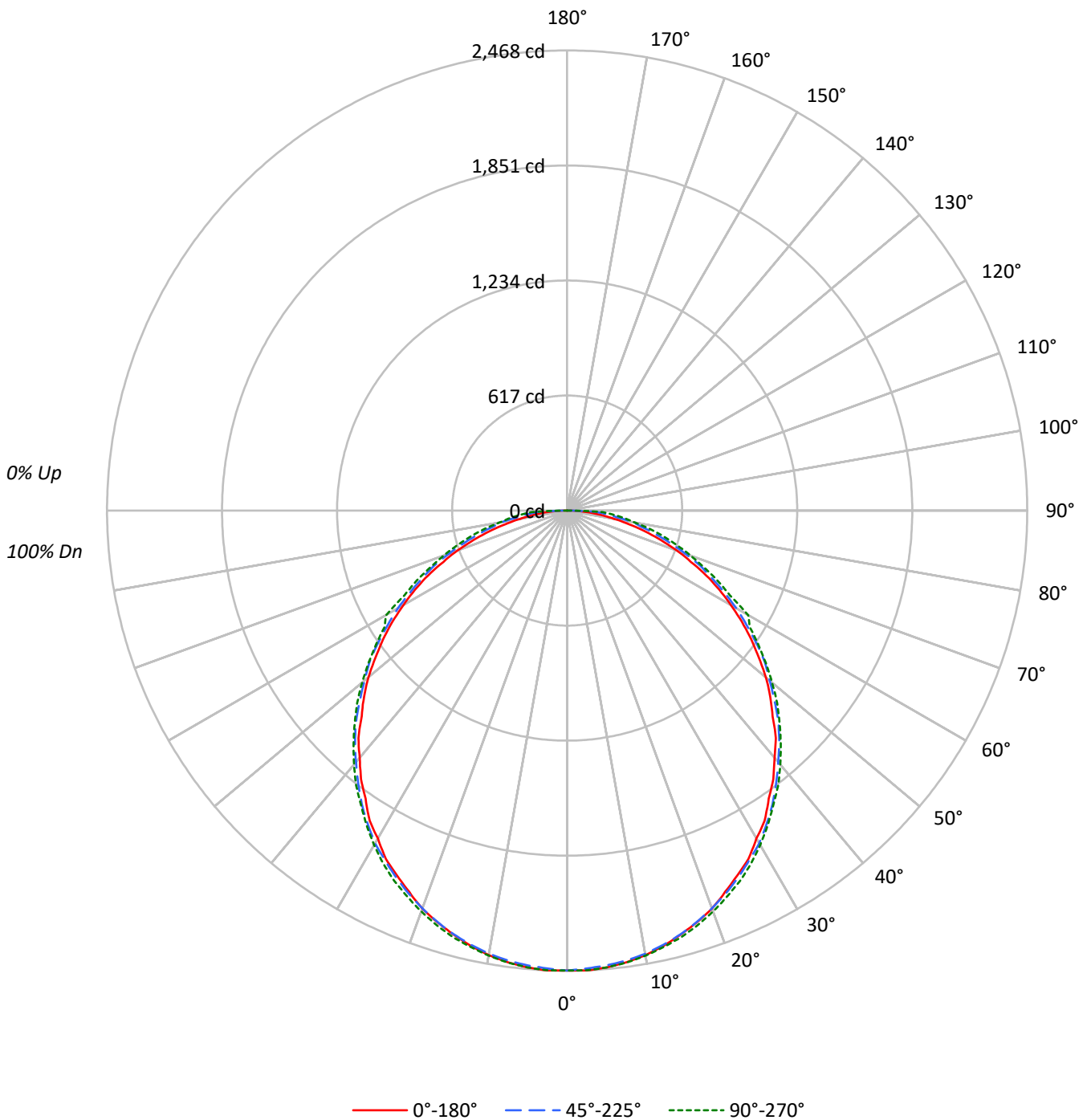
Lumens per Lamp: N/A
Luminaire Lumens: 7016.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 65.7
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7242	7242	7242
5°	7231	7155	7178
10°	7186	7076	7090
15°	7107	6973	6991
20°	7034	6857	6875
25°	6912	6734	6758
30°	6787	6623	6605
35°	6642	6455	6417
40°	6497	6254	6242
45°	6313	6074	6031
50°	6172	5821	5799
55°	5953	5582	5537
60°	5711	5281	5537
65°	5430	4941	5016
70°	5027	4583	4640
75°	4524	4139	4307
80°	3826	3892	3837
85°	3102	3307	3652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	3.3
10°-20°	665.4	9.5
20°-30°	1002.0	14.3
30°-40°	1198.3	17.1
40°-50°	1230.7	17.5
50°-60°	1105.2	15.8
60°-70°	850.4	12.1
70°-80°	524.2	7.5
80°-90°	206.7	2.9
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°	1900.6	27.1
0°-40°	3099.0	44.2
0°-60°	5434.8	77.5
0°-90°	7016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2467	2467	2467	2467	2467	
5°	2459	2458	2448	2458	2459	234
15°	2354	2358	2353	2362	2368	664
25°	2159	2162	2171	2187	2193	996
35°	1886	1913	1921	1927	1927	1183
45°	1559	1583	1602	1608	1611	1207
55°	1205	1221	1238	1252	1250	1077
65°	824	832	856	886	891	812
75°	436	459	494	526	534	461
85°	118	158	205	234	244	136
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2467.1	2467.1	2467.1	2467.1	2467.1
2.5°	2468.5	2467.1	2457.7	2464.4	2467.1
5°	2459.1	2457.7	2448.3	2457.7	2459.1
7.5°	2442.9	2442.9	2433.5	2442.9	2444.3
10°	2421.4	2421.4	2413.3	2421.4	2424.1
12.5°	2390.4	2393.1	2385.0	2394.5	2397.1
15°	2354.1	2358.1	2352.7	2362.2	2367.5
17.5°	2315.0	2316.4	2313.7	2325.8	2331.2
20°	2272.0	2270.6	2270.6	2286.8	2288.1
22.5°	2214.1	2220.8	2222.2	2239.7	2241.0
25°	2158.9	2161.6	2171.0	2187.2	2192.6
27.5°	2106.4	2105.1	2114.5	2129.3	2134.7
30°	2031.0	2044.5	2060.7	2066.0	2071.4
32.5°	1971.8	1975.9	1992.0	1997.4	2001.4
35°	1885.7	1912.6	1920.7	1927.4	1927.4
37.5°	1815.7	1830.5	1841.3	1853.4	1858.8
40°	1730.9	1749.7	1761.9	1774.0	1778.0
42.5°	1656.9	1669.0	1683.8	1693.2	1695.9
45°	1558.6	1582.8	1601.7	1608.4	1611.1
47.5°	1477.9	1504.8	1507.5	1523.6	1527.7
50°	1391.7	1411.9	1418.6	1437.5	1434.8
52.5°	1296.2	1320.4	1336.5	1341.9	1343.3
55°	1204.6	1220.8	1238.3	1251.7	1250.4
57.5°	1111.8	1125.2	1140.0	1160.2	1161.6
60°	1014.8	1031.0	1047.2	1067.3	1121.2
62.5°	920.6	930.1	948.9	987.9	983.9
65°	823.7	831.8	856.0	885.6	891.0
67.5°	718.7	734.9	771.2	790.1	792.8
70°	625.9	640.7	673.0	697.2	702.6
72.5°	527.6	545.1	580.1	611.1	619.1
75°	436.1	459.0	494.0	526.3	534.3
77.5°	341.9	371.5	413.2	491.3	453.6
80°	258.4	292.1	354.0	363.4	367.4
82.5°	184.4	220.7	265.2	297.5	308.2
85°	118.4	157.5	204.6	234.2	243.6
87.5°	66.0	103.6	153.4	183.0	191.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)