

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-LD5-16-W-ASYWG-UNV-L850-CD2-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-LD5-16-W-ASYWG-UNV-L850-CD2-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: 13290.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

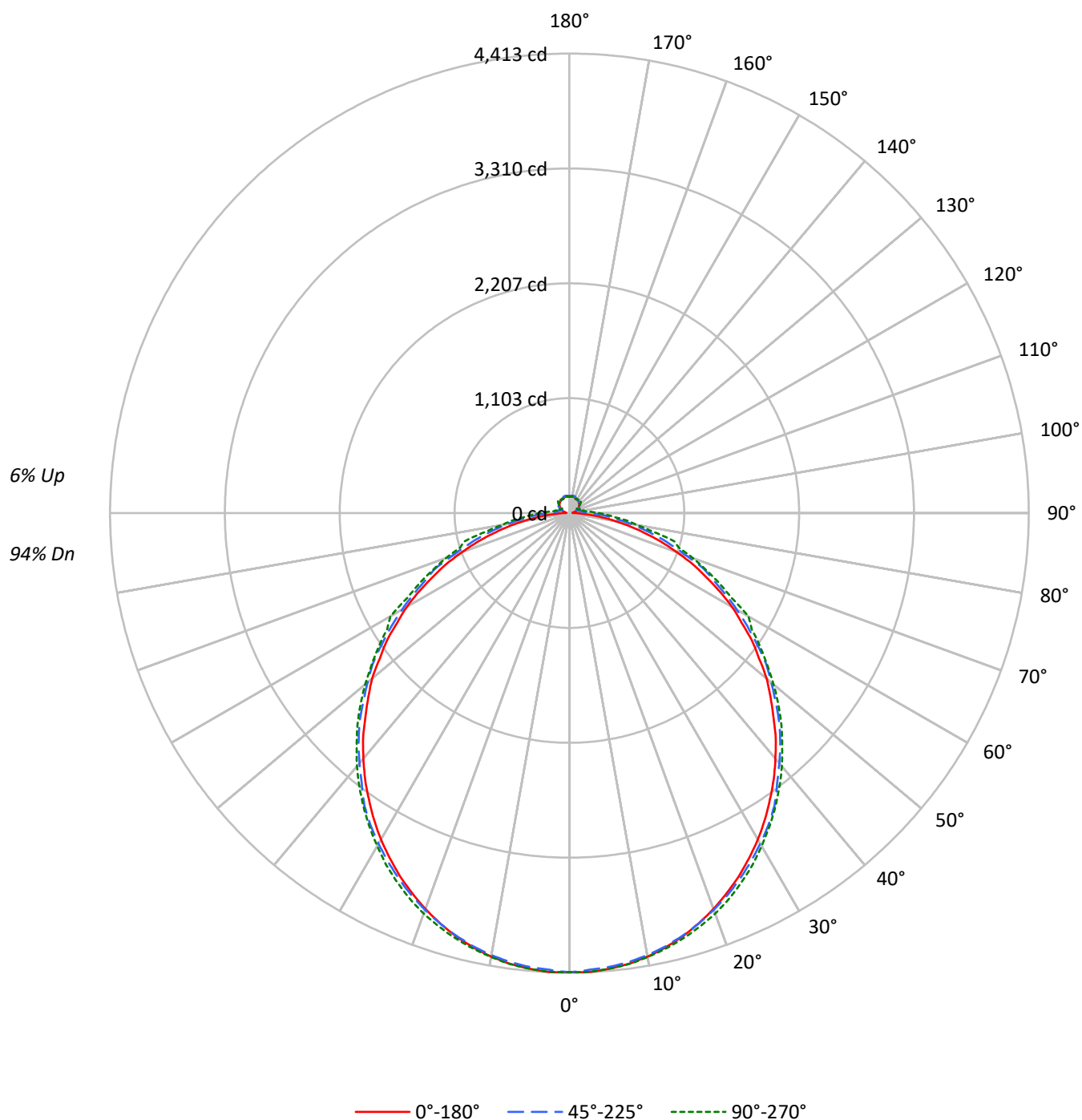
Input Watts (W): 126.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12948	12948	12948
5°	12919	12791	12824
10°	12837	12639	12665
15°	12706	12452	12485
20°	12525	12247	12302
25°	12323	12022	12058
30°	12097	11783	11777
35°	11826	11537	11479
40°	11553	11134	11148
45°	11227	10815	10776
50°	10977	10386	10347
55°	10597	9919	9905
60°	10166	9368	9809
65°	9521	8800	8910
70°	8807	8145	8317
75°	7870	7394	8408
80°	6695	6629	6882
85°	5286	5974	6452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.9	3.1
10°-20°	1188.7	8.9
20°-30°	1788.4	13.5
30°-40°	2137.4	16.1
40°-50°	2192.8	16.5
50°-60°	1967.7	14.8
60°-70°	1511.9	11.4
70°-80°	925.1	7.0
80°-90°	392.3	3.0
90°-100°	138.1	1.0
100°-110°	96.6	0.7
110°-120°	90.1	0.7
120°-130°	105.0	0.8
130°-140°	111.1	0.8
140°-150°	94.0	0.7
150°-160°	71.7	0.5
160°-170°	46.6	0.4
170°-180°	15.6	0.1
0°-30°	3393.9	25.5
0°-40°	5531.4	41.6
0°-60°	9691.9	72.9
0°-90°	12521.2	94.2
90°-120°	324.8	2.4
90°-150°	634.9	4.8
90°-180°	769.0	5.8
0°-180°	13290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4410	4410	4410	4410	4410	
5°	4394	4394	4376	4394	4394	417
15°	4209	4211	4201	4223	4228	1186
25°	3849	3856	3876	3910	3912	1773
35°	3358	3402	3433	3440	3448	2102
45°	2772	2820	2852	2874	2879	2143
55°	2144	2164	2200	2232	2237	1911
65°	1444	1471	1524	1573	1583	1435
75°	759	800	883	934	1043	808
85°	202	275	370	418	430	216
90°	39	109	209	265	277	30
95°	32	75	129	173	180	29
105°	61	58	88	139	129	64
115°	90	100	75	88	92	90
125°	114	114	136	117	97	102
135°	134	131	144	160	156	103
145°	146	151	144	151	158	92
155°	156	165	156	148	148	72
165°	160	165	170	165	160	45
175°	163	163	163	163	158	16
180°	160	160	160	160	160	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4410.5	4410.5	4410.5	4410.5	4410.5
2.5°	4412.9	4410.5	4391.0	4405.6	4410.5
5°	4393.5	4393.5	4376.5	4393.5	4393.5
7.5°	4366.7	4364.3	4349.7	4364.3	4369.2
10°	4325.4	4325.4	4310.8	4327.8	4330.3
12.5°	4271.9	4274.3	4262.2	4279.2	4284.1
15°	4208.7	4211.1	4201.4	4223.3	4228.1
17.5°	4130.9	4135.8	4133.3	4157.6	4164.9
20°	4045.8	4060.4	4055.5	4087.1	4094.4
22.5°	3951.0	3960.7	3970.4	4004.5	4009.3
25°	3848.9	3856.1	3875.6	3909.6	3912.1
27.5°	3737.0	3756.5	3773.5	3800.2	3810.0
30°	3620.3	3647.0	3666.5	3690.8	3693.2
32.5°	3493.9	3530.3	3554.7	3566.8	3574.1
35°	3357.7	3401.5	3433.1	3440.4	3447.7
37.5°	3224.0	3270.2	3277.5	3311.5	3314.0
40°	3078.1	3131.6	3136.5	3168.1	3175.4
42.5°	2934.7	2963.8	2997.9	3027.1	3024.6
45°	2771.8	2820.4	2852.0	2873.9	2878.7
47.5°	2621.0	2676.9	2686.7	2713.4	2723.1
50°	2475.1	2518.9	2531.1	2565.1	2560.2
52.5°	2297.6	2346.3	2382.7	2394.9	2394.9
55°	2144.5	2163.9	2200.4	2232.0	2236.9
57.5°	1962.1	1993.7	2027.8	2071.5	2076.4
60°	1806.5	1830.8	1857.6	1930.5	1986.4
62.5°	1624.2	1648.5	1687.4	1748.2	1748.2
65°	1444.2	1471.0	1524.5	1573.1	1582.8
67.5°	1281.3	1305.6	1395.6	1407.8	1415.1
70°	1096.5	1128.2	1196.2	1242.4	1259.4
72.5°	928.8	958.0	1030.9	1089.3	1099.0
75°	758.6	799.9	882.6	933.6	1043.1
77.5°	603.0	654.0	731.8	792.6	814.5
80°	452.2	508.2	603.0	649.2	658.9
82.5°	313.6	386.6	469.3	537.3	554.4
85°	201.8	274.7	369.6	418.2	430.4
87.5°	107.0	184.8	277.2	335.5	350.1
90°	38.9	109.4	209.1	265.0	277.2
92.5°	34.0	77.8	158.0	206.7	218.8
95°	31.6	75.4	128.9	172.6	179.9
97.5°	36.5	65.6	114.3	136.2	143.5
100°	43.8	58.4	109.4	131.3	138.6
102.5°	51.1	53.5	99.7	119.1	119.1
105°	60.8	58.4	87.5	138.6	128.9
107.5°	68.1	77.8	85.1	102.1	111.8
110°	77.8	85.1	75.4	97.3	99.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.1	94.8	75.4	94.8	94.8
115°	90.0	99.7	75.4	87.5	92.4
117.5°	97.3	102.1	94.8	85.1	85.1
120°	104.5	104.5	116.7	82.7	82.7
122.5°	109.4	109.4	124.0	92.4	82.7
125°	114.3	114.3	136.2	116.7	97.3
127.5°	119.1	119.1	141.0	133.7	121.6
130°	124.0	121.6	145.9	143.5	136.2
132.5°	128.9	126.4	145.9	150.7	145.9
135°	133.7	131.3	143.5	160.5	155.6
137.5°	136.2	136.2	141.0	162.9	162.9
140°	141.0	141.0	141.0	160.5	167.8
142.5°	143.5	145.9	143.5	155.6	162.9
145°	145.9	150.7	143.5	150.7	158.0
147.5°	148.3	155.6	143.5	150.7	150.7
150°	153.2	158.0	145.9	148.3	150.7
152.5°	153.2	162.9	150.7	148.3	148.3
155°	155.6	165.3	155.6	148.3	148.3
157.5°	158.0	165.3	158.0	150.7	148.3
160°	158.0	167.8	162.9	155.6	150.7
162.5°	160.5	167.8	167.8	160.5	155.6
165°	160.5	165.3	170.2	165.3	160.5
167.5°	160.5	165.3	170.2	167.8	162.9
170°	162.9	165.3	167.8	167.8	162.9
172.5°	162.9	162.9	165.3	165.3	162.9
175°	162.9	162.9	162.9	162.9	158.0
177.5°	162.9	162.9	162.9	160.5	155.6
180°	160.5	160.5	160.5	160.5	160.5

(END OF REPORT)