

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-LD5-14-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: 8ILED-LD5-14-W-ASYWG-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

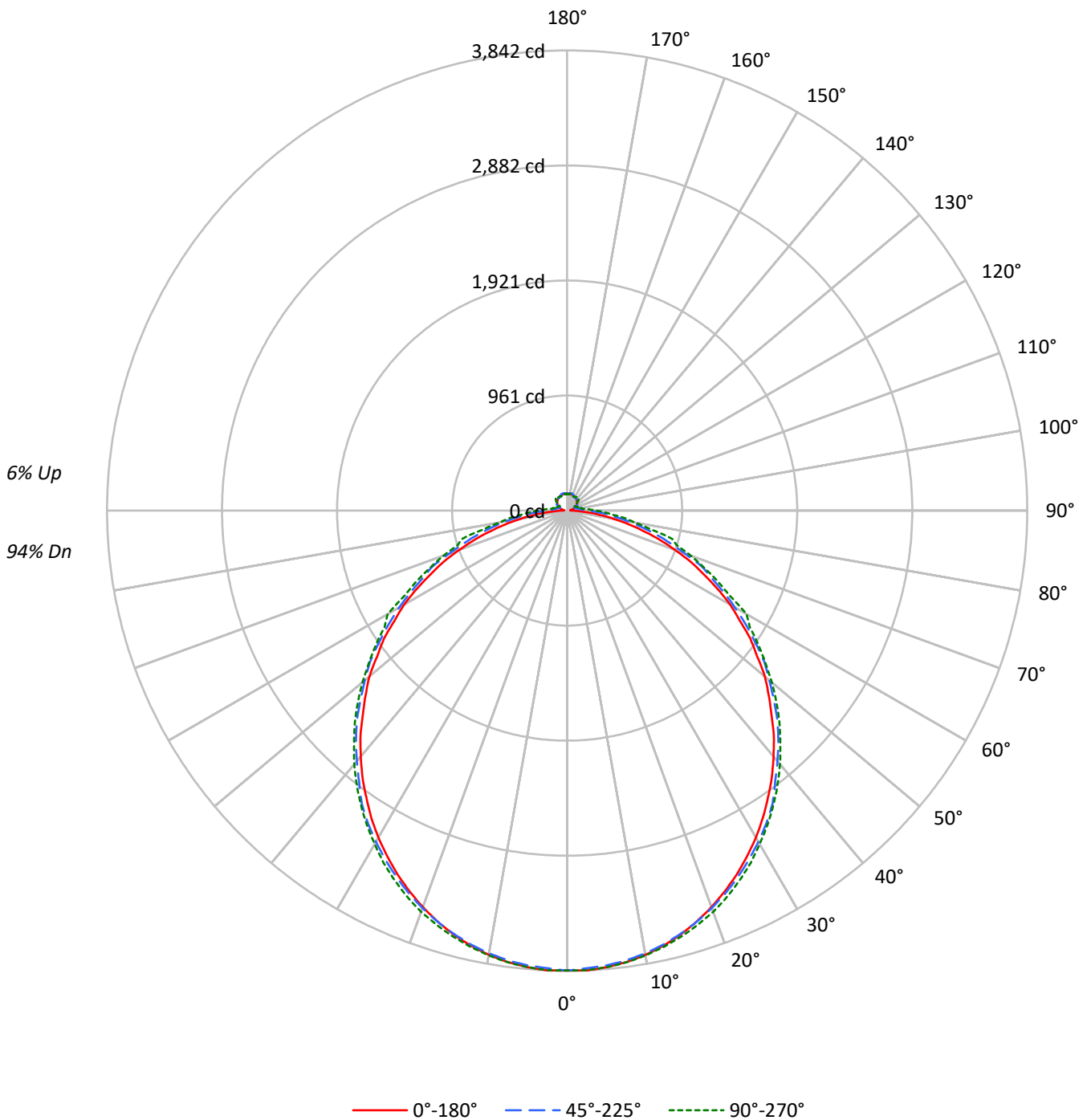
Lumens per Lamp: N/A
Luminaire Lumens: 11572.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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°	5637	5637	5637
5°	5630	5573	5583
10°	5601	5511	5514
15°	5550	5434	5436
20°	5478	5349	5356
25°	5396	5255	5250
30°	5304	5155	5127
35°	5193	5052	4997
40°	5082	4881	4854
45°	4948	4747	4691
50°	4849	4565	4505
55°	4695	4367	4312
60°	4520	4133	4271
65°	4253	3893	3879
70°	3962	3616	3621
75°	3579	3300	3660
80°	3108	2983	2996
85°	2589	2733	2808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	3.1
10°-20°	1035.1	8.9
20°-30°	1557.2	13.5
30°-40°	1861.1	16.1
40°-50°	1909.4	16.5
50°-60°	1713.3	14.8
60°-70°	1316.5	11.4
70°-80°	805.5	7.0
80°-90°	341.6	3.0
90°-100°	120.2	1.0
100°-110°	84.1	0.7
110°-120°	78.5	0.7
120°-130°	91.4	0.8
130°-140°	96.8	0.8
140°-150°	81.9	0.7
150°-160°	62.5	0.5
160°-170°	40.5	0.4
170°-180°	13.6	0.1
0°-30°	2955.2	25.5
0°-40°	4816.3	41.6
0°-60°	8439.0	72.9
0°-90°	10902.6	94.2
90°-120°	282.8	2.4
90°-150°	552.8	4.8
90°-180°	669.0	5.8
0°-180°	11572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3840	3840	3840	3840	3840	
5°	3826	3826	3811	3826	3826	363
15°	3665	3667	3658	3677	3682	1033
25°	3351	3358	3375	3404	3406	1544
35°	2924	2962	2989	2996	3002	1830
45°	2414	2456	2483	2502	2507	1866
55°	1867	1884	1916	1944	1948	1664
65°	1258	1281	1327	1370	1378	1250
75°	660	696	768	813	908	704
85°	176	239	322	364	375	188
90°	34	95	182	231	241	26
95°	28	66	112	150	157	25
105°	53	51	76	121	112	55
115°	78	87	66	76	80	78
125°	100	100	119	102	85	89
135°	116	114	125	140	136	89
145°	127	131	125	131	138	80
155°	136	144	136	129	129	63
165°	140	144	148	144	140	40
175°	142	142	142	142	138	14
180°	140	140	140	140	140	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3840.4	3840.4	3840.4	3840.4	3840.4
2.5°	3842.5	3840.4	3823.4	3836.1	3840.4
5°	3825.5	3825.5	3810.7	3825.5	3825.5
7.5°	3802.2	3800.1	3787.4	3800.1	3804.4
10°	3766.3	3766.3	3753.6	3768.4	3770.5
12.5°	3719.7	3721.8	3711.2	3726.0	3730.3
15°	3664.6	3666.8	3658.3	3677.3	3681.6
17.5°	3596.9	3601.1	3599.0	3620.2	3626.5
20°	3522.8	3535.5	3531.3	3558.8	3565.1
22.5°	3440.2	3448.7	3457.2	3486.8	3491.0
25°	3351.3	3357.7	3374.6	3404.2	3406.4
27.5°	3253.9	3270.9	3285.7	3309.0	3317.4
30°	3152.3	3175.6	3192.5	3213.7	3215.8
32.5°	3042.2	3074.0	3095.1	3105.7	3112.1
35°	2923.7	2961.8	2989.3	2995.6	3002.0
37.5°	2807.2	2847.5	2853.8	2883.4	2885.6
40°	2680.2	2726.8	2731.0	2758.5	2764.9
42.5°	2555.3	2580.7	2610.3	2635.7	2633.6
45°	2413.5	2455.8	2483.3	2502.4	2506.6
47.5°	2282.2	2330.9	2339.4	2362.6	2371.1
50°	2155.2	2193.3	2203.9	2233.5	2229.3
52.5°	2000.6	2043.0	2074.7	2085.3	2085.3
55°	1867.3	1884.2	1915.9	1943.5	1947.7
57.5°	1708.5	1736.0	1765.6	1803.7	1808.0
60°	1573.0	1594.1	1617.4	1680.9	1729.6
62.5°	1414.2	1435.4	1469.2	1522.2	1522.2
65°	1257.5	1280.8	1327.4	1369.7	1378.2
67.5°	1115.7	1136.9	1215.2	1225.8	1232.1
70°	954.8	982.3	1041.6	1081.8	1096.6
72.5°	808.7	834.1	897.6	948.4	956.9
75°	660.5	696.5	768.5	813.0	908.2
77.5°	525.0	569.5	637.2	690.2	709.2
80°	393.8	442.5	525.0	565.3	573.7
82.5°	273.1	336.6	408.6	467.9	482.7
85°	175.7	239.2	321.8	364.1	374.7
87.5°	93.2	160.9	241.3	292.2	304.9
90°	33.9	95.3	182.1	230.8	241.3
92.5°	29.6	67.7	137.6	180.0	190.5
95°	27.5	65.6	112.2	150.3	156.7
97.5°	31.8	57.2	99.5	118.6	124.9
100°	38.1	50.8	95.3	114.3	120.7
102.5°	44.5	46.6	86.8	103.7	103.7
105°	52.9	50.8	76.2	120.7	112.2
107.5°	59.3	67.7	74.1	88.9	97.4
110°	67.7	74.1	65.6	84.7	86.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.1	82.6	65.6	82.6	82.6
115°	78.3	86.8	65.6	76.2	80.4
117.5°	84.7	88.9	82.6	74.1	74.1
120°	91.0	91.0	101.6	72.0	72.0
122.5°	95.3	95.3	108.0	80.4	72.0
125°	99.5	99.5	118.6	101.6	84.7
127.5°	103.7	103.7	122.8	116.4	105.9
130°	108.0	105.9	127.0	124.9	118.6
132.5°	112.2	110.1	127.0	131.3	127.0
135°	116.4	114.3	124.9	139.7	135.5
137.5°	118.6	118.6	122.8	141.8	141.8
140°	122.8	122.8	122.8	139.7	146.1
142.5°	124.9	127.0	124.9	135.5	141.8
145°	127.0	131.3	124.9	131.3	137.6
147.5°	129.1	135.5	124.9	131.3	131.3
150°	133.4	137.6	127.0	129.1	131.3
152.5°	133.4	141.8	131.3	129.1	129.1
155°	135.5	144.0	135.5	129.1	129.1
157.5°	137.6	144.0	137.6	131.3	129.1
160°	137.6	146.1	141.8	135.5	131.3
162.5°	139.7	146.1	146.1	139.7	135.5
165°	139.7	144.0	148.2	144.0	139.7
167.5°	139.7	144.0	148.2	146.1	141.8
170°	141.8	144.0	146.1	146.1	141.8
172.5°	141.8	141.8	144.0	144.0	141.8
175°	141.8	141.8	141.8	141.8	137.6
177.5°	141.8	141.8	141.8	139.7	135.5
180°	139.7	139.7	139.7	139.7	139.7

(END OF REPORT)