

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-LD5-18-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-LD5-18-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

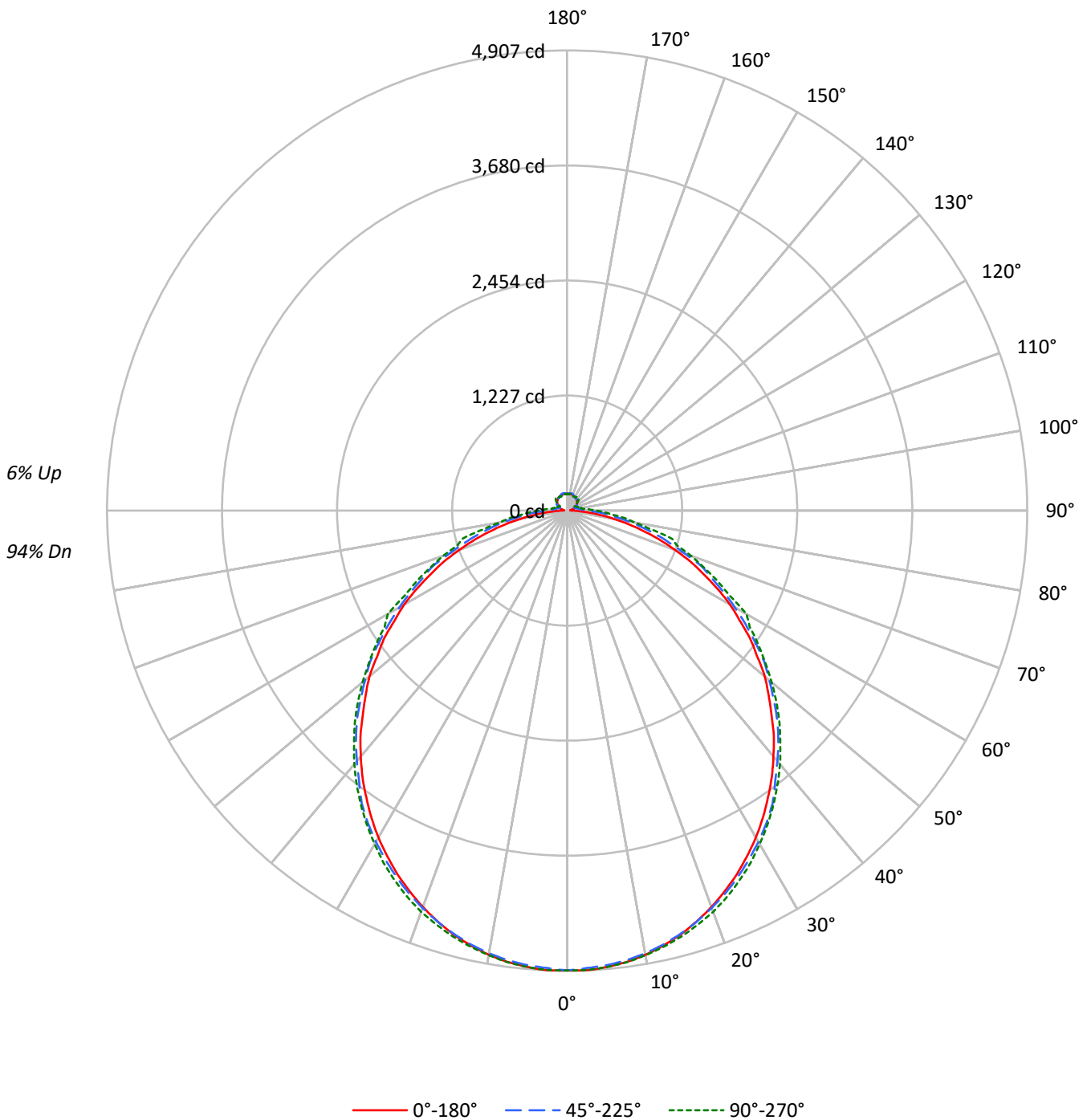
Lumens per Lamp: N/A
Luminaire Lumens: 14778.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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	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°	7199	7199	7199
5°	7190	7117	7130
10°	7153	7038	7041
15°	7088	6939	6941
20°	6995	6830	6840
25°	6891	6710	6704
30°	6774	6583	6548
35°	6632	6452	6382
40°	6490	6233	6198
45°	6319	6062	5991
50°	6193	5829	5753
55°	5995	5577	5507
60°	5772	5278	5454
65°	5432	4971	4954
70°	5059	4618	4624
75°	4570	4214	4674
80°	3969	3810	3826
85°	3307	3490	3586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	3.1
10°-20°	1321.8	8.9
20°-30°	1988.6	13.5
30°-40°	2376.8	16.1
40°-50°	2438.4	16.5
50°-60°	2188.0	14.8
60°-70°	1681.2	11.4
70°-80°	1028.7	7.0
80°-90°	436.2	3.0
90°-100°	153.6	1.0
100°-110°	107.4	0.7
110°-120°	100.2	0.7
120°-130°	116.7	0.8
130°-140°	123.6	0.8
140°-150°	104.5	0.7
150°-160°	79.8	0.5
160°-170°	51.8	0.4
170°-180°	17.4	0.1
0°-30°	3773.9	25.5
0°-40°	6150.7	41.6
0°-60°	10777.1	72.9
0°-90°	13923.1	94.2
90°-120°	361.1	2.4
90°-150°	706.0	4.8
90°-180°	855.0	5.8
0°-180°	14778.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4904	4904	4904	4904	4904	
5°	4885	4885	4866	4885	4885	464
15°	4680	4683	4672	4696	4702	1319
25°	4280	4288	4310	4347	4350	1971
35°	3734	3782	3818	3826	3834	2337
45°	3082	3136	3171	3196	3201	2383
55°	2385	2406	2447	2482	2487	2125
65°	1606	1636	1695	1749	1760	1596
75°	844	890	981	1038	1160	899
85°	224	306	411	465	478	240
90°	43	122	232	295	308	33
95°	35	84	143	192	200	32
105°	68	65	97	154	143	71
115°	100	111	84	97	103	100
125°	127	127	151	130	108	114
135°	149	146	160	178	173	114
145°	162	168	160	168	176	102
155°	173	184	173	165	165	80
165°	178	184	189	184	178	51
175°	181	181	181	181	176	17
180°	178	178	178	178	178	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-ASYWG-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4904.3	4904.3	4904.3	4904.3	4904.3
2.5°	4907.0	4904.3	4882.7	4898.9	4904.3
5°	4885.4	4885.4	4866.5	4885.4	4885.4
7.5°	4855.7	4852.9	4836.7	4852.9	4858.4
10°	4809.7	4809.7	4793.5	4812.4	4815.1
12.5°	4750.2	4752.9	4739.4	4758.3	4763.7
15°	4679.9	4682.6	4671.8	4696.1	4701.5
17.5°	4593.4	4598.8	4596.1	4623.1	4631.3
20°	4498.8	4515.0	4509.6	4544.7	4552.8
22.5°	4393.3	4404.2	4415.0	4452.8	4458.2
25°	4279.8	4287.9	4309.5	4347.4	4350.1
27.5°	4155.4	4177.0	4196.0	4225.7	4236.5
30°	4025.6	4055.4	4077.0	4104.1	4106.8
32.5°	3885.1	3925.6	3952.7	3966.2	3974.3
35°	3733.7	3782.3	3817.5	3825.6	3833.7
37.5°	3585.0	3636.3	3644.4	3682.3	3685.0
40°	3422.7	3482.2	3487.6	3522.8	3530.9
42.5°	3263.2	3295.7	3333.5	3366.0	3363.3
45°	3082.1	3136.2	3171.3	3195.6	3201.1
47.5°	2914.5	2976.7	2987.5	3017.2	3028.0
50°	2752.3	2800.9	2814.4	2852.3	2846.9
52.5°	2554.9	2609.0	2649.5	2663.0	2663.0
55°	2384.6	2406.2	2446.8	2481.9	2487.3
57.5°	2181.8	2216.9	2254.8	2303.5	2308.9
60°	2008.8	2035.8	2065.5	2146.7	2208.8
62.5°	1806.0	1833.0	1876.3	1943.9	1943.9
65°	1605.9	1635.7	1695.2	1749.2	1760.0
67.5°	1424.8	1451.8	1551.9	1565.4	1573.5
70°	1219.3	1254.5	1330.2	1381.5	1400.5
72.5°	1032.8	1065.2	1146.3	1211.2	1222.0
75°	843.5	889.5	981.4	1038.2	1159.8
77.5°	670.5	727.3	813.8	881.4	905.7
80°	502.9	565.1	670.5	721.9	732.7
82.5°	348.8	429.9	521.8	597.5	616.4
85°	224.4	305.5	410.9	465.0	478.5
87.5°	119.0	205.5	308.2	373.1	389.3
90°	43.3	121.7	232.5	294.7	308.2
92.5°	37.9	86.5	175.7	229.8	243.3
95°	35.1	83.8	143.3	192.0	200.1
97.5°	40.6	73.0	127.1	151.4	159.5
100°	48.7	64.9	121.7	146.0	154.1
102.5°	56.8	59.5	110.8	132.5	132.5
105°	67.6	64.9	97.3	154.1	143.3
107.5°	75.7	86.5	94.6	113.6	124.4
110°	86.5	94.6	83.8	108.1	110.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.6	105.4	83.8	105.4	105.4
115°	100.0	110.8	83.8	97.3	102.7
117.5°	108.1	113.6	105.4	94.6	94.6
120°	116.3	116.3	129.8	91.9	91.9
122.5°	121.7	121.7	137.9	102.7	91.9
125°	127.1	127.1	151.4	129.8	108.1
127.5°	132.5	132.5	156.8	148.7	135.2
130°	137.9	135.2	162.2	159.5	151.4
132.5°	143.3	140.6	162.2	167.6	162.2
135°	148.7	146.0	159.5	178.4	173.0
137.5°	151.4	151.4	156.8	181.1	181.1
140°	156.8	156.8	156.8	178.4	186.5
142.5°	159.5	162.2	159.5	173.0	181.1
145°	162.2	167.6	159.5	167.6	175.7
147.5°	164.9	173.0	159.5	167.6	167.6
150°	170.3	175.7	162.2	164.9	167.6
152.5°	170.3	181.1	167.6	164.9	164.9
155°	173.0	183.8	173.0	164.9	164.9
157.5°	175.7	183.8	175.7	167.6	164.9
160°	175.7	186.5	181.1	173.0	167.6
162.5°	178.4	186.5	186.5	178.4	173.0
165°	178.4	183.8	189.3	183.8	178.4
167.5°	178.4	183.8	189.3	186.5	181.1
170°	181.1	183.8	186.5	186.5	181.1
172.5°	181.1	181.1	183.8	183.8	181.1
175°	181.1	181.1	181.1	181.1	175.7
177.5°	181.1	181.1	181.1	178.4	173.0
180°	178.4	178.4	178.4	178.4	178.4

(END OF REPORT)