

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-L835-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-L835-CD2-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

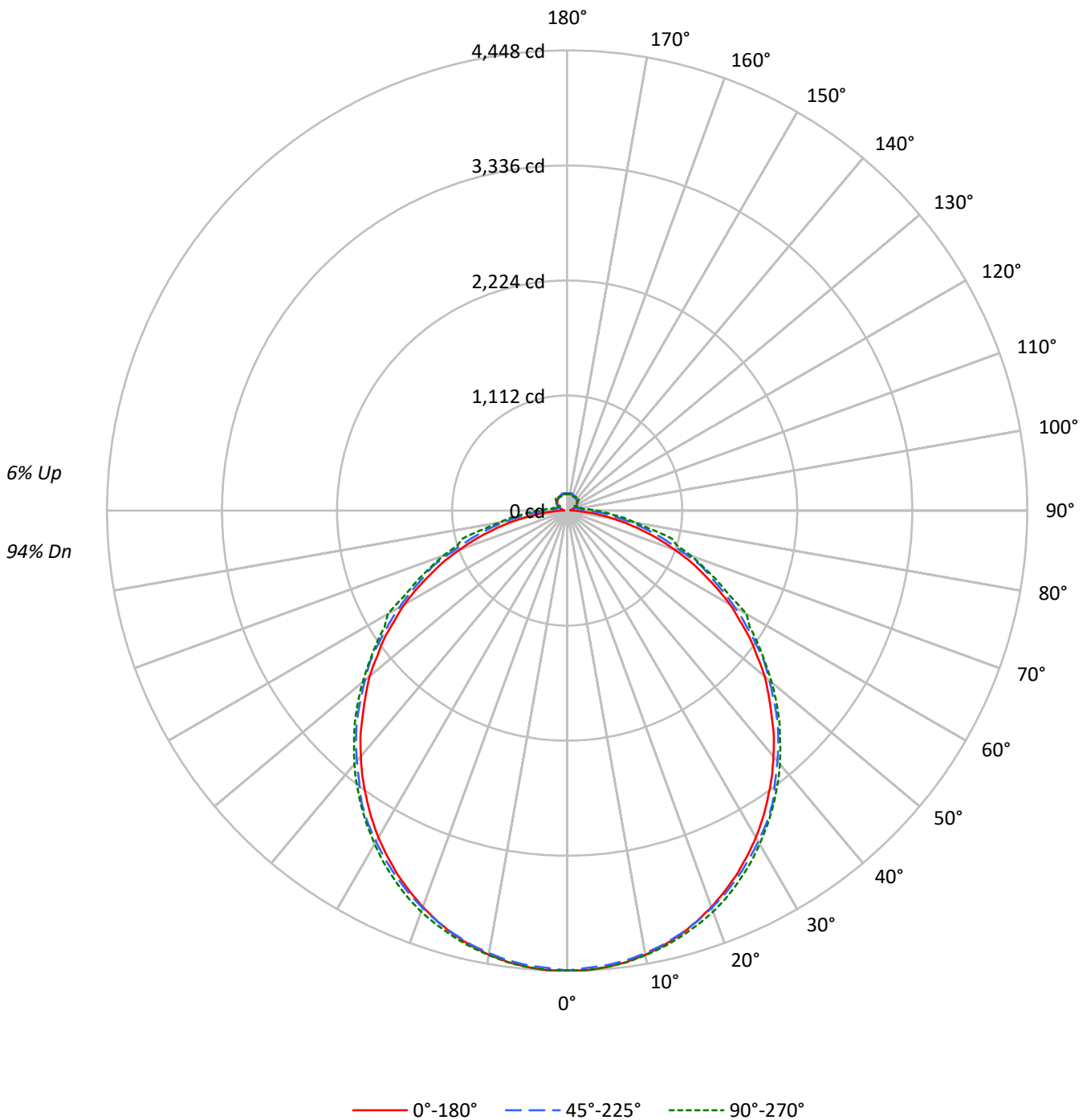
Lumens per Lamp: N/A
Luminaire Lumens: 13394.1 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
Input Voltage (V):
Input Current (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°	6524	6524	6524
5°	6517	6450	6462
10°	6483	6379	6382
15°	6424	6289	6291
20°	6340	6191	6199
25°	6246	6082	6076
30°	6140	5967	5935
35°	6011	5848	5784
40°	5882	5649	5618
45°	5727	5494	5430
50°	5613	5284	5214
55°	5434	5054	4991
60°	5231	4783	4943
65°	4923	4505	4490
70°	4585	4185	4191
75°	4142	3819	4237
80°	3598	3453	3468
85°	2997	3164	3251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	3.1
10°-20°	1198.0	8.9
20°-30°	1802.4	13.5
30°-40°	2154.2	16.1
40°-50°	2210.0	16.5
50°-60°	1983.1	14.8
60°-70°	1523.7	11.4
70°-80°	932.3	7.0
80°-90°	395.4	3.0
90°-100°	139.2	1.0
100°-110°	97.3	0.7
110°-120°	90.9	0.7
120°-130°	105.8	0.8
130°-140°	112.0	0.8
140°-150°	94.7	0.7
150°-160°	72.3	0.5
160°-170°	46.9	0.4
170°-180°	15.7	0.1
0°-30°	3420.5	25.5
0°-40°	5574.7	41.6
0°-60°	9767.7	72.9
0°-90°	12619.2	94.2
90°-120°	327.4	2.4
90°-150°	639.9	4.8
90°-180°	775.0	5.8
0°-180°	13394.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4445	4445	4445	4445	4445	
5°	4428	4428	4411	4428	4428	421
15°	4242	4244	4234	4256	4261	1196
25°	3879	3886	3906	3940	3943	1787
35°	3384	3428	3460	3467	3475	2118
45°	2793	2842	2874	2896	2901	2160
55°	2161	2181	2218	2250	2254	1926
65°	1456	1482	1536	1585	1595	1446
75°	764	806	890	941	1051	814
85°	203	277	372	422	434	218
90°	39	110	211	267	279	30
95°	32	76	130	174	181	29
105°	61	59	88	140	130	64
115°	91	100	76	88	93	91
125°	115	115	137	118	98	103
135°	135	132	145	162	157	103
145°	147	152	145	152	159	92
155°	157	167	157	150	150	73
165°	162	167	172	167	162	46
175°	164	164	164	164	159	16
180°	162	162	162	162	162	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-18-W-ASYWG-UNV-L835-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4445.0	4445.0	4445.0	4445.0	4445.0
2.5°	4447.5	4445.0	4425.4	4440.1	4445.0
5°	4427.9	4427.9	4410.7	4427.9	4427.9
7.5°	4400.9	4398.5	4383.8	4398.5	4403.4
10°	4359.2	4359.2	4344.5	4361.7	4364.2
12.5°	4305.3	4307.8	4295.5	4312.7	4317.6
15°	4241.6	4244.1	4234.3	4256.3	4261.2
17.5°	4163.2	4168.1	4165.7	4190.2	4197.5
20°	4077.5	4092.2	4087.3	4119.1	4126.5
22.5°	3981.9	3991.7	4001.5	4035.8	4040.7
25°	3879.0	3886.3	3905.9	3940.2	3942.7
27.5°	3766.3	3785.9	3803.0	3830.0	3839.8
30°	3648.6	3675.6	3695.2	3719.7	3722.1
32.5°	3521.2	3558.0	3582.5	3594.7	3602.1
35°	3384.0	3428.1	3460.0	3467.3	3474.7
37.5°	3249.2	3295.8	3303.1	3337.4	3339.9
40°	3102.2	3156.1	3161.0	3192.9	3200.2
42.5°	2957.6	2987.0	3021.3	3050.7	3048.3
45°	2793.4	2842.5	2874.3	2896.4	2901.3
47.5°	2641.5	2697.9	2707.7	2734.6	2744.4
50°	2494.5	2538.6	2550.9	2585.2	2580.3
52.5°	2315.6	2364.6	2401.4	2413.6	2413.6
55°	2161.2	2180.8	2217.6	2249.5	2254.4
57.5°	1977.5	2009.3	2043.6	2087.7	2092.6
60°	1820.6	1845.1	1872.1	1945.6	2002.0
62.5°	1636.9	1661.4	1700.6	1761.8	1761.8
65°	1455.5	1482.5	1536.4	1585.4	1595.2
67.5°	1291.4	1315.9	1406.5	1418.8	1426.1
70°	1105.1	1137.0	1205.6	1252.2	1269.3
72.5°	936.1	965.5	1039.0	1097.8	1107.6
75°	764.5	806.2	889.5	941.0	1051.2
77.5°	607.7	659.2	737.6	798.8	820.9
80°	455.8	512.1	607.7	654.3	664.1
82.5°	316.1	389.6	472.9	541.5	558.7
85°	203.4	276.9	372.5	421.5	433.7
87.5°	107.8	186.2	279.3	338.2	352.9
90°	39.2	110.3	210.7	267.1	279.3
92.5°	34.3	78.4	159.3	208.3	220.5
95°	31.9	76.0	129.9	174.0	181.3
97.5°	36.8	66.2	115.2	137.2	144.6
100°	44.1	58.8	110.3	132.3	139.7
102.5°	51.5	53.9	100.5	120.1	120.1
105°	61.3	58.8	88.2	139.7	129.9
107.5°	68.6	78.4	85.8	102.9	112.7
110°	78.4	85.8	76.0	98.0	100.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	85.8	95.6	76.0	95.6	95.6
115°	90.7	100.5	76.0	88.2	93.1
117.5°	98.0	102.9	95.6	85.8	85.8
120°	105.4	105.4	117.6	83.3	83.3
122.5°	110.3	110.3	125.0	93.1	83.3
125°	115.2	115.2	137.2	117.6	98.0
127.5°	120.1	120.1	142.1	134.8	122.5
130°	125.0	122.5	147.0	144.6	137.2
132.5°	129.9	127.4	147.0	151.9	147.0
135°	134.8	132.3	144.6	161.7	156.8
137.5°	137.2	137.2	142.1	164.2	164.2
140°	142.1	142.1	142.1	161.7	169.1
142.5°	144.6	147.0	144.6	156.8	164.2
145°	147.0	151.9	144.6	151.9	159.3
147.5°	149.5	156.8	144.6	151.9	151.9
150°	154.4	159.3	147.0	149.5	151.9
152.5°	154.4	164.2	151.9	149.5	149.5
155°	156.8	166.6	156.8	149.5	149.5
157.5°	159.3	166.6	159.3	151.9	149.5
160°	159.3	169.1	164.2	156.8	151.9
162.5°	161.7	169.1	169.1	161.7	156.8
165°	161.7	166.6	171.5	166.6	161.7
167.5°	161.7	166.6	171.5	169.1	164.2
170°	164.2	166.6	169.1	169.1	164.2
172.5°	164.2	164.2	166.6	166.6	164.2
175°	164.2	164.2	164.2	164.2	159.3
177.5°	164.2	164.2	164.2	161.7	156.8
180°	161.7	161.7	161.7	161.7	161.7

(END OF REPORT)