

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-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-LD5-14-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

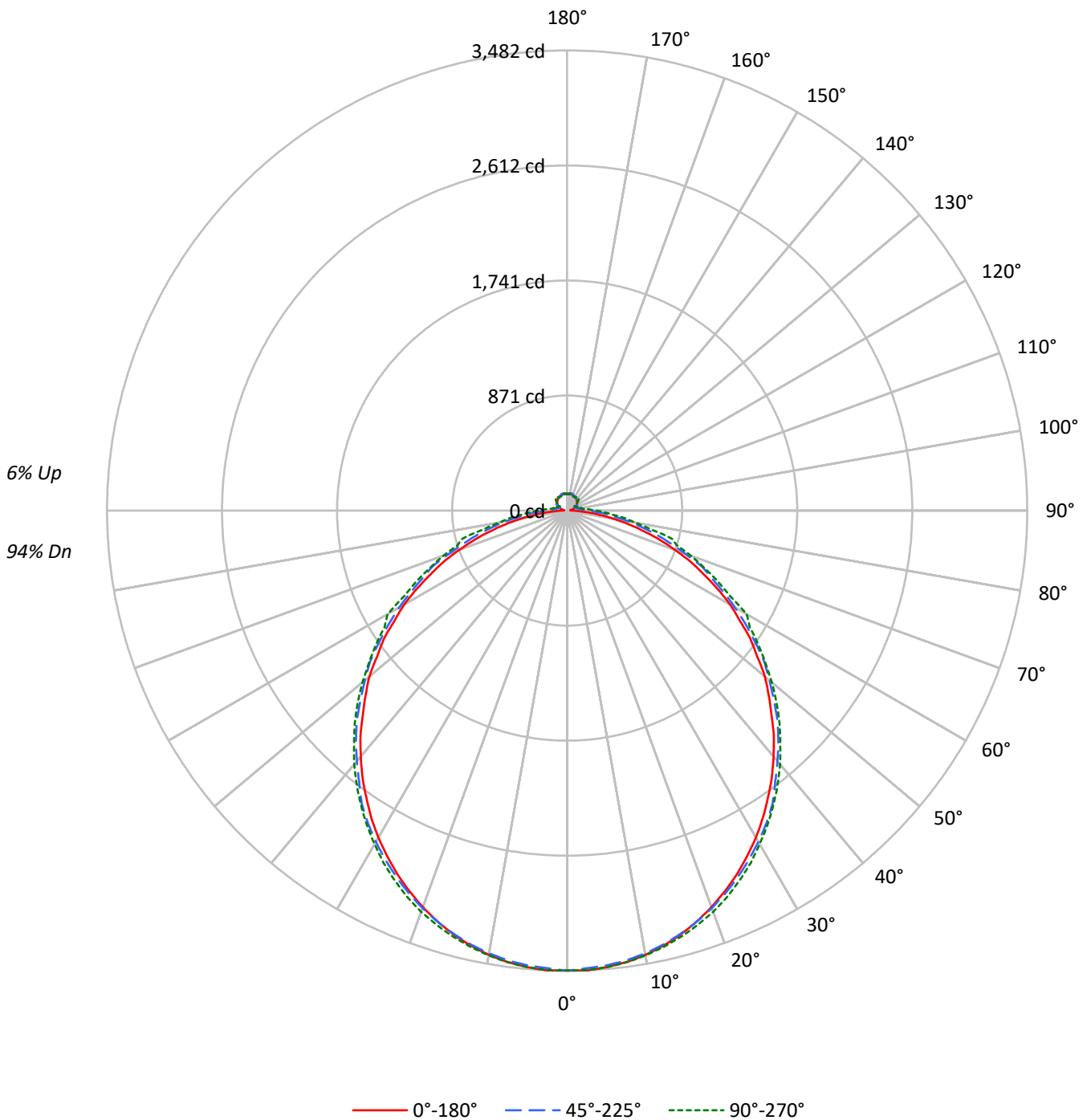
Lumens per Lamp: N/A
Luminaire Lumens: 10488.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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°	5109	5109	5109
5°	5103	5051	5060
10°	5076	4995	4997
15°	5030	4925	4926
20°	4965	4848	4854
25°	4891	4762	4758
30°	4808	4672	4647
35°	4707	4579	4529
40°	4606	4424	4399
45°	4485	4302	4252
50°	4395	4137	4083
55°	4255	3958	3908
60°	4096	3746	3871
65°	3855	3528	3516
70°	3591	3277	3282
75°	3243	2990	3317
80°	2817	2704	2715
85°	2347	2477	2545



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	3.1
10°-20°	938.1	8.9
20°-30°	1411.3	13.5
30°-40°	1686.8	16.1
40°-50°	1730.5	16.5
50°-60°	1552.8	14.8
60°-70°	1193.1	11.4
70°-80°	730.0	7.0
80°-90°	309.6	3.0
90°-100°	109.0	1.0
100°-110°	76.2	0.7
110°-120°	71.1	0.7
120°-130°	82.8	0.8
130°-140°	87.7	0.8
140°-150°	74.2	0.7
150°-160°	56.6	0.5
160°-170°	36.7	0.4
170°-180°	12.3	0.1
0°-30°	2678.4	25.5
0°-40°	4365.2	41.6
0°-60°	7648.5	72.9
0°-90°	9881.3	94.2
90°-120°	256.3	2.4
90°-150°	501.0	4.8
90°-180°	607.0	5.8
0°-180°	10488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3481	3481	3481	3481	3481	
5°	3467	3467	3454	3467	3467	329
15°	3321	3323	3316	3333	3337	936
25°	3037	3043	3058	3085	3087	1399
35°	2650	2684	2709	2715	2721	1659
45°	2187	2226	2251	2268	2272	1691
55°	1692	1708	1736	1761	1765	1508
65°	1140	1161	1203	1241	1249	1133
75°	599	631	696	737	823	638
85°	159	217	292	330	340	171
90°	31	86	165	209	219	24
95°	25	60	102	136	142	23
105°	48	46	69	109	102	50
115°	71	79	60	69	73	71
125°	90	90	107	92	77	81
135°	106	104	113	127	123	81
145°	115	119	113	119	125	72
155°	123	130	123	117	117	57
165°	127	130	134	130	127	36
175°	129	129	129	129	125	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3480.6	3480.6	3480.6	3480.6	3480.6
2.5°	3482.5	3480.6	3465.3	3476.8	3480.6
5°	3467.2	3467.2	3453.7	3467.2	3467.2
7.5°	3446.1	3444.2	3432.6	3444.2	3448.0
10°	3413.5	3413.5	3401.9	3415.4	3417.3
12.5°	3371.2	3373.2	3363.6	3377.0	3380.8
15°	3321.4	3323.3	3315.6	3332.9	3336.7
17.5°	3260.0	3263.8	3261.9	3281.1	3286.8
20°	3192.8	3204.3	3200.5	3225.4	3231.2
22.5°	3118.0	3125.6	3133.3	3160.2	3164.0
25°	3037.4	3043.1	3058.5	3085.3	3087.3
27.5°	2949.1	2964.5	2977.9	2999.0	3006.7
30°	2857.0	2878.1	2893.5	2912.7	2914.6
32.5°	2757.2	2786.0	2805.2	2814.8	2820.6
35°	2649.8	2684.3	2709.3	2715.0	2720.8
37.5°	2544.3	2580.7	2586.5	2613.3	2615.3
40°	2429.1	2471.3	2475.2	2500.1	2505.9
42.5°	2315.9	2339.0	2365.8	2388.8	2386.9
45°	2187.4	2225.7	2250.7	2268.0	2271.8
47.5°	2068.4	2112.5	2120.2	2141.3	2149.0
50°	1953.3	1987.8	1997.4	2024.3	2020.4
52.5°	1813.2	1851.6	1880.4	1890.0	1890.0
55°	1692.3	1707.7	1736.5	1761.4	1765.2
57.5°	1548.4	1573.4	1600.2	1634.8	1638.6
60°	1425.6	1444.8	1465.9	1523.5	1567.6
62.5°	1281.7	1300.9	1331.6	1379.6	1379.6
65°	1139.7	1160.8	1203.1	1241.4	1249.1
67.5°	1011.2	1030.4	1101.4	1111.0	1116.7
70°	865.4	890.3	944.0	980.5	993.9
72.5°	733.0	756.0	813.5	859.6	867.3
75°	598.6	631.3	696.5	736.8	823.1
77.5°	475.8	516.1	577.5	625.5	642.8
80°	356.9	401.0	475.8	512.3	520.0
82.5°	247.5	305.1	370.3	424.0	437.5
85°	159.3	216.8	291.6	330.0	339.6
87.5°	84.4	145.8	218.7	264.8	276.3
90°	30.7	86.3	165.0	209.1	218.7
92.5°	26.9	61.4	124.7	163.1	172.7
95°	24.9	59.5	101.7	136.2	142.0
97.5°	28.8	51.8	90.2	107.4	113.2
100°	34.5	46.0	86.3	103.6	109.4
102.5°	40.3	42.2	78.7	94.0	94.0
105°	48.0	46.0	69.1	109.4	101.7
107.5°	53.7	61.4	67.2	80.6	88.3
110°	61.4	67.2	59.5	76.7	78.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.2	74.8	59.5	74.8	74.8
115°	71.0	78.7	59.5	69.1	72.9
117.5°	76.7	80.6	74.8	67.2	67.2
120°	82.5	82.5	92.1	65.2	65.2
122.5°	86.3	86.3	97.9	72.9	65.2
125°	90.2	90.2	107.4	92.1	76.7
127.5°	94.0	94.0	111.3	105.5	95.9
130°	97.9	95.9	115.1	113.2	107.4
132.5°	101.7	99.8	115.1	119.0	115.1
135°	105.5	103.6	113.2	126.6	122.8
137.5°	107.4	107.4	111.3	128.6	128.6
140°	111.3	111.3	111.3	126.6	132.4
142.5°	113.2	115.1	113.2	122.8	128.6
145°	115.1	119.0	113.2	119.0	124.7
147.5°	117.0	122.8	113.2	119.0	119.0
150°	120.9	124.7	115.1	117.0	119.0
152.5°	120.9	128.6	119.0	117.0	117.0
155°	122.8	130.5	122.8	117.0	117.0
157.5°	124.7	130.5	124.7	119.0	117.0
160°	124.7	132.4	128.6	122.8	119.0
162.5°	126.6	132.4	132.4	126.6	122.8
165°	126.6	130.5	134.3	130.5	126.6
167.5°	126.6	130.5	134.3	132.4	128.6
170°	128.6	130.5	132.4	132.4	128.6
172.5°	128.6	128.6	130.5	130.5	128.6
175°	128.6	128.6	128.6	128.6	124.7
177.5°	128.6	128.6	128.6	126.6	122.8
180°	126.6	126.6	126.6	126.6	126.6

(END OF REPORT)