

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-LD5-28-W-ASYWG-UNV-L840-CD4-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-LD5-28-W-ASYWG-UNV-L840-CD4-U  
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

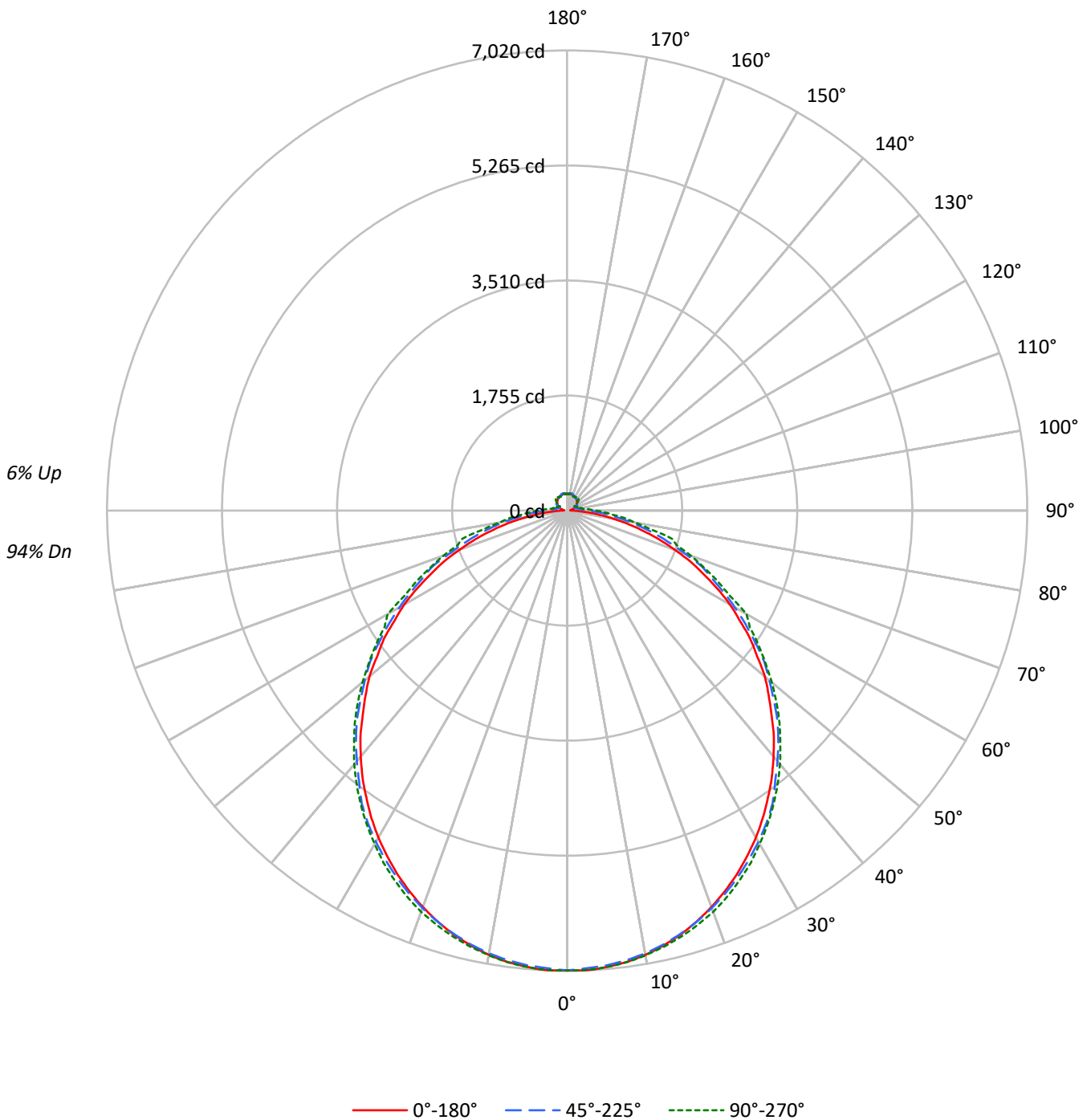
Lumens per Lamp: N/A  
Luminaire Lumens: 21143.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	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°	10299	10299	10299
5°	10287	10182	10201
10°	10234	10069	10074
15°	10141	9928	9931
20°	10008	9772	9786
25°	9859	9601	9592
30°	9692	9419	9368
35°	9489	9231	9131
40°	9286	8918	8868
45°	9040	8673	8572
50°	8860	8340	8231
55°	8577	7979	7879
60°	8258	7551	7803
65°	7772	7112	7088
70°	7238	6607	6616
75°	6539	6029	6688
80°	5679	5451	5474
85°	4730	4994	5131



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.2	3.1
10°-20°	1891.1	8.9
20°-30°	2845.1	13.5
30°-40°	3400.4	16.1
40°-50°	3488.6	16.5
50°-60°	3130.4	14.8
60°-70°	2405.3	11.4
70°-80°	1471.7	7.0
80°-90°	624.1	3.0
90°-100°	219.7	1.0
100°-110°	153.6	0.7
110°-120°	143.4	0.7
120°-130°	167.0	0.8
130°-140°	176.8	0.8
140°-150°	149.6	0.7
150°-160°	114.1	0.5
160°-170°	74.1	0.4
170°-180°	24.8	0.1
0°-30°	5399.4	25.5
0°-40°	8799.8	41.6
0°-60°	15418.8	72.9
0°-90°	19919.9	94.2
90°-120°	516.7	2.4
90°-150°	1010.0	4.8
90°-180°	1223.0	5.8
0°-180°	21143.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7017	7017	7017	7017	7017	
5°	6990	6990	6962	6990	6990	664
15°	6696	6700	6684	6719	6726	1887
25°	6123	6135	6166	6220	6224	2820
35°	5342	5411	5462	5473	5485	3344
45°	4410	4487	4537	4572	4580	3410
55°	3412	3443	3501	3551	3559	3040
65°	2298	2340	2425	2503	2518	2283
75°	1207	1273	1404	1485	1659	1286
85°	321	437	588	665	685	344
90°	62	174	333	422	441	48
95°	50	120	205	275	286	46
105°	97	93	139	220	205	101
115°	143	159	120	139	147	143
125°	182	182	217	186	155	163
135°	213	209	228	255	248	163
145°	232	240	228	240	251	146
155°	248	263	248	236	236	114
165°	255	263	271	263	255	72
175°	259	259	259	259	251	25
180°	255	255	255	255	255	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-28-W-ASYWG-UNV-L840-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7016.6	7016.6	7016.6	7016.6	7016.6
2.5°	7020.5	7016.6	6985.7	7008.9	7016.6
5°	6989.6	6989.6	6962.5	6989.6	6989.6
7.5°	6947.0	6943.1	6919.9	6943.1	6950.9
10°	6881.3	6881.3	6858.1	6885.1	6889.0
12.5°	6796.2	6800.0	6780.7	6807.8	6815.5
15°	6695.6	6699.5	6684.0	6718.8	6726.5
17.5°	6571.8	6579.6	6575.7	6614.4	6626.0
20°	6436.4	6459.6	6451.9	6502.2	6513.8
22.5°	6285.6	6301.1	6316.5	6370.7	6378.4
25°	6123.1	6134.7	6165.7	6219.8	6223.7
27.5°	5945.2	5976.1	6003.2	6045.8	6061.2
30°	5759.5	5802.1	5833.0	5871.7	5875.6
32.5°	5558.4	5616.4	5655.1	5674.4	5686.0
35°	5341.8	5411.4	5461.7	5473.3	5484.9
37.5°	5129.0	5202.5	5214.1	5268.3	5272.2
40°	4897.0	4982.0	4989.8	5040.1	5051.7
42.5°	4668.7	4715.2	4769.3	4815.7	4811.9
45°	4409.6	4486.9	4537.2	4572.0	4579.8
47.5°	4169.8	4258.7	4274.2	4316.7	4332.2
50°	3937.7	4007.3	4026.6	4080.8	4073.1
52.5°	3655.3	3732.7	3790.7	3810.0	3810.0
55°	3411.6	3442.6	3500.6	3550.9	3558.6
57.5°	3121.5	3171.8	3226.0	3295.6	3303.3
60°	2874.0	2912.6	2955.2	3071.2	3160.2
62.5°	2583.9	2622.5	2684.4	2781.1	2781.1
65°	2297.6	2340.2	2425.3	2502.6	2518.1
67.5°	2038.5	2077.1	2220.3	2239.6	2251.2
70°	1744.5	1794.8	1903.1	1976.6	2003.6
72.5°	1477.6	1524.0	1640.1	1732.9	1748.4
75°	1206.8	1272.6	1404.1	1485.3	1659.4
77.5°	959.3	1040.5	1164.3	1261.0	1295.8
80°	719.5	808.4	959.3	1032.8	1048.2
82.5°	499.0	615.0	746.5	854.8	881.9
85°	321.0	437.1	587.9	665.3	684.6
87.5°	170.2	294.0	441.0	533.8	557.0
90°	61.9	174.1	332.7	421.6	441.0
92.5°	54.2	123.8	251.4	328.8	348.1
95°	50.3	119.9	205.0	274.6	286.2
97.5°	58.0	104.4	181.8	216.6	228.2
100°	69.6	92.8	174.1	208.9	220.5
102.5°	81.2	85.1	158.6	189.5	189.5
105°	96.7	92.8	139.2	220.5	205.0
107.5°	108.3	123.8	135.4	162.5	177.9
110°	123.8	135.4	119.9	154.7	158.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	135.4	150.9	119.9	150.9	150.9
115°	143.1	158.6	119.9	139.2	147.0
117.5°	154.7	162.5	150.9	135.4	135.4
120°	166.3	166.3	185.7	131.5	131.5
122.5°	174.1	174.1	197.3	147.0	131.5
125°	181.8	181.8	216.6	185.7	154.7
127.5°	189.5	189.5	224.3	212.7	193.4
130°	197.3	193.4	232.1	228.2	216.6
132.5°	205.0	201.1	232.1	239.8	232.1
135°	212.7	208.9	228.2	255.3	247.6
137.5°	216.6	216.6	224.3	259.2	259.2
140°	224.3	224.3	224.3	255.3	266.9
142.5°	228.2	232.1	228.2	247.6	259.2
145°	232.1	239.8	228.2	239.8	251.4
147.5°	236.0	247.6	228.2	239.8	239.8
150°	243.7	251.4	232.1	236.0	239.8
152.5°	243.7	259.2	239.8	236.0	236.0
155°	247.6	263.0	247.6	236.0	236.0
157.5°	251.4	263.0	251.4	239.8	236.0
160°	251.4	266.9	259.2	247.6	239.8
162.5°	255.3	266.9	266.9	255.3	247.6
165°	255.3	263.0	270.8	263.0	255.3
167.5°	255.3	263.0	270.8	266.9	259.2
170°	259.2	263.0	266.9	266.9	259.2
172.5°	259.2	259.2	263.0	263.0	259.2
175°	259.2	259.2	259.2	259.2	251.4
177.5°	259.2	259.2	259.2	255.3	247.6
180°	255.3	255.3	255.3	255.3	255.3

(END OF REPORT)