

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-LD5-32-W-ASYWG-UNV-L835-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-LD5-32-W-ASYWG-UNV-L835-CD4-U  
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

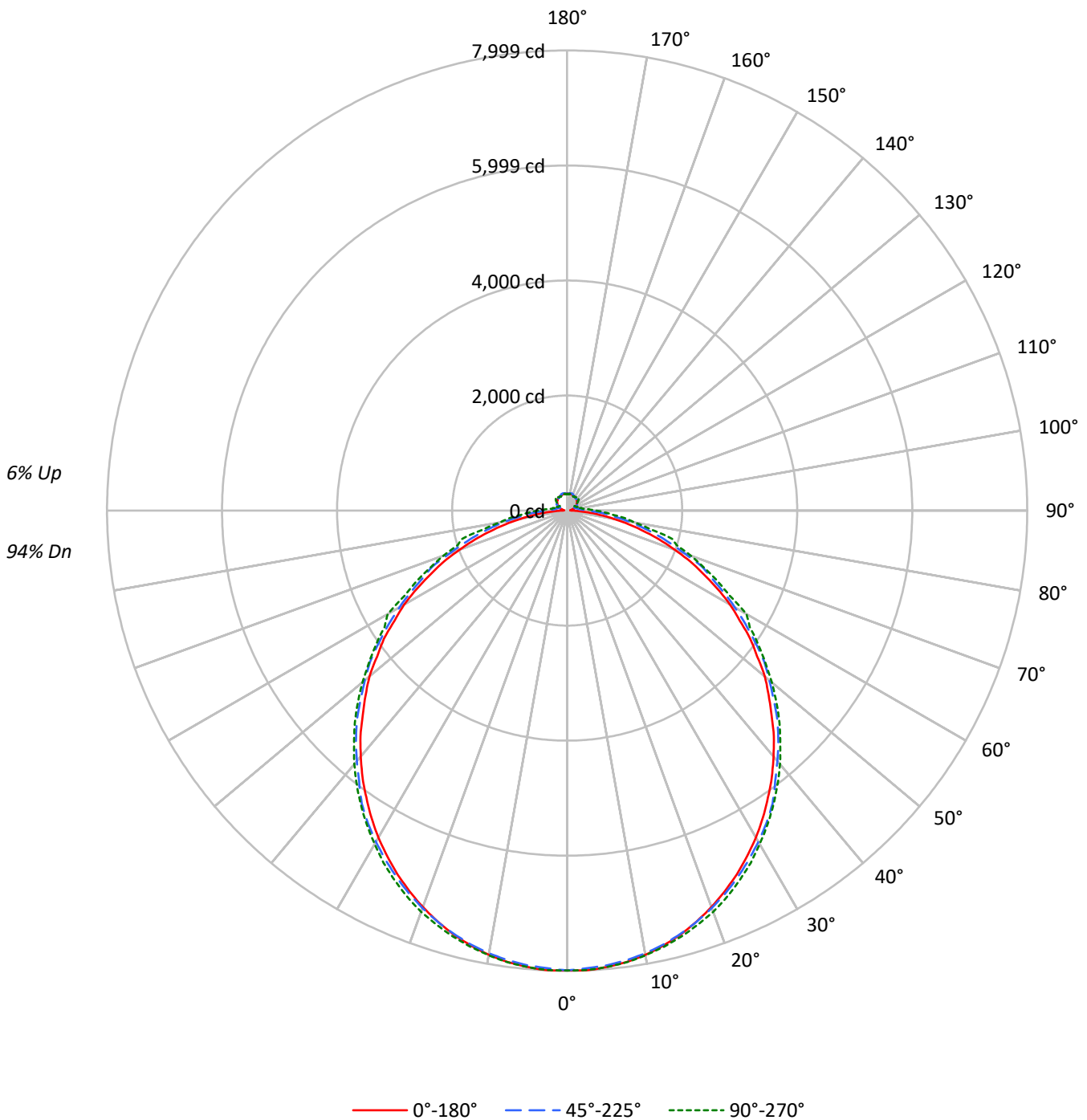
Lumens per Lamp: N/A  
Luminaire Lumens: 24091.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 253.2  
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°	11735	11735	11735
5°	11722	11602	11623
10°	11660	11473	11478
15°	11555	11312	11316
20°	11404	11135	11150
25°	11234	10939	10929
30°	11043	10732	10675
35°	10812	10518	10404
40°	10580	10161	10104
45°	10301	9882	9767
50°	10095	9503	9378
55°	9773	9091	8978
60°	9410	8604	8891
65°	8855	8104	8076
70°	8247	7528	7538
75°	7451	6869	7620
80°	6471	6211	6237
85°	5390	5690	5847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	755.6	3.1
10°-20°	2154.8	8.9
20°-30°	3241.8	13.5
30°-40°	3874.5	16.1
40°-50°	3975.0	16.5
50°-60°	3566.9	14.8
60°-70°	2740.7	11.4
70°-80°	1676.9	7.0
80°-90°	711.1	3.0
90°-100°	250.3	1.0
100°-110°	175.1	0.7
110°-120°	163.4	0.7
120°-130°	190.3	0.8
130°-140°	201.4	0.8
140°-150°	170.4	0.7
150°-160°	130.0	0.5
160°-170°	84.4	0.4
170°-180°	28.3	0.1
0°-30°	6152.3	25.5
0°-40°	10026.8	41.6
0°-60°	17568.7	72.9
0°-90°	22697.4	94.2
90°-120°	588.7	2.4
90°-150°	1150.9	4.8
90°-180°	1394.0	5.8
0°-180°	24091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7995	7995	7995	7995	7995	
5°	7964	7964	7933	7964	7964	756
15°	7629	7634	7616	7656	7664	2150
25°	6977	6990	7025	7087	7092	3214
35°	6087	6166	6223	6236	6250	3810
45°	5024	5113	5170	5210	5218	3885
55°	3887	3923	3989	4046	4055	3464
65°	2618	2666	2763	2852	2869	2602
75°	1375	1450	1600	1692	1891	1465
85°	366	498	670	758	780	392
90°	70	198	379	480	502	54
95°	57	137	234	313	326	53
105°	110	106	159	251	234	115
115°	163	181	137	159	168	163
125°	207	207	247	212	176	186
135°	242	238	260	291	282	186
145°	264	273	260	273	286	166
155°	282	300	282	269	269	130
165°	291	300	308	300	291	82
175°	295	295	295	295	286	28
180°	291	291	291	291	291	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-32-W-ASYWG-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7995.0	7995.0	7995.0	7995.0	7995.0
2.5°	7999.4	7995.0	7959.7	7986.2	7995.0
5°	7964.1	7964.1	7933.3	7964.1	7964.1
7.5°	7915.7	7911.2	7884.8	7911.2	7920.1
10°	7840.7	7840.7	7814.3	7845.1	7849.5
12.5°	7743.8	7748.2	7726.1	7757.0	7765.8
15°	7629.2	7633.6	7615.9	7655.6	7664.4
17.5°	7488.1	7496.9	7492.5	7536.6	7549.8
20°	7333.9	7360.3	7351.5	7408.8	7422.0
22.5°	7162.0	7179.6	7197.2	7259.0	7267.8
25°	6976.9	6990.1	7025.4	7087.1	7091.5
27.5°	6774.1	6809.4	6840.3	6888.7	6906.4
30°	6562.6	6611.1	6646.3	6690.4	6694.8
32.5°	6333.4	6399.5	6443.6	6465.6	6478.8
35°	6086.6	6165.9	6223.2	6236.4	6249.7
37.5°	5844.2	5927.9	5941.1	6002.8	6007.3
40°	5579.7	5676.7	5685.5	5742.8	5756.0
42.5°	5319.7	5372.6	5434.3	5487.2	5482.8
45°	5024.4	5112.6	5169.9	5209.5	5218.3
47.5°	4751.2	4852.5	4870.2	4918.6	4936.3
50°	4486.7	4566.0	4588.1	4649.8	4641.0
52.5°	4165.0	4253.1	4319.2	4341.3	4341.3
55°	3887.3	3922.6	3988.7	4046.0	4054.8
57.5°	3556.8	3614.0	3675.8	3755.1	3763.9
60°	3274.7	3318.8	3367.2	3499.5	3600.8
62.5°	2944.1	2988.2	3058.7	3168.9	3168.9
65°	2618.0	2666.5	2763.4	2851.6	2869.2
67.5°	2322.7	2366.8	2529.8	2551.9	2565.1
70°	1987.7	2045.0	2168.4	2252.2	2283.0
72.5°	1683.6	1736.5	1868.7	1974.5	1992.1
75°	1375.1	1450.0	1599.9	1692.4	1890.8
77.5°	1093.0	1185.6	1326.6	1436.8	1476.5
80°	819.8	921.1	1093.0	1176.8	1194.4
82.5°	568.6	700.8	850.6	974.0	1004.9
85°	365.8	498.0	669.9	758.1	780.1
87.5°	193.9	335.0	502.4	608.2	634.7
90°	70.5	198.3	379.0	480.4	502.4
92.5°	61.7	141.0	286.5	374.6	396.7
95°	57.3	136.6	233.6	312.9	326.1
97.5°	66.1	119.0	207.1	246.8	260.0
100°	79.3	105.8	198.3	238.0	251.2
102.5°	92.6	97.0	180.7	216.0	216.0
105°	110.2	105.8	158.7	251.2	233.6
107.5°	123.4	141.0	154.3	185.1	202.7
110°	141.0	154.3	136.6	176.3	180.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	154.3	171.9	136.6	171.9	171.9
115°	163.1	180.7	136.6	158.7	167.5
117.5°	176.3	185.1	171.9	154.3	154.3
120°	189.5	189.5	211.6	149.9	149.9
122.5°	198.3	198.3	224.8	167.5	149.9
125°	207.1	207.1	246.8	211.6	176.3
127.5°	216.0	216.0	255.6	242.4	220.4
130°	224.8	220.4	264.4	260.0	246.8
132.5°	233.6	229.2	264.4	273.3	264.4
135°	242.4	238.0	260.0	290.9	282.1
137.5°	246.8	246.8	255.6	295.3	295.3
140°	255.6	255.6	255.6	290.9	304.1
142.5°	260.0	264.4	260.0	282.1	295.3
145°	264.4	273.3	260.0	273.3	286.5
147.5°	268.9	282.1	260.0	273.3	273.3
150°	277.7	286.5	264.4	268.9	273.3
152.5°	277.7	295.3	273.3	268.9	268.9
155°	282.1	299.7	282.1	268.9	268.9
157.5°	286.5	299.7	286.5	273.3	268.9
160°	286.5	304.1	295.3	282.1	273.3
162.5°	290.9	304.1	304.1	290.9	282.1
165°	290.9	299.7	308.5	299.7	290.9
167.5°	290.9	299.7	308.5	304.1	295.3
170°	295.3	299.7	304.1	304.1	295.3
172.5°	295.3	295.3	299.7	299.7	295.3
175°	295.3	295.3	295.3	295.3	286.5
177.5°	295.3	295.3	295.3	290.9	282.1
180°	290.9	290.9	290.9	290.9	290.9

(END OF REPORT)