

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-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-LD5-28-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**

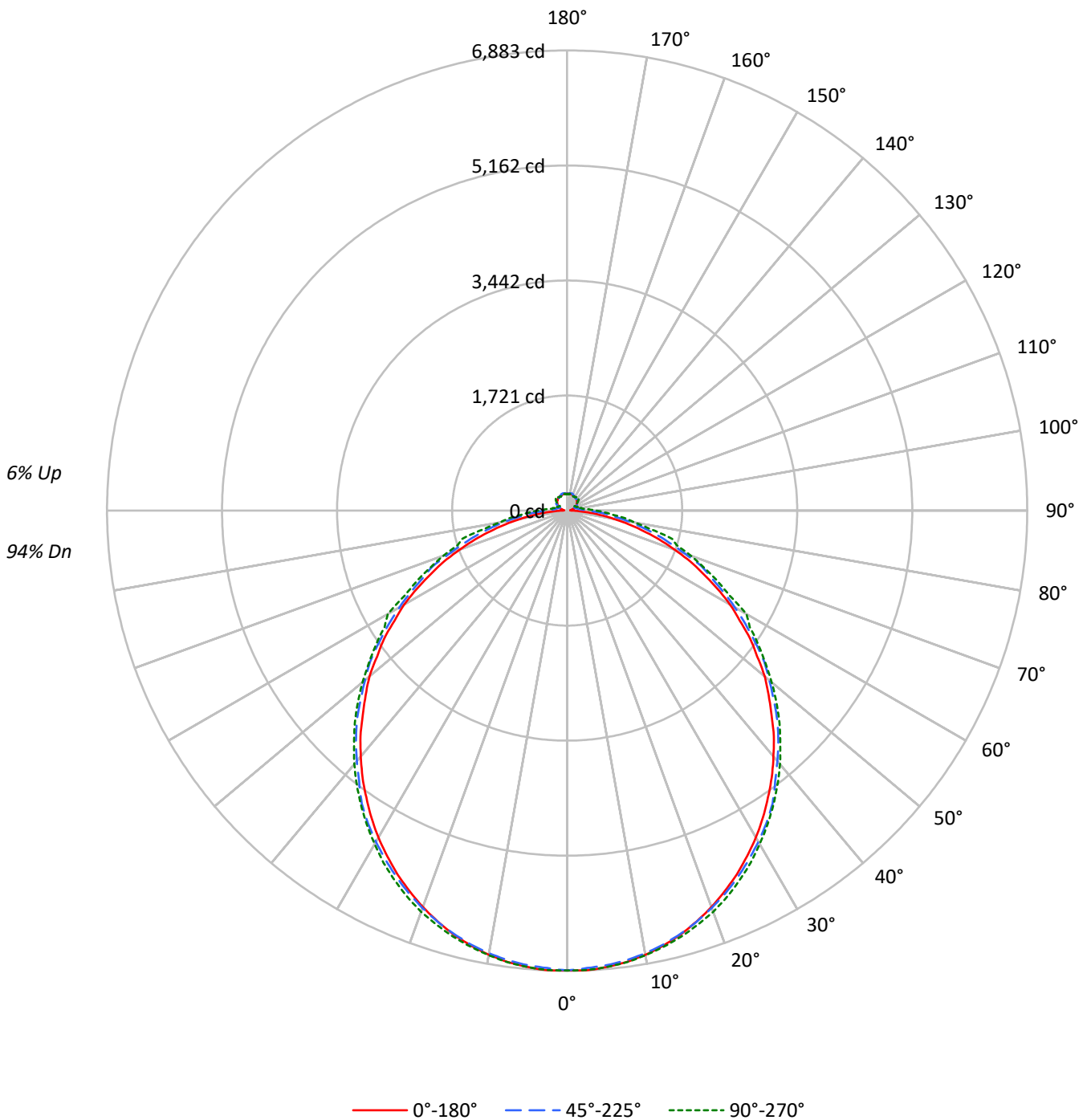
Lumens per Lamp: N/A  
Luminaire Lumens: 20729.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	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°	10097	10097	10097
5°	10086	9983	10001
10°	10033	9872	9877
15°	9942	9734	9737
20°	9812	9581	9594
25°	9666	9413	9404
30°	9502	9234	9185
35°	9303	9050	8952
40°	9104	8743	8694
45°	8863	8503	8404
50°	8686	8177	8070
55°	8409	7822	7725
60°	8096	7403	7650
65°	7619	6973	6949
70°	7096	6477	6486
75°	6411	5910	6557
80°	5568	5344	5367
85°	4639	4896	5031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.2	3.1
10°-20°	1854.1	8.9
20°-30°	2789.4	13.5
30°-40°	3333.8	16.1
40°-50°	3420.3	16.5
50°-60°	3069.1	14.8
60°-70°	2358.2	11.4
70°-80°	1442.9	7.0
80°-90°	611.9	3.0
90°-100°	215.4	1.0
100°-110°	150.6	0.7
110°-120°	140.6	0.7
120°-130°	163.7	0.8
130°-140°	173.3	0.8
140°-150°	146.6	0.7
150°-160°	111.9	0.5
160°-170°	72.6	0.4
170°-180°	24.4	0.1
0°-30°	5293.7	25.5
0°-40°	8627.5	41.6
0°-60°	15116.9	72.9
0°-90°	19529.8	94.2
90°-120°	506.6	2.4
90°-150°	990.3	4.8
90°-180°	1199.0	5.8
0°-180°	20729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6879	6879	6879	6879	6879	
5°	6853	6853	6826	6853	6853	651
15°	6564	6568	6553	6587	6595	1850
25°	6003	6015	6045	6098	6102	2765
35°	5237	5305	5355	5366	5378	3278
45°	4323	4399	4448	4482	4490	3343
55°	3345	3375	3432	3481	3489	2980
65°	2253	2294	2378	2454	2469	2238
75°	1183	1248	1377	1456	1627	1260
85°	315	428	576	652	671	337
90°	61	171	326	413	432	47
95°	49	118	201	269	281	45
105°	95	91	136	216	201	99
115°	140	156	118	136	144	140
125°	178	178	212	182	152	160
135°	209	205	224	250	243	160
145°	228	235	224	235	246	143
155°	243	258	243	231	231	112
165°	250	258	266	258	250	71
175°	254	254	254	254	246	24
180°	250	250	250	250	250	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6879.3	6879.3	6879.3	6879.3	6879.3
2.5°	6883.0	6879.3	6848.9	6871.7	6879.3
5°	6852.7	6852.7	6826.2	6852.7	6852.7
7.5°	6811.0	6807.2	6784.4	6807.2	6814.8
10°	6746.5	6746.5	6723.8	6750.3	6754.1
12.5°	6663.1	6666.9	6647.9	6674.5	6682.0
15°	6564.5	6568.3	6553.1	6587.2	6594.8
17.5°	6443.1	6450.7	6446.9	6484.8	6496.2
20°	6310.4	6333.2	6325.6	6374.9	6386.2
22.5°	6162.5	6177.7	6192.8	6245.9	6253.5
25°	6003.2	6014.6	6044.9	6098.0	6101.8
27.5°	5828.8	5859.1	5885.7	5927.4	5942.5
30°	5646.7	5688.5	5718.8	5756.7	5760.5
32.5°	5449.5	5506.4	5544.4	5563.3	5574.7
35°	5237.2	5305.4	5354.7	5366.1	5377.5
37.5°	5028.6	5100.7	5112.0	5165.1	5168.9
40°	4801.1	4884.5	4892.1	4941.4	4952.8
42.5°	4577.3	4622.8	4675.9	4721.4	4717.6
45°	4323.2	4399.1	4448.4	4482.5	4490.1
47.5°	4088.1	4175.3	4190.5	4232.2	4247.4
50°	3860.6	3928.8	3947.8	4000.9	3993.3
52.5°	3583.7	3659.6	3716.5	3735.4	3735.4
55°	3344.8	3375.2	3432.0	3481.3	3488.9
57.5°	3060.4	3109.7	3162.8	3231.0	3238.6
60°	2817.7	2855.6	2897.3	3011.1	3098.3
62.5°	2533.3	2571.2	2631.9	2726.7	2726.7
65°	2252.6	2294.3	2377.8	2453.6	2468.8
67.5°	1998.5	2036.5	2176.8	2195.7	2207.1
70°	1710.3	1759.6	1865.8	1937.9	1964.4
72.5°	1448.7	1494.2	1607.9	1699.0	1714.1
75°	1183.2	1247.7	1376.6	1456.2	1626.9
77.5°	940.5	1020.1	1141.5	1236.3	1270.4
80°	705.4	792.6	940.5	1012.5	1027.7
82.5°	489.2	603.0	731.9	838.1	864.6
85°	314.8	428.5	576.4	652.3	671.2
87.5°	166.9	288.2	432.3	523.3	546.1
90°	60.7	170.7	326.1	413.4	432.3
92.5°	53.1	121.4	246.5	322.3	341.3
95°	49.3	117.6	201.0	269.3	280.6
97.5°	56.9	102.4	178.2	212.4	223.7
100°	68.3	91.0	170.7	204.8	216.2
102.5°	79.6	83.4	155.5	185.8	185.8
105°	94.8	91.0	136.5	216.2	201.0
107.5°	106.2	121.4	132.7	159.3	174.4
110°	121.4	132.7	117.6	151.7	155.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	132.7	147.9	117.6	147.9	147.9
115°	140.3	155.5	117.6	136.5	144.1
117.5°	151.7	159.3	147.9	132.7	132.7
120°	163.1	163.1	182.0	128.9	128.9
122.5°	170.7	170.7	193.4	144.1	128.9
125°	178.2	178.2	212.4	182.0	151.7
127.5°	185.8	185.8	220.0	208.6	189.6
130°	193.4	189.6	227.5	223.7	212.4
132.5°	201.0	197.2	227.5	235.1	227.5
135°	208.6	204.8	223.7	250.3	242.7
137.5°	212.4	212.4	220.0	254.1	254.1
140°	220.0	220.0	220.0	250.3	261.7
142.5°	223.7	227.5	223.7	242.7	254.1
145°	227.5	235.1	223.7	235.1	246.5
147.5°	231.3	242.7	223.7	235.1	235.1
150°	238.9	246.5	227.5	231.3	235.1
152.5°	238.9	254.1	235.1	231.3	231.3
155°	242.7	257.9	242.7	231.3	231.3
157.5°	246.5	257.9	246.5	235.1	231.3
160°	246.5	261.7	254.1	242.7	235.1
162.5°	250.3	261.7	261.7	250.3	242.7
165°	250.3	257.9	265.5	257.9	250.3
167.5°	250.3	257.9	265.5	261.7	254.1
170°	254.1	257.9	261.7	261.7	254.1
172.5°	254.1	254.1	257.9	257.9	254.1
175°	254.1	254.1	254.1	254.1	246.5
177.5°	254.1	254.1	254.1	250.3	242.7
180°	250.3	250.3	250.3	250.3	250.3

(END OF REPORT)