

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: **4ILED-LD5-5-W-ASYWG-UNV-L835-CD1-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: 4ILED-LD5-5-W-ASYWG-UNV-L835-CD1-U
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

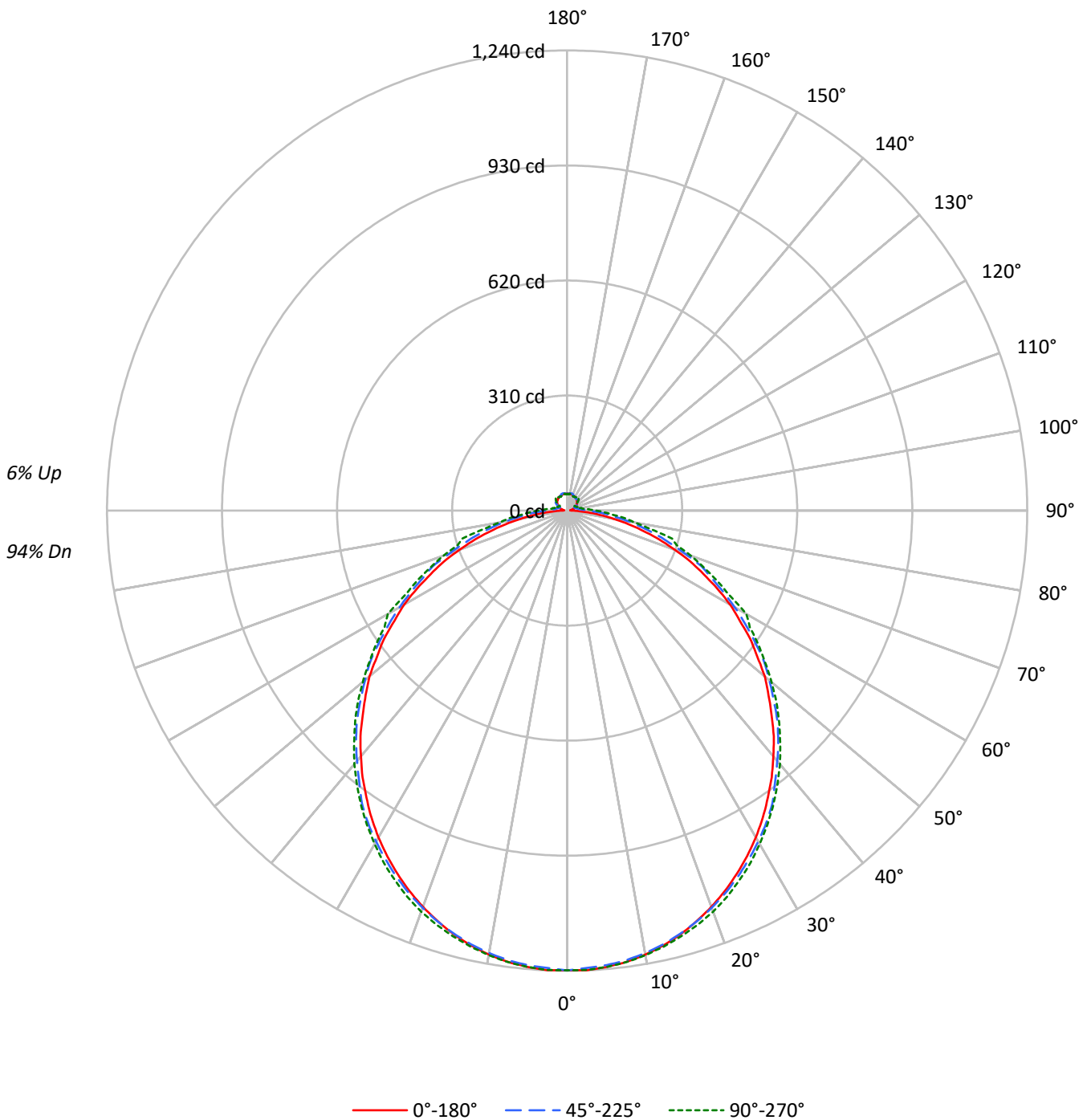
Lumens per Lamp: N/A
Luminaire Lumens: 3733.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 33.5
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°	3637	3637	3637
5°	3629	3593	3602
10°	3606	3550	3557
15°	3569	3498	3507
20°	3518	3440	3456
25°	3461	3377	3387
30°	3398	3310	3308
35°	3322	3241	3224
40°	3245	3127	3131
45°	3154	3038	3027
50°	3083	2917	2906
55°	2977	2786	2782
60°	2855	2631	2755
65°	2675	2472	2503
70°	2474	2288	2336
75°	2211	2077	2362
80°	1880	1862	1933
85°	1485	1678	1812



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	3.1
10°-20°	333.9	8.9
20°-30°	502.3	13.5
30°-40°	600.4	16.1
40°-50°	615.9	16.5
50°-60°	552.7	14.8
60°-70°	424.7	11.4
70°-80°	259.9	7.0
80°-90°	110.2	3.0
90°-100°	38.8	1.0
100°-110°	27.1	0.7
110°-120°	25.3	0.7
120°-130°	29.5	0.8
130°-140°	31.2	0.8
140°-150°	26.4	0.7
150°-160°	20.2	0.5
160°-170°	13.1	0.4
170°-180°	4.4	0.1
0°-30°	953.3	25.5
0°-40°	1553.7	41.6
0°-60°	2722.3	72.9
0°-90°	3517.1	94.2
90°-120°	91.2	2.4
90°-150°	178.3	4.8
90°-180°	216.0	5.8
0°-180°	3733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1234	1234	1229	1234	1234	117
15°	1182	1183	1180	1186	1188	333
25°	1081	1083	1089	1098	1099	498
35°	943	955	964	966	968	590
45°	779	792	801	807	809	602
55°	602	608	618	627	628	537
65°	406	413	428	442	445	403
75°	213	225	248	262	293	227
85°	57	77	104	118	121	61
90°	11	31	59	74	78	8
95°	9	21	36	48	50	8
105°	17	16	25	39	36	18
115°	25	28	21	25	26	25
125°	32	32	38	33	27	29
135°	38	37	40	45	44	29
145°	41	42	40	42	44	26
155°	44	46	44	42	42	20
165°	45	46	48	46	45	13
175°	46	46	46	46	44	4
180°	45	45	45	45	45	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1238.9	1238.9	1238.9	1238.9	1238.9
2.5°	1239.5	1238.9	1233.4	1237.5	1238.9
5°	1234.1	1234.1	1229.3	1234.1	1234.1
7.5°	1226.6	1225.9	1221.8	1225.9	1227.2
10°	1215.0	1215.0	1210.9	1215.6	1216.3
12.5°	1199.9	1200.6	1197.2	1202.0	1203.3
15°	1182.2	1182.9	1180.1	1186.3	1187.6
17.5°	1160.3	1161.7	1161.0	1167.8	1169.9
20°	1136.4	1140.5	1139.1	1148.0	1150.1
22.5°	1109.8	1112.5	1115.2	1124.8	1126.2
25°	1081.1	1083.1	1088.6	1098.2	1098.9
27.5°	1049.7	1055.1	1059.9	1067.4	1070.2
30°	1016.9	1024.4	1029.9	1036.7	1037.4
32.5°	981.4	991.6	998.5	1001.9	1003.9
35°	943.1	955.4	964.3	966.4	968.4
37.5°	905.6	918.6	920.6	930.2	930.8
40°	864.6	879.6	881.0	889.9	891.9
42.5°	824.3	832.5	842.1	850.3	849.6
45°	778.6	792.2	801.1	807.2	808.6
47.5°	736.2	751.9	754.7	762.2	764.9
50°	695.2	707.5	710.9	720.5	719.1
52.5°	645.4	659.0	669.3	672.7	672.7
55°	602.4	607.8	618.1	626.9	628.3
57.5°	551.1	560.0	569.6	581.9	583.2
60°	507.4	514.3	521.8	542.3	558.0
62.5°	456.2	463.0	474.0	491.0	491.0
65°	405.7	413.2	428.2	441.9	444.6
67.5°	359.9	366.7	392.0	395.4	397.5
70°	308.0	316.9	336.0	349.0	353.8
72.5°	260.9	269.1	289.6	306.0	308.7
75°	213.1	224.7	247.9	262.2	293.0
77.5°	169.4	183.7	205.6	222.6	228.8
80°	127.0	142.7	169.4	182.3	185.1
82.5°	88.1	108.6	131.8	150.9	155.7
85°	56.7	77.2	103.8	117.5	120.9
87.5°	30.0	51.9	77.9	94.2	98.3
90°	10.9	30.7	58.7	74.4	77.9
92.5°	9.6	21.9	44.4	58.1	61.5
95°	8.9	21.2	36.2	48.5	50.5
97.5°	10.2	18.4	32.1	38.2	40.3
100°	12.3	16.4	30.7	36.9	38.9
102.5°	14.3	15.0	28.0	33.5	33.5
105°	17.1	16.4	24.6	38.9	36.2
107.5°	19.1	21.9	23.9	28.7	31.4
110°	21.9	23.9	21.2	27.3	28.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	23.9	26.6	21.2	26.6	26.6
115°	25.3	28.0	21.2	24.6	26.0
117.5°	27.3	28.7	26.6	23.9	23.9
120°	29.4	29.4	32.8	23.2	23.2
122.5°	30.7	30.7	34.8	26.0	23.2
125°	32.1	32.1	38.2	32.8	27.3
127.5°	33.5	33.5	39.6	37.6	34.1
130°	34.8	34.1	41.0	40.3	38.2
132.5°	36.2	35.5	41.0	42.3	41.0
135°	37.6	36.9	40.3	45.1	43.7
137.5°	38.2	38.2	39.6	45.8	45.8
140°	39.6	39.6	39.6	45.1	47.1
142.5°	40.3	41.0	40.3	43.7	45.8
145°	41.0	42.3	40.3	42.3	44.4
147.5°	41.7	43.7	40.3	42.3	42.3
150°	43.0	44.4	41.0	41.7	42.3
152.5°	43.0	45.8	42.3	41.7	41.7
155°	43.7	46.4	43.7	41.7	41.7
157.5°	44.4	46.4	44.4	42.3	41.7
160°	44.4	47.1	45.8	43.7	42.3
162.5°	45.1	47.1	47.1	45.1	43.7
165°	45.1	46.4	47.8	46.4	45.1
167.5°	45.1	46.4	47.8	47.1	45.8
170°	45.8	46.4	47.1	47.1	45.8
172.5°	45.8	45.8	46.4	46.4	45.8
175°	45.8	45.8	45.8	45.8	44.4
177.5°	45.8	45.8	45.8	45.1	43.7
180°	45.1	45.1	45.1	45.1	45.1

(END OF REPORT)