

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-L850-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-L850-CD1-U  
Description: Metalux 4' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

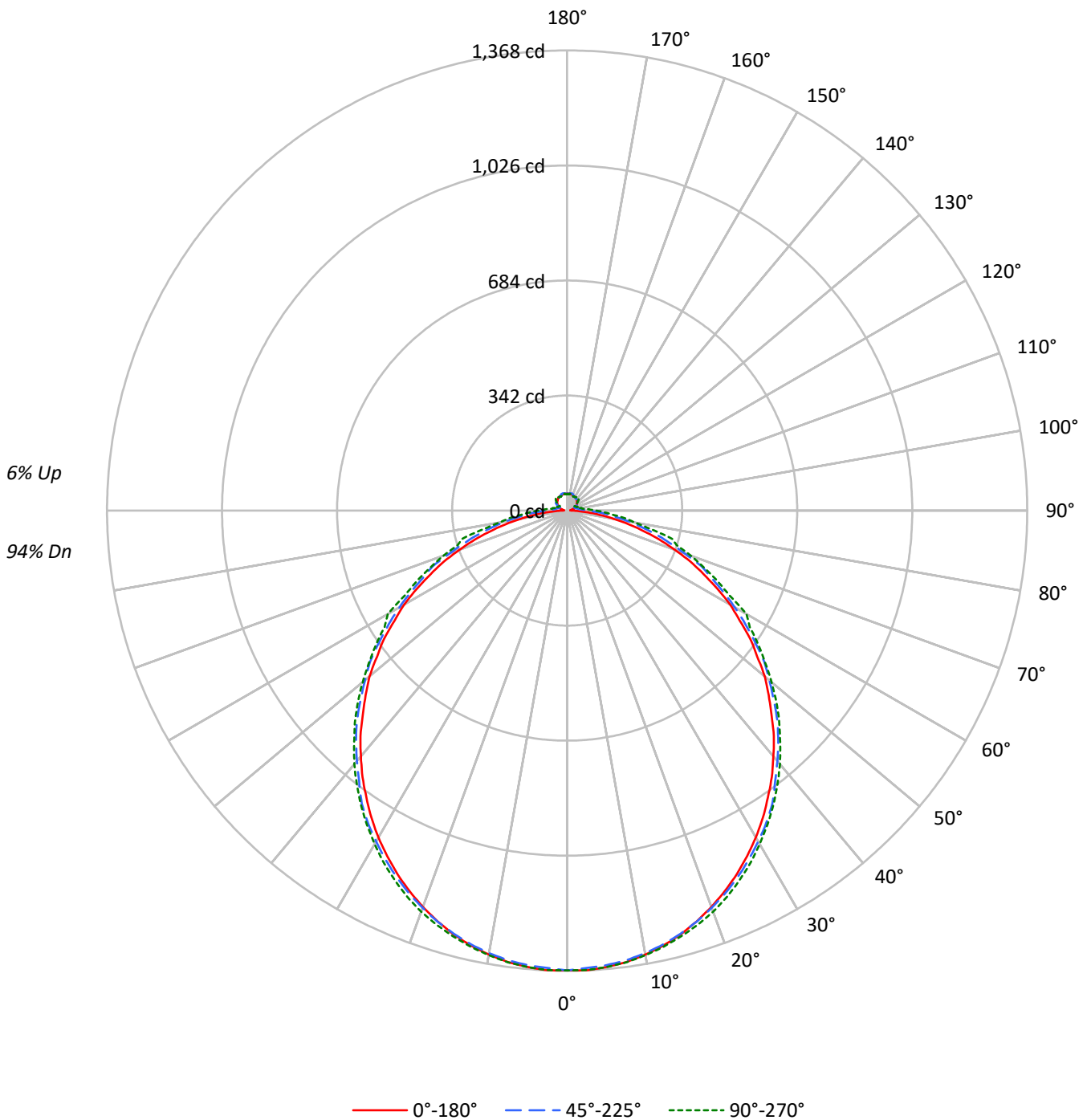
Lumens per Lamp: N/A  
Luminaire Lumens: 4119.0 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

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°	4013	4013	4013
5°	4004	3964	3975
10°	3979	3917	3925
15°	3938	3859	3869
20°	3882	3796	3813
25°	3819	3726	3737
30°	3749	3652	3650
35°	3665	3576	3557
40°	3581	3451	3455
45°	3480	3352	3340
50°	3402	3219	3207
55°	3284	3074	3070
60°	3151	2903	3040
65°	2951	2728	2762
70°	2730	2525	2577
75°	2439	2291	2606
80°	2076	2055	2133
85°	1637	1851	2000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.2	3.1
10°-20°	368.4	8.9
20°-30°	554.3	13.5
30°-40°	662.5	16.1
40°-50°	679.6	16.5
50°-60°	609.9	14.8
60°-70°	468.6	11.4
70°-80°	286.7	7.0
80°-90°	121.6	3.0
90°-100°	42.8	1.0
100°-110°	29.9	0.7
110°-120°	27.9	0.7
120°-130°	32.5	0.8
130°-140°	34.4	0.8
140°-150°	29.1	0.7
150°-160°	22.2	0.5
160°-170°	14.4	0.4
170°-180°	4.8	0.1
0°-30°	1051.9	25.5
0°-40°	1714.3	41.6
0°-60°	3003.8	72.9
0°-90°	3880.7	94.2
90°-120°	100.7	2.4
90°-150°	196.8	4.8
90°-180°	238.0	5.8
0°-180°	4119.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1362	1362	1356	1362	1362	129
15°	1304	1305	1302	1309	1310	368
25°	1193	1195	1201	1212	1212	549
35°	1041	1054	1064	1066	1068	651
45°	859	874	884	891	892	664
55°	665	671	682	692	693	592
65°	448	456	472	488	491	445
75°	235	248	274	289	323	250
85°	62	85	114	130	133	67
90°	12	34	65	82	86	9
95°	10	23	40	54	56	9
105°	19	18	27	43	40	20
115°	28	31	23	27	29	28
125°	35	35	42	36	30	32
135°	41	41	44	50	48	32
145°	45	47	44	47	49	28
155°	48	51	48	46	46	22
165°	50	51	53	51	50	14
175°	50	50	50	50	49	5
180°	50	50	50	50	50	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1367.0	1367.0	1367.0	1367.0	1367.0
2.5°	1367.7	1367.0	1360.9	1365.4	1367.0
5°	1361.7	1361.7	1356.4	1361.7	1361.7
7.5°	1353.4	1352.6	1348.1	1352.6	1354.1
10°	1340.6	1340.6	1336.1	1341.3	1342.1
12.5°	1324.0	1324.8	1321.0	1326.3	1327.8
15°	1304.4	1305.2	1302.1	1308.9	1310.4
17.5°	1280.3	1281.8	1281.1	1288.6	1290.8
20°	1253.9	1258.4	1256.9	1266.7	1269.0
22.5°	1224.5	1227.5	1230.6	1241.1	1242.6
25°	1192.9	1195.1	1201.2	1211.7	1212.5
27.5°	1158.2	1164.2	1169.5	1177.8	1180.8
30°	1122.0	1130.3	1136.4	1143.9	1144.7
32.5°	1082.9	1094.2	1101.7	1105.5	1107.7
35°	1040.7	1054.2	1064.0	1066.3	1068.5
37.5°	999.2	1013.5	1015.8	1026.3	1027.1
40°	954.0	970.6	972.1	981.9	984.1
42.5°	909.5	918.6	929.1	938.2	937.4
45°	859.1	874.1	883.9	890.7	892.2
47.5°	812.3	829.7	832.7	841.0	844.0
50°	767.1	780.7	784.5	795.0	793.5
52.5°	712.1	727.2	738.5	742.3	742.3
55°	664.6	670.7	682.0	691.8	693.3
57.5°	608.1	617.9	628.5	642.0	643.5
60°	559.9	567.4	575.7	598.3	615.7
62.5°	503.4	510.9	523.0	541.8	541.8
65°	447.6	455.9	472.5	487.6	490.6
67.5°	397.1	404.7	432.5	436.3	438.6
70°	339.9	349.7	370.8	385.1	390.3
72.5°	287.9	296.9	319.5	337.6	340.6
75°	235.1	247.9	273.5	289.4	323.3
77.5°	186.9	202.7	226.8	245.7	252.4
80°	140.2	157.5	186.9	201.2	204.2
82.5°	97.2	119.8	145.4	166.5	171.8
85°	62.5	85.2	114.5	129.6	133.4
87.5°	33.2	57.3	85.9	104.0	108.5
90°	12.1	33.9	64.8	82.1	85.9
92.5°	10.5	24.1	49.0	64.1	67.8
95°	9.8	23.4	39.9	53.5	55.8
97.5°	11.3	20.3	35.4	42.2	44.5
100°	13.6	18.1	33.9	40.7	43.0
102.5°	15.8	16.6	30.9	36.9	36.9
105°	18.8	18.1	27.1	43.0	39.9
107.5°	21.1	24.1	26.4	31.6	34.7
110°	24.1	26.4	23.4	30.1	30.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	26.4	29.4	23.4	29.4	29.4
115°	27.9	30.9	23.4	27.1	28.6
117.5°	30.1	31.6	29.4	26.4	26.4
120°	32.4	32.4	36.2	25.6	25.6
122.5°	33.9	33.9	38.4	28.6	25.6
125°	35.4	35.4	42.2	36.2	30.1
127.5°	36.9	36.9	43.7	41.4	37.7
130°	38.4	37.7	45.2	44.5	42.2
132.5°	39.9	39.2	45.2	46.7	45.2
135°	41.4	40.7	44.5	49.7	48.2
137.5°	42.2	42.2	43.7	50.5	50.5
140°	43.7	43.7	43.7	49.7	52.0
142.5°	44.5	45.2	44.5	48.2	50.5
145°	45.2	46.7	44.5	46.7	49.0
147.5°	46.0	48.2	44.5	46.7	46.7
150°	47.5	49.0	45.2	46.0	46.7
152.5°	47.5	50.5	46.7	46.0	46.0
155°	48.2	51.2	48.2	46.0	46.0
157.5°	49.0	51.2	49.0	46.7	46.0
160°	49.0	52.0	50.5	48.2	46.7
162.5°	49.7	52.0	52.0	49.7	48.2
165°	49.7	51.2	52.7	51.2	49.7
167.5°	49.7	51.2	52.7	52.0	50.5
170°	50.5	51.2	52.0	52.0	50.5
172.5°	50.5	50.5	51.2	51.2	50.5
175°	50.5	50.5	50.5	50.5	49.0
177.5°	50.5	50.5	50.5	49.7	48.2
180°	49.7	49.7	49.7	49.7	49.7

(END OF REPORT)