

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-LD5-16-N-WG-UNV-L850-CD2-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-16-N-WG-UNV-L850-CD2-U  
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

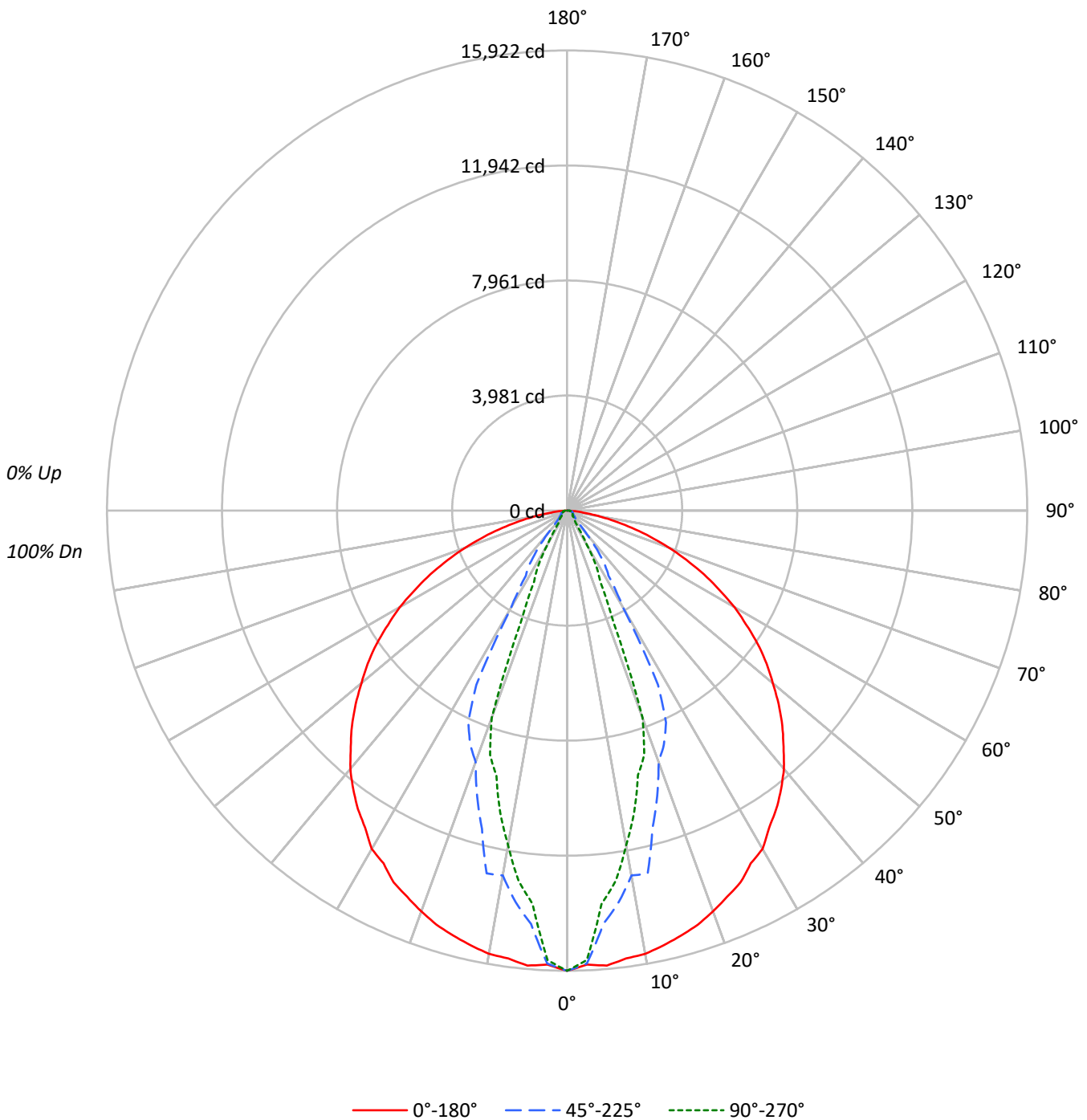
Lumens per Lamp: N/A  
Luminaire Lumens: 15808.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 126.6  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	108	104	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89				89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71				71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64				64
5	85	75	68	62	83	74	67	62	72	66	62	70	65	61	69	64	60	59				59
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54				54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49				49
8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46				46
9	68	56	49	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43				43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	46742	46742	46742
5°	46464	41970	39895
10°	46214	37594	34426
15°	45960	33787	27977
20°	45681	27947	22919
25°	45460	25105	8337
30°	45181	12501	4346
35°	44434	7560	1655
40°	43809	3779	1442
45°	42655	1637	1067
50°	41206	1384	973
55°	39787	1155	1019
60°	37640	1200	995
65°	34422	1299	1016
70°	30043	1354	1054
75°	24017	1490	1160
80°	16189	1755	1284
85°	8634	2072	1607



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1360.1	8.6
10°-20°	3297.2	20.9
20°-30°	3591.8	22.7
30°-40°	2763.1	17.5
40°-50°	2041.6	12.9
50°-60°	1284.5	8.1
60°-70°	841.1	5.3
70°-80°	470.9	3.0
80°-90°	157.7	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8249.1	52.2
0°-40°	11012.2	69.7
0°-60°	14338.3	90.7
0°-90°	15808.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15808.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	15922	15922	15922	15922	15922	
5°	15802	15679	14361	13513	13668	###
15°	15224	13236	11400	9896	9474	4299
25°	14198	10610	8093	3605	2705	6527
35°	12616	7819	2250	717	497	7890
45°	10531	4164	432	364	285	8110
55°	8051	1067	256	269	230	7173
65°	5221	264	225	201	180	5149
75°	2315	199	178	160	144	2484
85°	330	126	128	123	107	420
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	15922.4	15922.4	15922.4	15922.4	15922.4
2.5°	15726.2	15731.4	15692.2	15613.7	15564.0
5°	15802.0	15679.1	14360.7	13513.2	13667.5
7.5°	15629.4	14993.7	13667.5	13034.5	12911.6
10°	15571.8	13942.2	12822.6	12608.1	11771.1
12.5°	15407.0	13303.9	12861.9	11509.5	10706.5
15°	15223.9	13235.9	11399.6	9895.6	9474.4
17.5°	15025.1	12639.5	10358.6	9069.0	8867.6
20°	14755.7	12257.6	9254.7	8336.5	7627.7
22.5°	14465.4	12074.5	8755.1	5433.0	4211.4
25°	14198.5	10609.7	8093.3	3604.6	2704.7
27.5°	13759.1	10492.0	6798.5	2639.3	2231.3
30°	13521.1	9403.8	3889.7	1985.4	1362.8
32.5°	13005.7	8551.0	2662.9	1205.9	813.5
35°	12616.0	7818.6	2249.6	716.7	497.0
37.5°	12158.2	7334.7	1682.0	491.8	431.6
40°	11671.7	6764.5	1064.6	439.5	410.7
42.5°	11080.5	6092.2	630.4	413.3	353.1
45°	10531.2	4164.3	431.6	363.6	285.1
47.5°	9924.3	2840.8	368.8	308.7	245.9
50°	9291.3	1857.2	337.4	274.7	240.7
52.5°	8697.5	1522.4	293.0	274.7	240.7
55°	8051.4	1067.2	256.3	269.4	230.2
57.5°	7342.5	664.4	240.7	261.6	222.3
60°	6688.6	392.4	238.0	253.7	201.4
62.5°	5924.8	298.2	232.8	225.0	191.0
65°	5221.1	264.2	225.0	201.4	180.5
67.5°	4465.2	238.0	209.3	193.6	175.3
70°	3740.6	214.5	198.8	180.5	159.6
72.5°	3013.4	206.6	188.3	170.0	151.7
75°	2315.0	198.8	177.9	159.6	143.9
77.5°	1684.6	185.7	167.4	154.3	136.0
80°	1093.4	170.0	159.6	143.9	122.9
82.5°	609.5	154.3	146.5	133.4	117.7
85°	329.6	125.6	128.2	122.9	107.2
87.5°	60.2	88.9	109.9	107.2	94.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)