

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-N-WG-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 (P34186)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-5-N-WG-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH OPEN NARROW-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

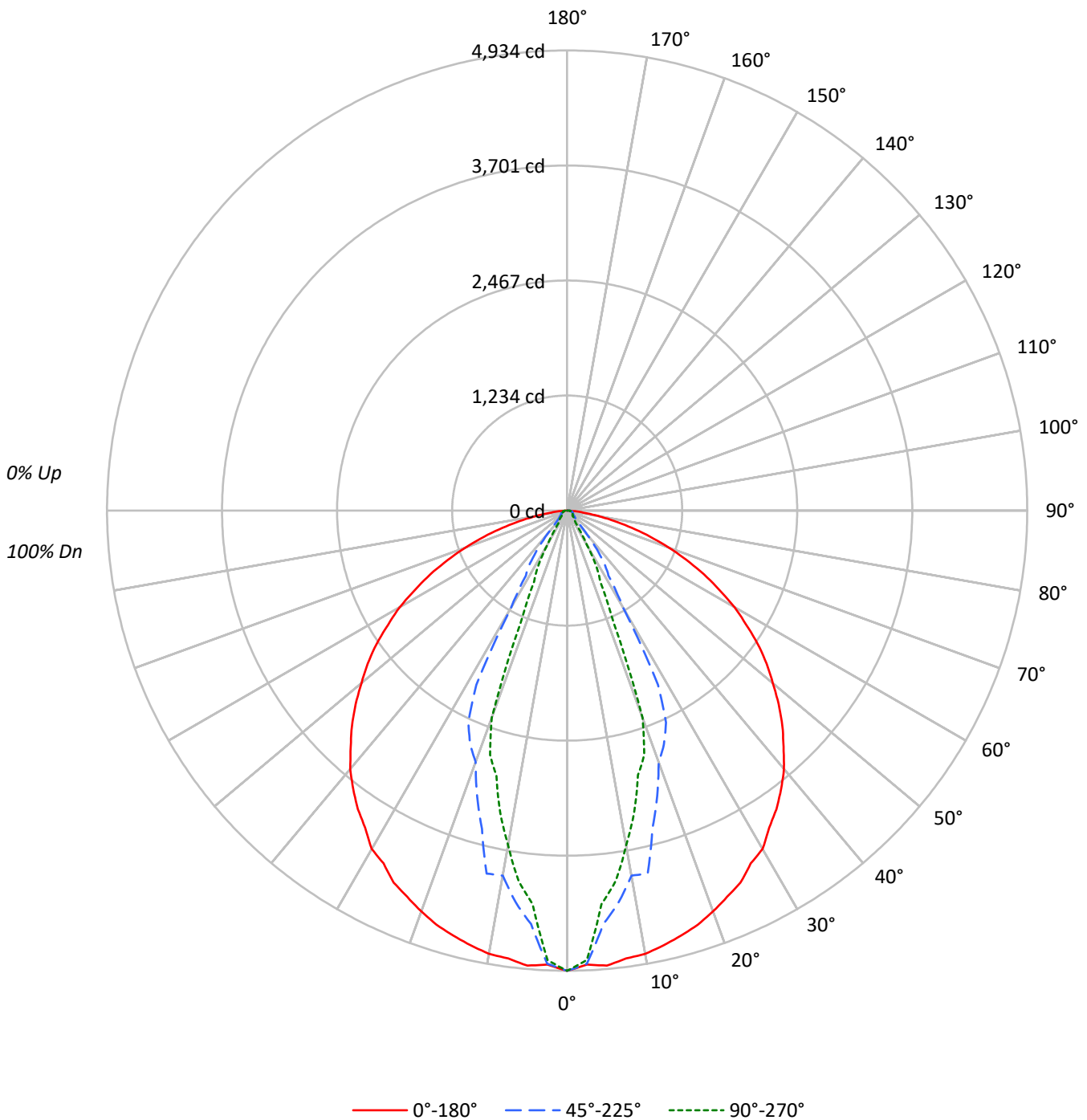
Lumens per Lamp: N/A  
Luminaire Lumens: 4899.0 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 0.6 / 0.75  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 33.5  
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	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°	14485	14485	14485
5°	14399	13007	12364
10°	14322	11651	10669
15°	14243	10471	8670
20°	14157	8661	7103
25°	14088	7780	2584
30°	14002	3874	1347
35°	13771	2343	513
40°	13577	1171	447
45°	13219	507	331
50°	12770	429	302
55°	12330	358	316
60°	11665	372	308
65°	10668	402	315
70°	9310	419	326
75°	7443	462	360
80°	5018	543	398
85°	2675	642	498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.5	8.6
10°-20°	1021.8	20.9
20°-30°	1113.1	22.7
30°-40°	856.3	17.5
40°-50°	632.7	12.9
50°-60°	398.1	8.1
60°-70°	260.7	5.3
70°-80°	145.9	3.0
80°-90°	48.9	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°	2556.4	52.2
0°-40°	3412.7	69.7
0°-60°	4443.5	90.7
0°-90°	4899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4899.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4934	4934	4934	4934	4934	
5°	4897	4859	4450	4188	4236	464
15°	4718	4102	3533	3067	2936	1332
25°	4400	3288	2508	1117	838	2023
35°	3910	2423	697	222	154	2445
45°	3264	1291	134	113	88	2513
55°	2495	331	79	84	71	2223
65°	1618	82	70	62	56	1596
75°	717	62	55	49	45	770
85°	102	39	40	38	33	130
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4934.4	4934.4	4934.4	4934.4	4934.4
2.5°	4873.6	4875.3	4863.1	4838.8	4823.4
5°	4897.1	4859.0	4450.5	4187.8	4235.7
7.5°	4843.6	4646.7	4235.7	4039.5	4001.4
10°	4825.8	4320.8	3973.8	3907.3	3647.9
12.5°	4774.7	4123.0	3986.0	3566.9	3318.0
15°	4718.0	4101.9	3532.8	3066.7	2936.2
17.5°	4656.4	3917.1	3210.2	2810.5	2748.1
20°	4572.9	3798.7	2868.1	2583.5	2363.9
22.5°	4482.9	3742.0	2713.3	1683.7	1305.1
25°	4400.2	3288.0	2508.2	1117.1	838.2
27.5°	4264.0	3251.5	2106.9	817.9	691.5
30°	4190.3	2914.3	1205.4	615.3	422.3
32.5°	4030.6	2650.0	825.2	373.7	252.1
35°	3909.8	2423.0	697.2	222.1	154.0
37.5°	3767.9	2273.1	521.2	152.4	133.8
40°	3617.1	2096.3	329.9	136.2	127.3
42.5°	3433.9	1888.0	195.4	128.1	109.4
45°	3263.7	1290.6	133.8	112.7	88.4
47.5°	3075.6	880.4	114.3	95.7	76.2
50°	2879.4	575.6	104.6	85.1	74.6
52.5°	2695.4	471.8	90.8	85.1	74.6
55°	2495.2	330.7	79.4	83.5	71.3
57.5°	2275.5	205.9	74.6	81.1	68.9
60°	2072.8	121.6	73.8	78.6	62.4
62.5°	1836.1	92.4	72.1	69.7	59.2
65°	1618.1	81.9	69.7	62.4	55.9
67.5°	1383.8	73.8	64.9	60.0	54.3
70°	1159.2	66.5	61.6	55.9	49.4
72.5°	933.9	64.0	58.4	52.7	47.0
75°	717.4	61.6	55.1	49.4	44.6
77.5°	522.1	57.6	51.9	47.8	42.2
80°	338.9	52.7	49.4	44.6	38.1
82.5°	188.9	47.8	45.4	41.3	36.5
85°	102.1	38.9	39.7	38.1	33.2
87.5°	18.6	27.6	34.0	33.2	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)