

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-LD5-9-W-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 (P34173)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4ILED-LD5-9-W-UNV-L850-CD1-U  
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

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

**Summary**

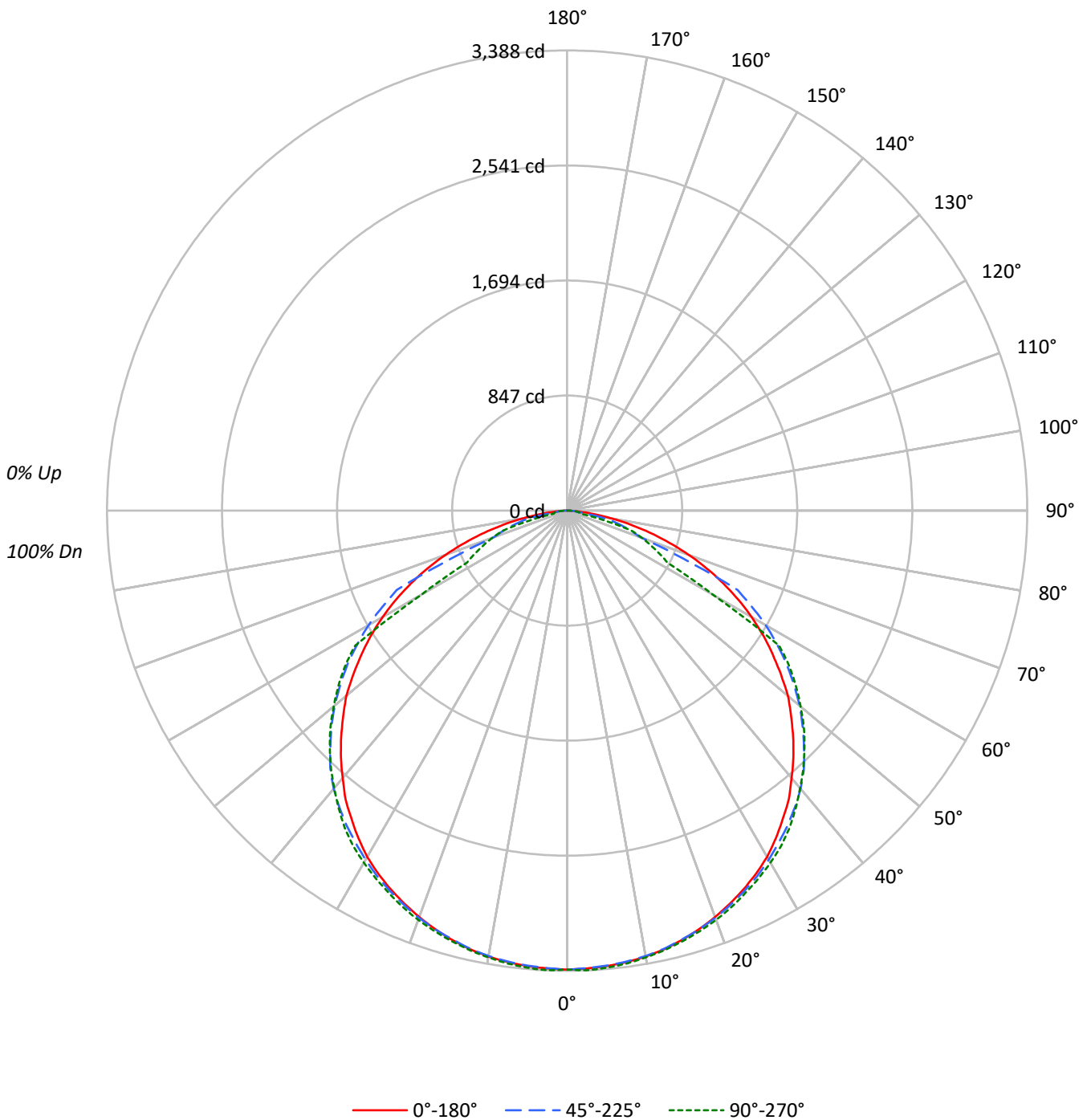
Lumens per Lamp: N/A  
Luminaire Lumens: 9753.0 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	9921	9921	9921
5°	9898	9830	9861
10°	9894	9763	9770
15°	9878	9686	9694
20°	9859	9637	9637
25°	9847	9582	9575
30°	9836	9538	9546
35°	9756	9512	9500
40°	9649	9493	9370
45°	9529	9350	9250
50°	9413	9168	9068
55°	9132	8900	8845
60°	8832	8525	6142
65°	8359	7995	4212
70°	7643	3895	3857
75°	6535	3383	2409
80°	4843	1998	984
85°	2397	1001	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.6	3.3
10°-20°	925.7	9.5
20°-30°	1427.3	14.6
30°-40°	1767.3	18.1
40°-50°	1881.3	19.3
50°-60°	1736.0	17.8
60°-70°	1111.5	11.4
70°-80°	500.7	5.1
80°-90°	82.7	0.8
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°	2673.5	27.4
0°-40°	4440.8	45.5
0°-60°	8058.1	82.6
0°-90°	9753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3380	3380	3380	3380	3380	
5°	3366	3372	3364	3373	3378	320
15°	3272	3277	3268	3284	3283	924
25°	3076	3084	3089	3109	3106	1418
35°	2770	2798	2830	2860	2853	1734
45°	2353	2401	2466	2482	2471	1815
55°	1848	1915	1974	2007	1997	1653
65°	1268	1328	1385	764	748	1252
75°	630	685	404	415	299	669
85°	92	69	62	66	61	133
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3379.7	3379.7	3379.7	3379.7	3379.7
2.5°	3374.3	3381.0	3371.6	3381.0	3387.8
5°	3366.2	3371.6	3363.5	3373.0	3378.3
7.5°	3352.8	3358.2	3348.7	3358.2	3363.5
10°	3333.9	3336.6	3329.9	3339.3	3340.7
12.5°	3307.0	3309.7	3304.3	3313.7	3315.1
15°	3272.0	3277.4	3268.0	3284.1	3282.8
17.5°	3231.6	3237.0	3233.0	3245.1	3246.4
20°	3184.5	3189.9	3191.3	3206.1	3207.4
22.5°	3132.0	3140.1	3141.5	3161.6	3160.3
25°	3075.5	3083.6	3089.0	3109.1	3106.5
27.5°	3013.6	3024.4	3032.4	3052.6	3052.6
30°	2943.6	2958.4	2967.8	2994.7	2993.4
32.5°	2860.1	2888.4	2899.2	2932.8	2930.1
35°	2770.0	2798.2	2830.5	2860.1	2853.4
37.5°	2681.1	2709.4	2753.8	2771.3	2763.2
40°	2570.8	2617.9	2674.4	2681.1	2669.0
42.5°	2465.8	2503.5	2580.2	2584.2	2573.5
45°	2352.7	2401.2	2465.8	2481.9	2471.2
47.5°	2235.6	2277.4	2352.7	2372.9	2364.8
50°	2122.6	2160.3	2234.3	2254.5	2243.7
52.5°	1983.9	2040.5	2103.7	2136.0	2123.9
55°	1848.0	1915.3	1974.5	2006.8	1997.4
57.5°	1712.1	1786.1	1830.5	1874.9	1852.0
60°	1569.4	1642.1	1690.5	1670.3	1243.7
62.5°	1421.3	1491.3	1531.7	1027.0	833.1
65°	1267.9	1328.5	1385.0	764.5	748.3
67.5°	1111.8	1172.3	922.0	679.7	664.9
70°	951.6	1008.1	572.0	592.2	584.1
72.5°	790.1	843.9	491.3	514.2	503.4
75°	629.9	685.1	403.8	414.6	298.8
77.5°	480.5	472.4	325.7	228.8	102.3
80°	327.1	218.0	181.7	95.6	94.2
82.5°	203.2	146.7	76.7	84.8	83.4
85°	91.5	68.6	61.9	66.0	60.6
87.5°	32.3	33.6	37.7	35.0	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)