

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-L840-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-L840-CD1-U  
Description: Metalux 4' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

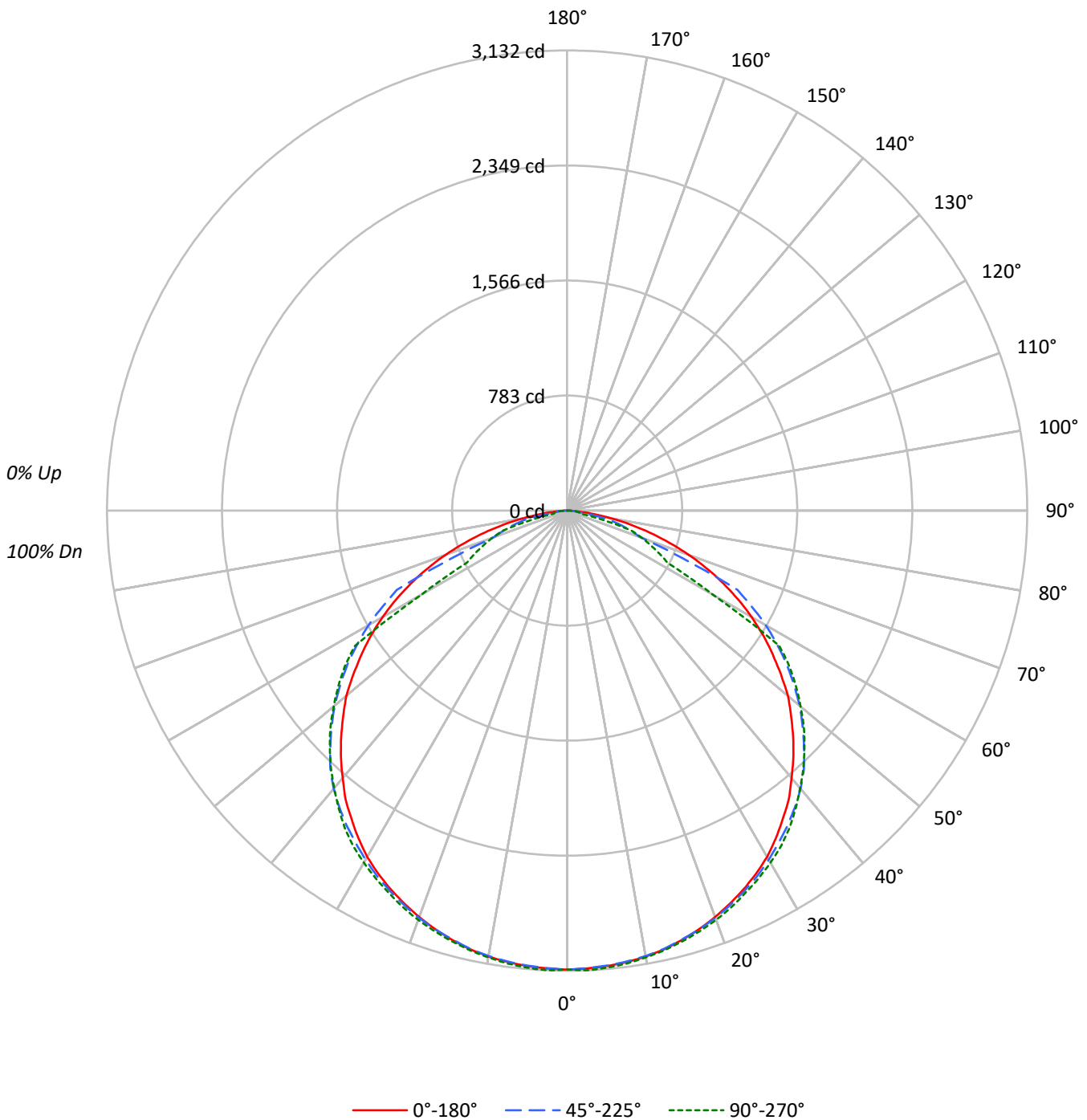
Lumens per Lamp: N/A  
Luminaire Lumens: 9016.0 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 65.7  
Input Voltage (V):  
Input Current (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	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°	9172	9172	9172
5°	9150	9087	9116
10°	9147	9025	9032
15°	9132	8954	8961
20°	9114	8909	8909
25°	9103	8858	8851
30°	9093	8817	8824
35°	9019	8793	8782
40°	8920	8776	8662
45°	8809	8644	8551
50°	8702	8475	8383
55°	8442	8228	8177
60°	8164	7881	5677
65°	7727	7391	3894
70°	7065	3601	3566
75°	6041	3127	2226
80°	4477	1847	910
85°	2216	925	839



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.4	3.3
10°-20°	855.7	9.5
20°-30°	1319.4	14.6
30°-40°	1633.8	18.1
40°-50°	1739.2	19.3
50°-60°	1604.8	17.8
60°-70°	1027.5	11.4
70°-80°	462.8	5.1
80°-90°	76.4	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°	2471.5	27.4
0°-40°	4105.2	45.5
0°-60°	7449.2	82.6
0°-90°	9016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3124	3124	3124	3124	3124	
5°	3112	3117	3109	3118	3123	296
15°	3025	3030	3021	3036	3035	854
25°	2843	2851	2856	2874	2872	1311
35°	2561	2587	2617	2644	2638	1603
45°	2175	2220	2280	2294	2284	1678
55°	1708	1771	1825	1855	1846	1528
65°	1172	1228	1280	707	692	1157
75°	582	633	373	383	276	619
85°	85	64	57	61	56	123
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3124.3	3124.3	3124.3	3124.3	3124.3
2.5°	3119.3	3125.5	3116.8	3125.5	3131.8
5°	3111.9	3116.8	3109.4	3118.1	3123.1
7.5°	3099.4	3104.4	3095.7	3104.4	3109.4
10°	3082.0	3084.5	3078.3	3087.0	3088.2
12.5°	3057.1	3059.6	3054.6	3063.3	3064.6
15°	3024.8	3029.7	3021.0	3036.0	3034.7
17.5°	2987.4	2992.4	2988.7	2999.9	3001.1
20°	2943.9	2948.9	2950.1	2963.8	2965.0
22.5°	2895.4	2902.8	2904.1	2922.7	2921.5
25°	2843.1	2850.6	2855.5	2874.2	2871.7
27.5°	2785.9	2795.8	2803.3	2821.9	2821.9
30°	2721.2	2734.8	2743.6	2768.4	2767.2
32.5°	2644.0	2670.1	2680.1	2711.2	2708.7
35°	2560.7	2586.8	2616.6	2644.0	2637.8
37.5°	2478.5	2504.7	2545.7	2561.9	2554.4
40°	2376.5	2420.1	2472.3	2478.5	2467.3
42.5°	2279.5	2314.3	2385.2	2388.9	2379.0
45°	2174.9	2219.7	2279.5	2294.4	2284.4
47.5°	2066.7	2105.3	2174.9	2193.6	2186.1
50°	1962.2	1997.0	2065.4	2084.1	2074.2
52.5°	1834.0	1886.3	1944.8	1974.6	1963.4
55°	1708.3	1770.6	1825.3	1855.2	1846.5
57.5°	1582.7	1651.1	1692.2	1733.2	1712.1
60°	1450.8	1518.0	1562.8	1544.1	1149.7
62.5°	1313.9	1378.6	1415.9	949.4	770.2
65°	1172.1	1228.1	1280.3	706.7	691.8
67.5°	1027.7	1083.7	852.3	628.3	614.7
70°	879.7	931.9	528.8	547.5	540.0
72.5°	730.4	780.1	454.1	475.3	465.3
75°	582.3	633.3	373.3	383.2	276.2
77.5°	444.2	436.7	301.1	211.5	94.6
80°	302.4	201.6	168.0	88.3	87.1
82.5°	187.9	135.6	70.9	78.4	77.1
85°	84.6	63.5	57.2	61.0	56.0
87.5°	29.9	31.1	34.8	32.4	29.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)