

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: P229448

Luminaire Tested: **24ALNG-LD5-67-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24ALNG-LD5-67-UNV-L840-CD1-SVPD1-U  
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (252)4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6526.0 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

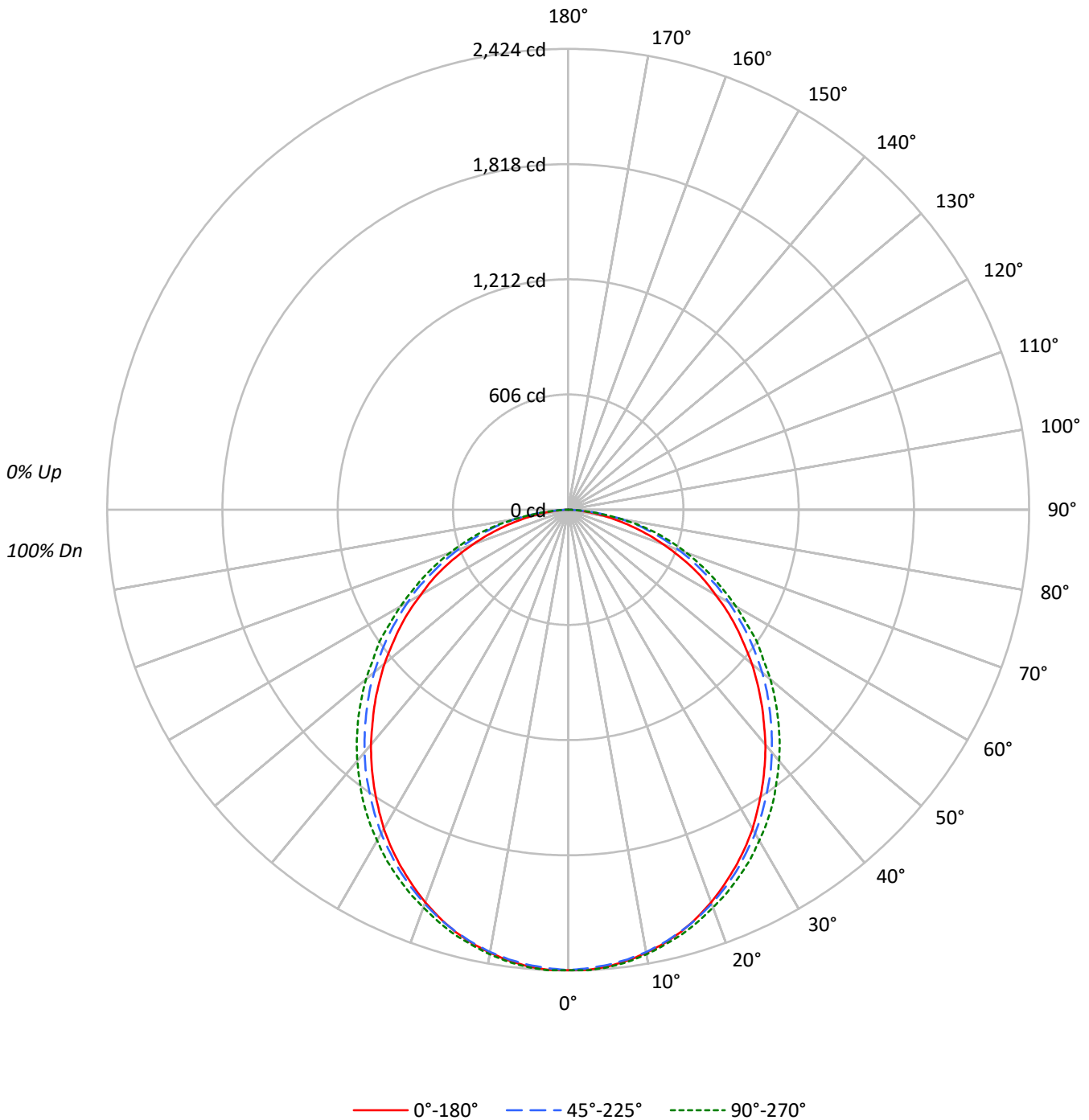
Input Watts (W): 51.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

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

	0°	45°	90°
0°	3710	3710	3710
5°	3708	3695	3714
10°	3680	3674	3694
15°	3643	3640	3667
20°	3584	3594	3629
25°	3508	3541	3596
30°	3428	3477	3554
35°	3327	3403	3511
40°	3226	3329	3450
45°	3113	3248	3383
50°	3004	3173	3306
55°	2884	3079	3234
60°	2741	2985	3124
65°	2612	2869	3041
70°	2389	2765	2957
75°	2088	2674	2877
80°	1746	2505	2486
85°	1209	1777	1589



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.7	3.5
10°-20°	648.8	9.9
20°-30°	967.2	14.8
30°-40°	1141.8	17.5
40°-50°	1157.3	17.7
50°-60°	1026.4	15.7
60°-70°	778.5	11.9
70°-80°	461.1	7.1
80°-90°	116.3	1.8
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°	1844.6	28.3
0°-40°	2986.3	45.8
0°-60°	5170.1	79.2
0°-90°	6526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6526.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2412	2409	2403	2412	2416	229
15°	2298	2298	2295	2306	2313	647
25°	2076	2080	2095	2121	2128	956
35°	1779	1794	1820	1861	1878	1113
45°	1437	1456	1499	1545	1562	1109
55°	1080	1101	1153	1196	1211	965
65°	721	742	792	826	839	710
75°	353	400	452	475	486	378
85°	69	103	101	92	90	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2422.3	2422.3	2422.3	2422.3	2422.3
2.5°	2422.3	2420.2	2413.7	2422.3	2424.5
5°	2411.6	2409.4	2403.0	2411.6	2415.9
7.5°	2392.2	2392.2	2385.7	2394.3	2398.6
10°	2366.4	2366.4	2362.1	2370.7	2375.0
12.5°	2336.3	2336.3	2332.0	2342.7	2344.9
15°	2297.5	2297.5	2295.4	2306.1	2312.6
17.5°	2250.2	2250.2	2254.5	2269.6	2271.7
20°	2198.6	2200.7	2205.0	2224.4	2226.5
22.5°	2138.3	2144.8	2153.4	2174.9	2181.4
25°	2076.0	2080.3	2095.3	2121.1	2127.6
27.5°	2009.3	2015.7	2030.8	2063.1	2073.8
30°	1938.3	1942.6	1966.2	1998.5	2009.3
32.5°	1858.7	1869.4	1895.3	1934.0	1946.9
35°	1779.1	1794.1	1820.0	1860.8	1878.0
37.5°	1697.3	1710.2	1746.8	1787.7	1800.6
40°	1613.4	1626.3	1665.1	1710.2	1725.3
42.5°	1523.1	1542.4	1583.3	1628.5	1645.7
45°	1437.0	1456.4	1499.4	1544.6	1561.8
47.5°	1348.8	1368.2	1417.7	1456.4	1475.8
50°	1260.6	1284.3	1331.6	1372.5	1387.6
52.5°	1168.1	1191.8	1241.3	1282.1	1292.9
55°	1079.9	1101.4	1153.1	1196.1	1211.2
57.5°	989.6	1013.2	1062.7	1105.7	1110.0
60°	894.9	920.7	974.5	1008.9	1019.7
62.5°	811.0	832.5	890.6	918.6	925.0
65°	720.7	742.2	791.7	826.1	839.0
67.5°	623.9	654.0	705.6	740.0	748.6
70°	533.5	570.1	617.4	654.0	660.4
72.5°	443.2	481.9	535.7	565.8	572.2
75°	352.8	400.1	451.8	475.4	486.2
77.5°	273.2	318.4	370.0	391.5	389.4
80°	197.9	243.1	284.0	284.0	281.8
82.5°	126.9	172.1	193.6	187.2	182.9
85°	68.8	103.3	101.1	92.5	90.4
87.5°	28.0	34.4	25.8	19.4	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)