

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: P229428

Luminaire Tested: **24ALNG-LD5-67-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229428  
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-L830-CD1-SVPD1-U  
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (252)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6265.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

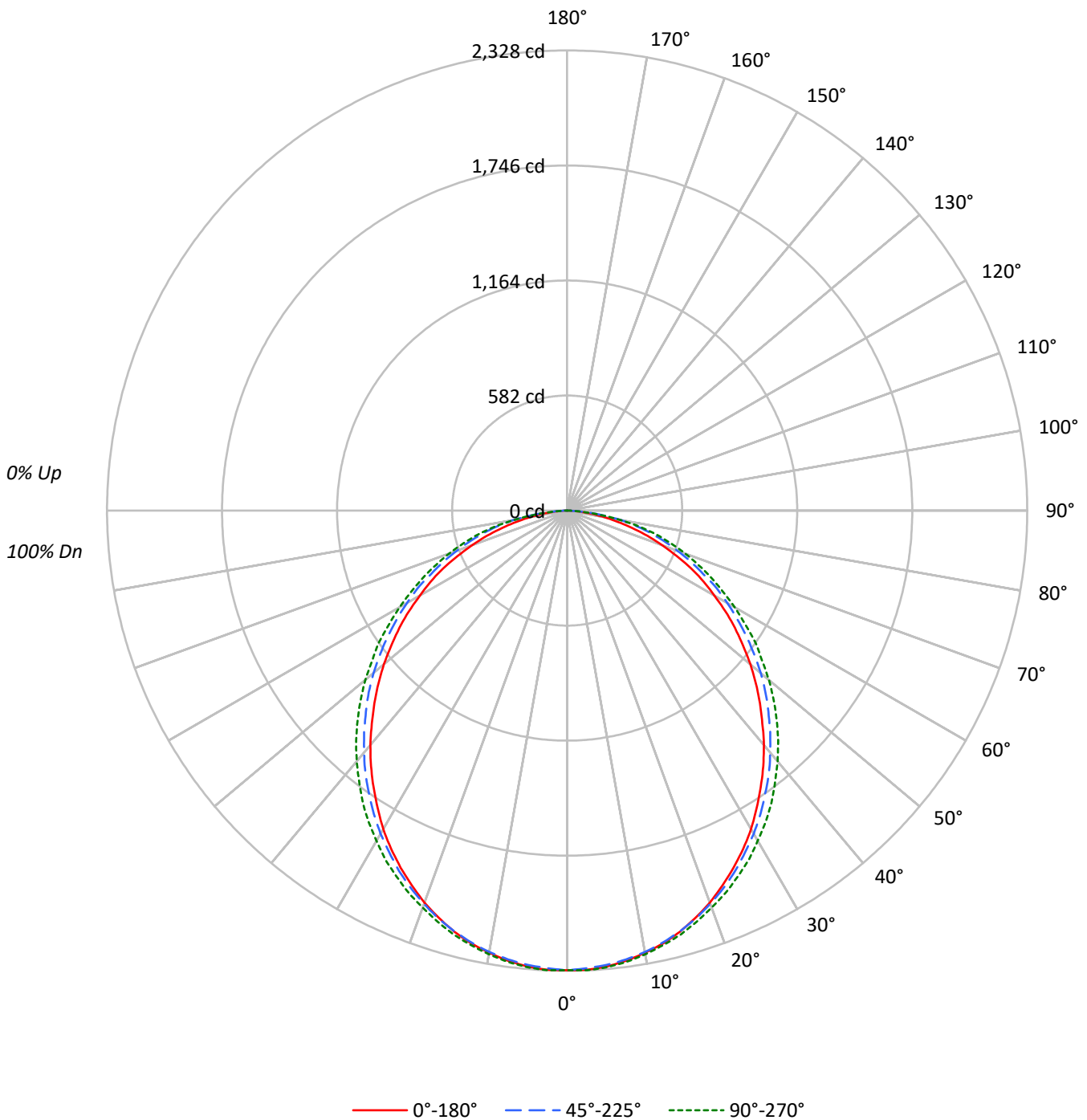
Input Watts (W): 51.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3562	3562	3562
5°	3559	3547	3566
10°	3533	3527	3546
15°	3497	3494	3520
20°	3440	3450	3484
25°	3368	3399	3452
30°	3291	3338	3411
35°	3193	3267	3371
40°	3097	3196	3312
45°	2988	3118	3248
50°	2884	3046	3174
55°	2768	2956	3105
60°	2632	2866	2999
65°	2507	2754	2919
70°	2294	2654	2839
75°	2004	2567	2762
80°	1676	2404	2386
85°	1162	1706	1524



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	3.5
10°-20°	622.8	9.9
20°-30°	928.5	14.8
30°-40°	1096.1	17.5
40°-50°	1111.1	17.7
50°-60°	985.4	15.7
60°-70°	747.4	11.9
70°-80°	442.6	7.1
80°-90°	111.6	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°	1770.8	28.3
0°-40°	2866.9	45.8
0°-60°	4963.3	79.2
0°-90°	6265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6265.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2325	2325	2325	2325	2325	
5°	2315	2313	2307	2315	2319	220
15°	2206	2206	2204	2214	2220	621
25°	1993	1997	2012	2036	2042	918
35°	1708	1722	1747	1786	1803	1068
45°	1380	1398	1440	1483	1499	1064
55°	1037	1057	1107	1148	1163	926
65°	692	712	760	793	805	681
75°	339	384	434	456	467	363
85°	66	99	97	89	87	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2325.4	2325.4	2325.4	2325.4	2325.4
2.5°	2325.4	2323.4	2317.2	2325.4	2327.5
5°	2315.1	2313.0	2306.8	2315.1	2319.2
7.5°	2296.5	2296.5	2290.3	2298.6	2302.7
10°	2271.7	2271.7	2267.6	2275.9	2280.0
12.5°	2242.8	2242.8	2238.7	2249.0	2251.1
15°	2205.7	2205.7	2203.6	2213.9	2220.1
17.5°	2160.2	2160.2	2164.3	2178.8	2180.9
20°	2110.7	2112.7	2116.8	2135.4	2137.5
22.5°	2052.8	2059.0	2067.3	2087.9	2094.1
25°	1992.9	1997.1	2011.5	2036.3	2042.5
27.5°	1928.9	1935.1	1949.6	1980.5	1990.9
30°	1860.8	1864.9	1887.6	1918.6	1928.9
32.5°	1784.3	1794.7	1819.5	1856.6	1869.0
35°	1707.9	1722.4	1747.2	1786.4	1802.9
37.5°	1629.5	1641.8	1677.0	1716.2	1728.6
40°	1548.9	1561.3	1598.5	1641.8	1656.3
42.5°	1462.2	1480.8	1520.0	1563.4	1579.9
45°	1379.6	1398.2	1439.5	1482.8	1499.3
47.5°	1294.9	1313.5	1361.0	1398.2	1416.7
50°	1210.2	1232.9	1278.4	1317.6	1332.1
52.5°	1121.4	1144.1	1191.6	1230.9	1241.2
55°	1036.7	1057.4	1107.0	1148.3	1162.7
57.5°	950.0	972.7	1020.2	1061.5	1065.7
60°	859.1	883.9	935.5	968.6	978.9
62.5°	778.6	799.2	855.0	881.8	888.0
65°	691.8	712.5	760.0	793.0	805.4
67.5°	598.9	627.8	677.4	710.4	718.7
70°	512.2	547.3	592.7	627.8	634.0
72.5°	425.4	462.6	514.2	543.2	549.3
75°	338.7	384.1	433.7	456.4	466.7
77.5°	262.3	305.7	355.2	375.9	373.8
80°	190.0	233.4	272.6	272.6	270.5
82.5°	121.8	165.2	185.9	179.7	175.5
85°	66.1	99.1	97.1	88.8	86.7
87.5°	26.8	33.0	24.8	18.6	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)