

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: P229385

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36066)
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-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6709.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

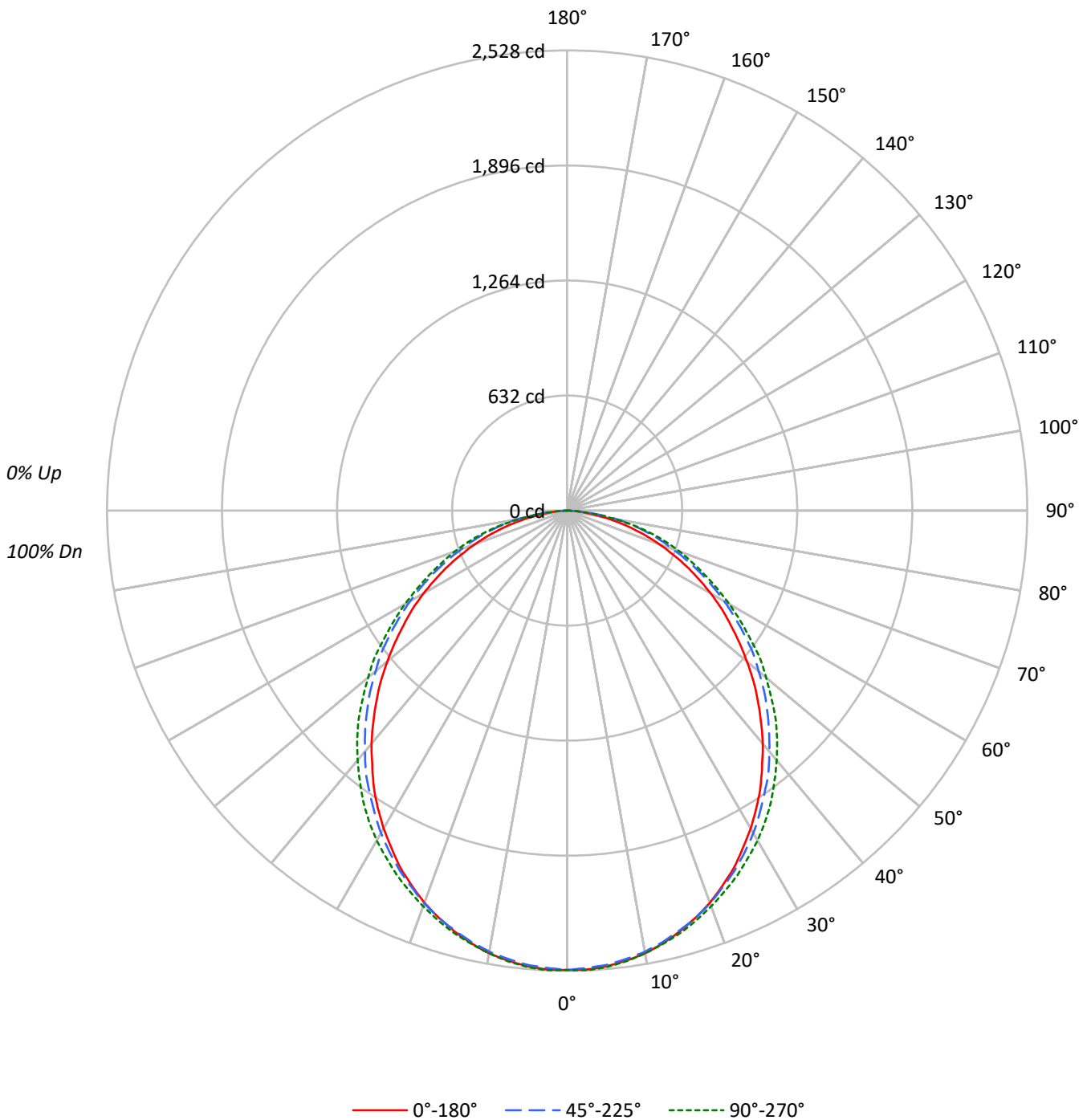
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	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	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3865	3865	3865
5°	3863	3852	3869
10°	3841	3827	3841
15°	3795	3787	3810
20°	3738	3744	3771
25°	3662	3684	3737
30°	3565	3618	3700
35°	3464	3536	3651
40°	3343	3454	3581
45°	3211	3368	3509
50°	3071	3275	3399
55°	2930	3173	3278
60°	2792	3053	3151
65°	2622	2919	3020
70°	2407	2765	2940
75°	2113	2652	2796
80°	1706	2477	2345
85°	1209	1634	1307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	3.6
10°-20°	675.3	10.1
20°-30°	1006.2	15.0
30°-40°	1187.0	17.7
40°-50°	1198.4	17.9
50°-60°	1052.5	15.7
60°-70°	785.0	11.7
70°-80°	457.2	6.8
80°-90°	109.2	1.6
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°	1919.7	28.6
0°-40°	3106.7	46.3
0°-60°	5357.7	79.9
0°-90°	6709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6709.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2513	2511	2505	2513	2516	238
15°	2394	2392	2388	2399	2403	675
25°	2167	2168	2180	2204	2211	996
35°	1852	1864	1891	1936	1953	1157
45°	1482	1505	1555	1601	1620	1144
55°	1097	1131	1188	1226	1228	983
65°	724	753	805	830	833	715
75°	357	400	448	470	472	381
85°	69	100	93	78	74	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2523.7	2523.7	2523.7	2523.7	2523.7
2.5°	2523.7	2521.9	2514.4	2521.9	2527.5
5°	2512.6	2510.7	2505.1	2512.6	2516.3
7.5°	2494.0	2492.1	2484.7	2495.8	2497.7
10°	2469.8	2466.1	2460.5	2467.9	2469.8
12.5°	2434.5	2432.6	2427.0	2436.3	2438.2
15°	2393.5	2391.7	2388.0	2399.1	2402.8
17.5°	2345.2	2347.1	2345.2	2358.2	2360.1
20°	2293.1	2295.0	2296.8	2311.7	2313.6
22.5°	2229.9	2231.7	2237.3	2257.8	2263.4
25°	2166.7	2168.5	2179.7	2203.9	2211.3
27.5°	2090.4	2097.8	2114.6	2144.3	2151.8
30°	2016.0	2023.5	2045.8	2081.1	2092.3
32.5°	1936.0	1943.5	1969.5	2008.6	2025.3
35°	1852.4	1863.5	1891.4	1936.0	1952.8
37.5°	1759.4	1779.8	1817.0	1859.8	1870.9
40°	1672.0	1686.8	1727.7	1779.8	1791.0
42.5°	1577.1	1597.6	1642.2	1694.3	1707.3
45°	1482.3	1504.6	1554.8	1601.3	1619.9
47.5°	1389.3	1413.4	1467.4	1515.7	1521.3
50°	1288.8	1318.6	1374.4	1420.9	1426.5
52.5°	1192.1	1227.5	1287.0	1324.2	1337.2
55°	1097.3	1130.8	1188.4	1225.6	1227.5
57.5°	1008.0	1035.9	1091.7	1123.3	1128.9
60°	911.3	939.2	996.8	1022.9	1028.5
62.5°	814.6	844.3	900.1	926.2	929.9
65°	723.5	753.2	805.3	829.5	833.2
67.5°	626.7	663.9	708.6	740.2	743.9
70°	537.5	574.7	617.5	649.1	656.5
72.5°	448.2	491.0	533.8	557.9	567.2
75°	357.1	399.9	448.2	470.5	472.4
77.5°	273.4	314.3	364.5	377.5	372.0
80°	193.4	238.1	280.8	279.0	265.9
82.5°	122.7	165.5	182.3	171.1	163.7
85°	68.8	100.4	93.0	78.1	74.4
87.5°	27.9	29.8	22.3	14.9	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)