

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: P229425

Luminaire Tested: **24ALNG-LD5-50-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229425
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-LD5-50-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: 4761.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

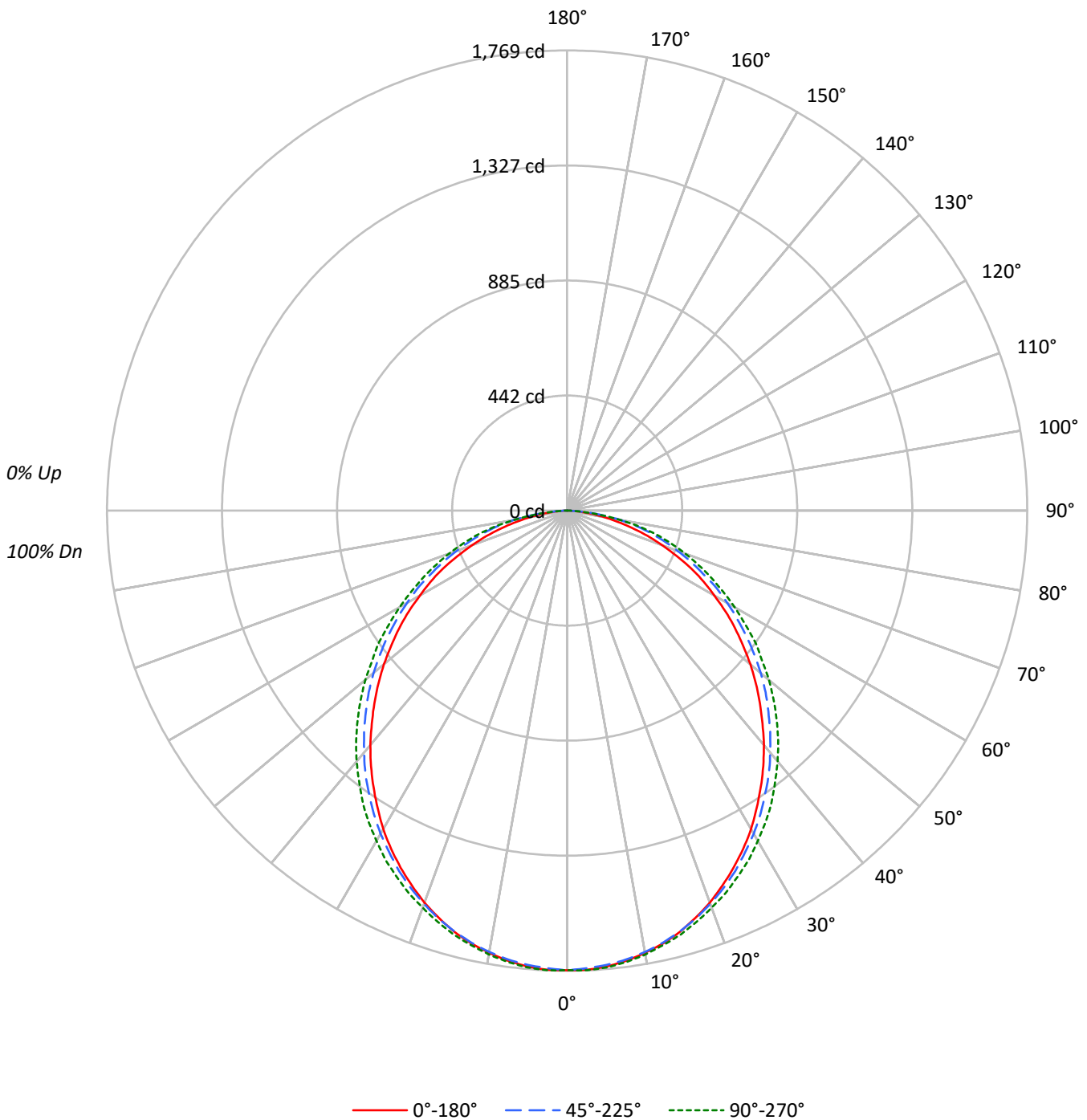
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2707	2707	2707
5°	2705	2695	2710
10°	2685	2680	2695
15°	2658	2655	2675
20°	2614	2622	2648
25°	2559	2583	2623
30°	2501	2537	2593
35°	2427	2482	2562
40°	2353	2429	2517
45°	2271	2369	2468
50°	2191	2315	2412
55°	2104	2246	2359
60°	2000	2178	2279
65°	1906	2093	2218
70°	1743	2017	2158
75°	1523	1950	2099
80°	1274	1828	1813
85°	882	1297	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.5
10°-20°	473.3	9.9
20°-30°	705.6	14.8
30°-40°	833.0	17.5
40°-50°	844.3	17.7
50°-60°	748.8	15.7
60°-70°	568.0	11.9
70°-80°	336.4	7.1
80°-90°	84.8	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°	1345.7	28.3
0°-40°	2178.7	45.8
0°-60°	3771.8	79.2
0°-90°	4761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1759	1758	1753	1759	1762	167
15°	1676	1676	1675	1682	1687	472
25°	1514	1518	1529	1548	1552	697
35°	1298	1309	1328	1358	1370	812
45°	1048	1062	1094	1127	1139	809
55°	788	804	841	873	884	704
65°	526	542	578	603	612	518
75°	257	292	330	347	355	276
85°	50	75	74	68	66	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.2	1767.2	1767.2	1767.2	1767.2
2.5°	1767.2	1765.6	1760.9	1767.2	1768.8
5°	1759.3	1757.8	1753.1	1759.3	1762.5
7.5°	1745.2	1745.2	1740.5	1746.8	1749.9
10°	1726.4	1726.4	1723.2	1729.5	1732.7
12.5°	1704.4	1704.4	1701.3	1709.1	1710.7
15°	1676.2	1676.2	1674.6	1682.4	1687.1
17.5°	1641.6	1641.6	1644.8	1655.8	1657.3
20°	1604.0	1605.5	1608.7	1622.8	1624.4
22.5°	1560.0	1564.7	1571.0	1586.7	1591.4
25°	1514.5	1517.6	1528.6	1547.5	1552.2
27.5°	1465.9	1470.6	1481.5	1505.1	1512.9
30°	1414.1	1417.2	1434.5	1458.0	1465.9
32.5°	1356.0	1363.8	1382.7	1410.9	1420.3
35°	1297.9	1308.9	1327.7	1357.6	1370.1
37.5°	1238.3	1247.7	1274.4	1304.2	1313.6
40°	1177.1	1186.5	1214.7	1247.7	1258.7
42.5°	1111.2	1125.3	1155.1	1188.1	1200.6
45°	1048.4	1062.5	1093.9	1126.9	1139.4
47.5°	984.0	998.2	1034.3	1062.5	1076.6
50°	919.7	937.0	971.5	1001.3	1012.3
52.5°	852.2	869.5	905.6	935.4	943.2
55°	787.9	803.5	841.2	872.6	883.6
57.5°	721.9	739.2	775.3	806.7	809.8
60°	652.9	671.7	711.0	736.1	743.9
62.5°	591.7	607.4	649.7	670.1	674.9
65°	525.8	541.5	577.6	602.7	612.1
67.5°	455.1	477.1	514.8	539.9	546.2
70°	389.2	415.9	450.4	477.1	481.8
72.5°	323.3	351.6	390.8	412.8	417.5
75°	257.4	291.9	329.6	346.8	354.7
77.5°	199.3	232.3	269.9	285.6	284.1
80°	144.4	177.3	207.2	207.2	205.6
82.5°	92.6	125.6	141.2	136.5	133.4
85°	50.2	75.3	73.8	67.5	65.9
87.5°	20.4	25.1	18.8	14.1	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)