

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: P229365

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229365
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-L830-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: 6441.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

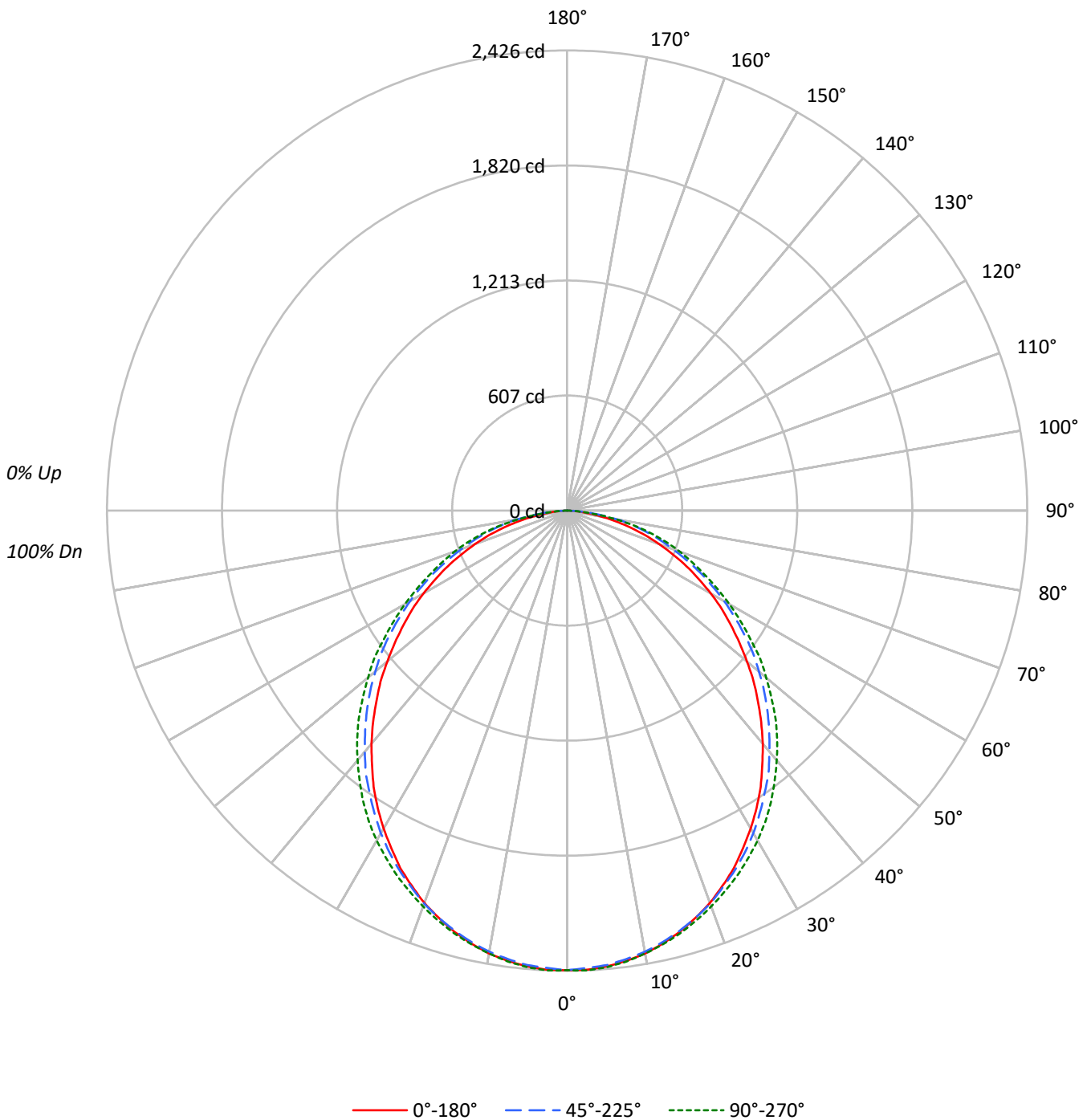
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3711	3711	3711
5°	3709	3698	3714
10°	3688	3674	3688
15°	3644	3635	3658
20°	3588	3594	3620
25°	3515	3536	3588
30°	3423	3473	3553
35°	3325	3395	3505
40°	3209	3316	3438
45°	3082	3233	3369
50°	2948	3144	3263
55°	2813	3047	3147
60°	2680	2932	3025
65°	2517	2802	2899
70°	2311	2655	2823
75°	2029	2546	2684
80°	1638	2378	2252
85°	1162	1569	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.6
10°-20°	648.3	10.1
20°-30°	966.0	15.0
30°-40°	1139.6	17.7
40°-50°	1150.5	17.9
50°-60°	1010.5	15.7
60°-70°	753.6	11.7
70°-80°	438.9	6.8
80°-90°	104.8	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°	1843.0	28.6
0°-40°	2982.6	46.3
0°-60°	5143.6	79.9
0°-90°	6441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2423	2423	2423	2423	2423	
5°	2412	2410	2405	2412	2416	229
15°	2298	2296	2293	2303	2307	648
25°	2080	2082	2093	2116	2123	956
35°	1778	1789	1816	1859	1875	1110
45°	1423	1444	1493	1537	1555	1098
55°	1053	1086	1141	1177	1178	944
65°	695	723	773	796	800	686
75°	343	384	430	452	454	365
85°	66	96	89	75	71	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2422.9	2422.9	2422.9	2422.9	2422.9
2.5°	2422.9	2421.1	2414.0	2421.1	2426.5
5°	2412.2	2410.4	2405.1	2412.2	2415.8
7.5°	2394.4	2392.6	2385.4	2396.1	2397.9
10°	2371.1	2367.6	2362.2	2369.4	2371.1
12.5°	2337.2	2335.4	2330.1	2339.0	2340.8
15°	2297.9	2296.2	2292.6	2303.3	2306.9
17.5°	2251.5	2253.3	2251.5	2264.0	2265.8
20°	2201.5	2203.3	2205.1	2219.4	2221.2
22.5°	2140.8	2142.6	2148.0	2167.6	2173.0
25°	2080.1	2081.9	2092.6	2115.8	2123.0
27.5°	2006.9	2014.0	2030.1	2058.7	2065.8
30°	1935.5	1942.6	1964.0	1998.0	2008.7
32.5°	1858.7	1865.8	1890.8	1928.3	1944.4
35°	1778.4	1789.1	1815.9	1858.7	1874.8
37.5°	1689.1	1708.7	1744.4	1785.5	1796.2
40°	1605.2	1619.4	1658.7	1708.7	1719.4
42.5°	1514.1	1533.7	1576.6	1626.6	1639.1
45°	1423.0	1444.5	1492.7	1537.3	1555.2
47.5°	1333.8	1357.0	1408.8	1455.2	1460.5
50°	1237.4	1265.9	1319.5	1364.1	1369.5
52.5°	1144.5	1178.4	1235.6	1271.3	1283.8
55°	1053.4	1085.6	1140.9	1176.6	1178.4
57.5°	967.7	994.5	1048.1	1078.4	1083.8
60°	874.9	901.7	957.0	982.0	987.4
62.5°	782.0	810.6	864.2	889.2	892.7
65°	694.6	723.1	773.1	796.3	799.9
67.5°	601.7	637.4	680.3	710.6	714.2
70°	516.0	551.7	592.8	623.1	630.3
72.5°	430.3	471.4	512.4	535.6	544.6
75°	342.8	383.9	430.3	451.7	453.5
77.5°	262.5	301.7	350.0	362.5	357.1
80°	185.7	228.5	269.6	267.8	255.3
82.5°	117.8	158.9	175.0	164.3	157.1
85°	66.1	96.4	89.3	75.0	71.4
87.5°	26.8	28.6	21.4	14.3	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)