

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: P229429

Luminaire Tested: **24ALNG-LD5-74-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229429
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-LD5-74-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: 7026.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

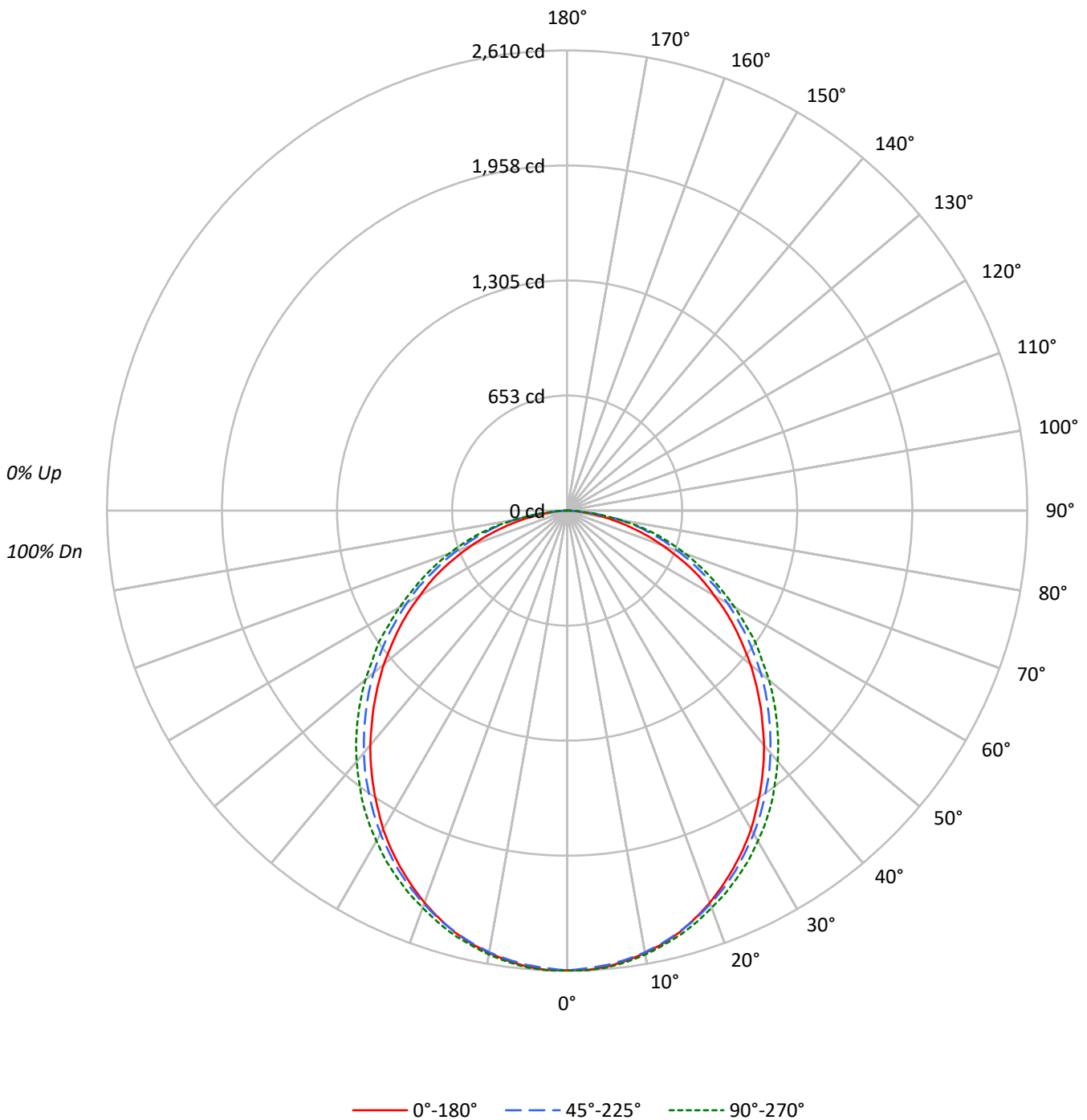
Input Watts (W): 60.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3994	3994	3994
5°	3992	3978	3999
10°	3962	3955	3977
15°	3922	3919	3948
20°	3858	3869	3907
25°	3777	3812	3871
30°	3691	3744	3826
35°	3581	3664	3780
40°	3473	3584	3714
45°	3351	3497	3642
50°	3234	3416	3560
55°	3105	3315	3482
60°	2951	3214	3363
65°	2812	3089	3274
70°	2572	2977	3184
75°	2248	2878	3097
80°	1880	2696	2676
85°	1302	1914	1710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	3.5
10°-20°	698.5	9.9
20°-30°	1041.3	14.8
30°-40°	1229.3	17.5
40°-50°	1246.0	17.7
50°-60°	1105.1	15.7
60°-70°	838.2	11.9
70°-80°	496.4	7.1
80°-90°	125.2	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°	1985.9	28.3
0°-40°	3215.2	45.8
0°-60°	5566.2	79.2
0°-90°	7026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2608	2608	2608	2608	2608	
5°	2596	2594	2587	2596	2601	246
15°	2474	2474	2471	2483	2490	697
25°	2235	2240	2256	2284	2291	1029
35°	1915	1932	1959	2003	2022	1198
45°	1547	1568	1614	1663	1682	1194
55°	1163	1186	1241	1288	1304	1039
65°	776	799	852	889	903	764
75°	380	431	486	512	523	407
85°	74	111	109	100	97	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2607.9	2607.9	2607.9	2607.9	2607.9
2.5°	2607.9	2605.6	2598.6	2607.9	2610.2
5°	2596.3	2594.0	2587.1	2596.3	2601.0
7.5°	2575.5	2575.5	2568.5	2577.8	2582.4
10°	2547.7	2547.7	2543.1	2552.3	2556.9
12.5°	2515.3	2515.3	2510.6	2522.2	2524.5
15°	2473.6	2473.6	2471.3	2482.8	2489.8
17.5°	2422.6	2422.6	2427.2	2443.5	2445.8
20°	2367.0	2369.3	2374.0	2394.8	2397.1
22.5°	2302.2	2309.1	2318.4	2341.6	2348.5
25°	2235.0	2239.6	2255.9	2283.7	2290.6
27.5°	2163.2	2170.2	2186.4	2221.1	2232.7
30°	2086.8	2091.4	2116.9	2151.6	2163.2
32.5°	2001.1	2012.7	2040.5	2082.2	2096.0
35°	1915.4	1931.6	1959.4	2003.4	2021.9
37.5°	1827.4	1841.3	1880.7	1924.7	1938.6
40°	1737.1	1751.0	1792.6	1841.3	1857.5
42.5°	1639.8	1660.6	1704.6	1753.3	1771.8
45°	1547.1	1568.0	1614.3	1662.9	1681.5
47.5°	1452.2	1473.0	1526.3	1568.0	1588.8
50°	1357.2	1382.7	1433.7	1477.7	1493.9
52.5°	1257.6	1283.1	1336.4	1380.4	1392.0
55°	1162.7	1185.8	1241.4	1287.7	1304.0
57.5°	1065.4	1090.9	1144.1	1190.5	1195.1
60°	963.5	991.3	1049.2	1086.2	1097.8
62.5°	873.2	896.3	958.9	989.0	995.9
65°	775.9	799.0	852.3	889.4	903.3
67.5°	671.7	704.1	759.7	796.7	806.0
70°	574.4	613.8	664.7	704.1	711.0
72.5°	477.1	518.8	576.7	609.1	616.1
75°	379.8	430.8	486.4	511.9	523.4
77.5°	294.1	342.8	398.4	421.5	419.2
80°	213.1	261.7	305.7	305.7	303.4
82.5°	136.6	185.3	208.4	201.5	196.9
85°	74.1	111.2	108.9	99.6	97.3
87.5°	30.1	37.1	27.8	20.8	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)