

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: P229383

Luminaire Tested: **24ALNG-LD5-55-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229383
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-LD5-55-UNV-L840-CD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5565.0 lumens
Efficiency: N/A
Efficacy: 135.4 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

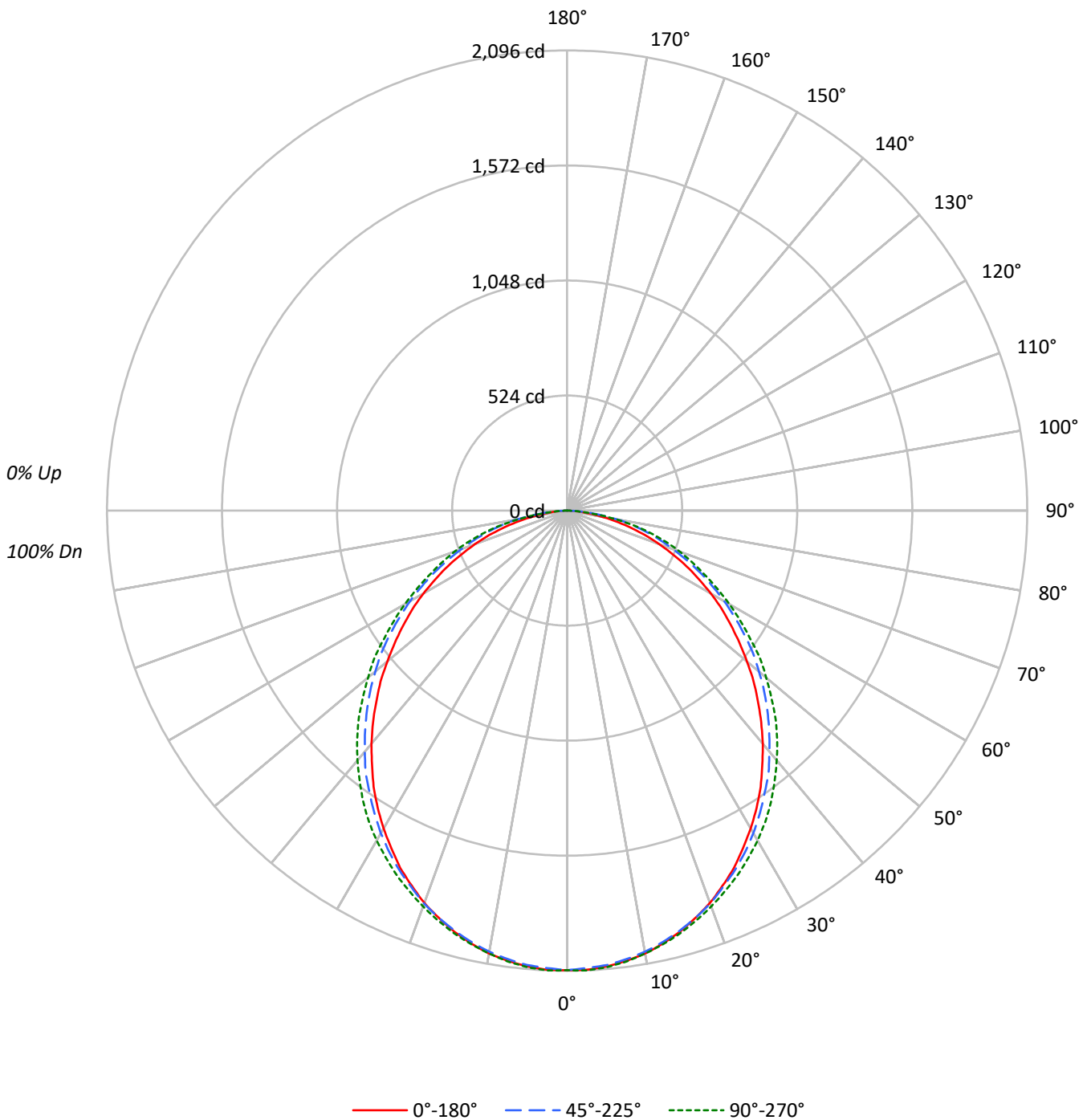
Input Watts (W): 41.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3206	3206	3206
5°	3204	3195	3209
10°	3186	3174	3186
15°	3148	3141	3160
20°	3100	3105	3128
25°	3037	3055	3100
30°	2957	3001	3069
35°	2873	2933	3029
40°	2773	2865	2970
45°	2663	2794	2911
50°	2547	2716	2819
55°	2431	2632	2719
60°	2316	2533	2613
65°	2175	2421	2505
70°	1996	2294	2439
75°	1753	2200	2319
80°	1415	2054	1946
85°	1003	1355	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	3.6
10°-20°	560.1	10.1
20°-30°	834.6	15.0
30°-40°	984.6	17.7
40°-50°	994.1	17.9
50°-60°	873.0	15.7
60°-70°	651.1	11.7
70°-80°	379.3	6.8
80°-90°	90.6	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°	1592.3	28.6
0°-40°	2577.0	46.3
0°-60°	4444.1	79.9
0°-90°	5565.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5565.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2093	2093	2093	2093	2093	
5°	2084	2083	2078	2084	2087	198
15°	1985	1984	1981	1990	1993	560
25°	1797	1799	1808	1828	1834	826
35°	1536	1546	1569	1606	1620	959
45°	1230	1248	1290	1328	1344	949
55°	910	938	986	1017	1018	815
65°	600	625	668	688	691	593
75°	296	332	372	390	392	316
85°	57	83	77	65	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.4	2093.4	2093.4	2093.4	2093.4
2.5°	2093.4	2091.9	2085.7	2091.9	2096.5
5°	2084.1	2082.6	2078.0	2084.1	2087.2
7.5°	2068.7	2067.2	2061.0	2070.3	2071.8
10°	2048.7	2045.6	2040.9	2047.1	2048.7
12.5°	2019.3	2017.8	2013.2	2020.9	2022.4
15°	1985.4	1983.9	1980.8	1990.0	1993.1
17.5°	1945.3	1946.8	1945.3	1956.1	1957.6
20°	1902.1	1903.6	1905.2	1917.5	1919.1
22.5°	1849.7	1851.2	1855.8	1872.8	1877.4
25°	1797.2	1798.7	1808.0	1828.1	1834.2
27.5°	1734.0	1740.1	1754.0	1778.7	1784.9
30°	1672.2	1678.4	1696.9	1726.2	1735.5
32.5°	1605.9	1612.1	1633.7	1666.1	1680.0
35°	1536.5	1545.7	1568.9	1605.9	1619.8
37.5°	1459.4	1476.3	1507.2	1542.7	1551.9
40°	1386.9	1399.2	1433.1	1476.3	1485.6
42.5°	1308.2	1325.1	1362.2	1405.4	1416.2
45°	1229.5	1248.0	1289.7	1328.2	1343.7
47.5°	1152.4	1172.4	1217.2	1257.3	1261.9
50°	1069.1	1093.7	1140.0	1178.6	1183.2
52.5°	988.8	1018.2	1067.5	1098.4	1109.2
55°	910.2	937.9	985.8	1016.6	1018.2
57.5°	836.1	859.3	905.5	931.8	936.4
60°	755.9	779.0	826.9	848.5	853.1
62.5°	675.7	700.4	746.6	768.2	771.3
65°	600.1	624.8	668.0	688.0	691.1
67.5°	519.9	550.7	587.8	614.0	617.1
70°	445.8	476.7	512.2	538.4	544.6
72.5°	371.8	407.3	442.7	462.8	470.5
75°	296.2	331.7	371.8	390.3	391.8
77.5°	226.8	260.7	302.4	313.2	308.5
80°	160.4	197.5	232.9	231.4	220.6
82.5°	101.8	137.3	151.2	141.9	135.8
85°	57.1	83.3	77.1	64.8	61.7
87.5°	23.1	24.7	18.5	12.3	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)