

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: P239034

Luminaire Tested: **24ENA-LD2-74-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-74-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6282.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

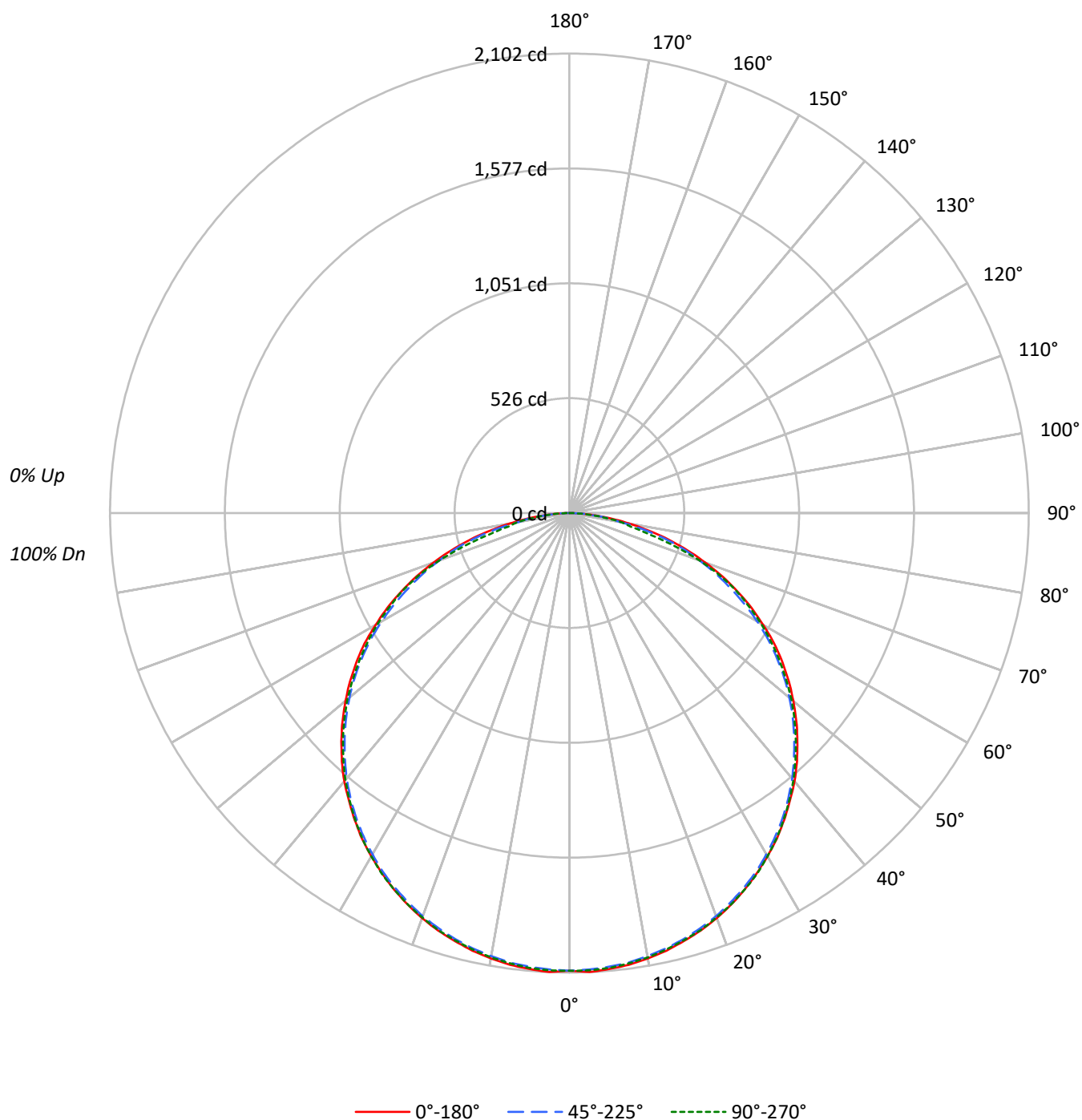
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3527	3527	3527
5°	3541	3523	3532
10°	3539	3521	3530
15°	3535	3519	3528
20°	3535	3519	3530
25°	3531	3514	3531
30°	3527	3506	3527
35°	3523	3499	3518
40°	3525	3487	3508
45°	3516	3466	3491
50°	3506	3444	3475
55°	3493	3408	3443
60°	3450	3344	3415
65°	3381	3239	3359
70°	3259	3123	3117
75°	3068	2931	2478
80°	2700	2293	2356
85°	2132	2005	1852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	3.2
10°-20°	570.4	9.1
20°-30°	872.8	13.9
30°-40°	1066.8	17.0
40°-50°	1127.3	17.9
50°-60°	1044.5	16.6
60°-70°	818.3	13.0
70°-80°	462.6	7.4
80°-90°	121.8	1.9
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°	1641.4	26.1
0°-40°	2708.2	43.1
0°-60°	4879.9	77.7
0°-90°	6282.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6282.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2094	2087	2083	2082	2088	199
15°	2027	2019	2018	2016	2023	573
25°	1900	1892	1890	1890	1900	876
35°	1713	1705	1701	1701	1710	1073
45°	1476	1465	1454	1454	1465	1139
55°	1189	1176	1160	1163	1172	1062
65°	848	832	813	823	843	838
75°	471	458	450	402	381	496
85°	110	104	104	98	96	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.7	2093.7	2093.7	2093.7	2093.7
2.5°	2101.6	2092.4	2089.8	2087.2	2093.7
5°	2093.7	2087.2	2083.2	2081.9	2088.5
7.5°	2084.6	2076.7	2074.1	2071.4	2078.0
10°	2068.8	2060.9	2058.3	2057.0	2063.6
12.5°	2050.4	2041.2	2039.9	2038.6	2045.2
15°	2026.8	2018.9	2017.6	2016.3	2022.9
17.5°	2001.9	1994.0	1991.4	1990.0	1999.2
20°	1971.7	1963.8	1962.5	1961.2	1969.0
22.5°	1937.5	1929.7	1927.0	1928.3	1936.2
25°	1899.5	1891.6	1890.3	1890.3	1899.5
27.5°	1857.5	1849.6	1849.6	1849.6	1860.1
30°	1812.8	1806.3	1802.3	1803.6	1812.8
32.5°	1766.9	1756.4	1753.8	1755.1	1764.3
35°	1713.1	1705.2	1701.2	1701.2	1710.4
37.5°	1657.9	1650.1	1644.8	1644.8	1654.0
40°	1602.8	1591.0	1585.7	1583.1	1594.9
42.5°	1541.1	1531.9	1520.1	1520.1	1530.6
45°	1475.5	1465.0	1454.5	1454.5	1465.0
47.5°	1408.5	1398.0	1386.2	1386.2	1396.7
50°	1337.6	1327.1	1314.0	1314.0	1325.8
52.5°	1265.4	1253.6	1239.2	1237.9	1249.7
55°	1189.3	1176.2	1160.4	1163.0	1172.2
57.5°	1111.8	1094.8	1079.0	1079.0	1093.5
60°	1023.9	1009.5	992.4	995.0	1013.4
62.5°	939.9	921.5	904.4	911.0	926.8
65°	848.0	832.2	812.6	823.1	842.7
67.5°	757.4	740.4	724.6	737.7	746.9
70°	661.6	645.8	634.0	634.0	632.7
72.5°	565.8	551.3	548.7	523.8	508.0
75°	471.3	458.1	450.3	401.7	380.7
77.5°	372.8	368.9	343.9	292.7	286.2
80°	278.3	280.9	236.3	237.6	242.8
82.5°	191.7	187.7	177.2	169.3	166.7
85°	110.3	103.7	103.7	98.5	95.8
87.5°	36.8	40.7	40.7	40.7	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)