

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: P239029

Luminaire Tested: **24ENA-LD2-70-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239029
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-LD2-70-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5738.4 lumens
Efficiency: N/A
Efficacy: 95.3 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

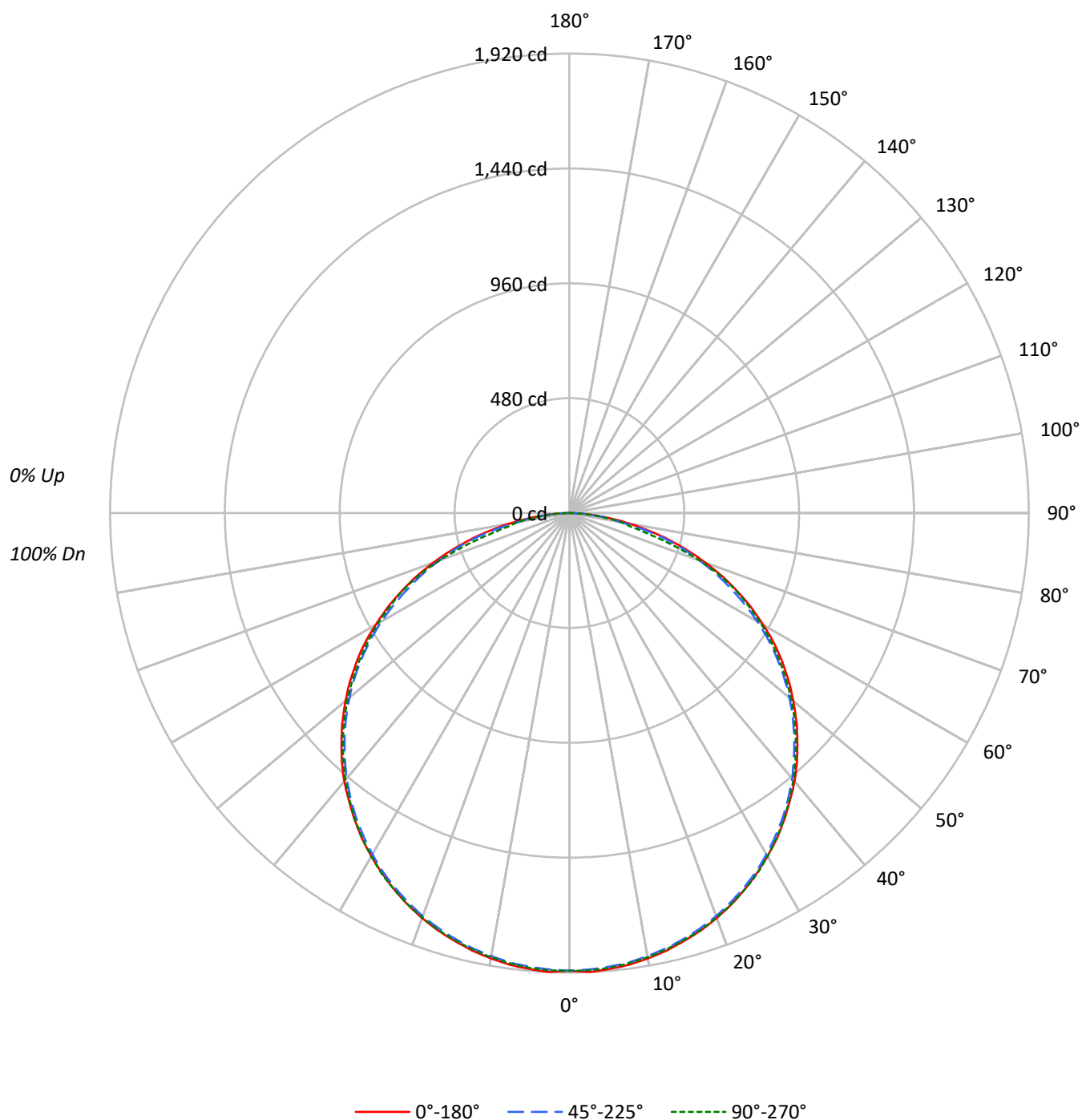
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3222	3222	3222
5°	3234	3218	3226
10°	3233	3216	3224
15°	3229	3214	3223
20°	3229	3214	3225
25°	3225	3209	3225
30°	3221	3203	3221
35°	3218	3196	3213
40°	3220	3186	3204
45°	3211	3165	3188
50°	3202	3146	3174
55°	3191	3113	3145
60°	3151	3054	3119
65°	3088	2959	3068
70°	2977	2853	2847
75°	2802	2677	2263
80°	2466	2094	2152
85°	1947	1831	1691



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	3.2
10°-20°	520.9	9.1
20°-30°	797.2	13.9
30°-40°	974.4	17.0
40°-50°	1029.6	17.9
50°-60°	954.0	16.6
60°-70°	747.4	13.0
70°-80°	422.5	7.4
80°-90°	111.3	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°	1499.2	26.1
0°-40°	2473.6	43.1
0°-60°	4457.2	77.7
0°-90°	5738.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5738.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1912	1906	1903	1902	1908	182
15°	1851	1844	1843	1842	1848	523
25°	1735	1728	1726	1726	1735	800
35°	1565	1558	1554	1554	1562	980
45°	1348	1338	1328	1328	1338	1040
55°	1086	1074	1060	1062	1071	970
65°	774	760	742	752	770	766
75°	430	418	411	367	348	453
85°	101	95	95	90	88	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.4	1912.4	1912.4	1912.4	1912.4
2.5°	1919.6	1911.2	1908.8	1906.4	1912.4
5°	1912.4	1906.4	1902.8	1901.6	1907.6
7.5°	1904.0	1896.8	1894.4	1892.0	1898.0
10°	1889.6	1882.4	1880.0	1878.8	1884.8
12.5°	1872.8	1864.4	1863.2	1862.0	1868.0
15°	1851.2	1844.0	1842.8	1841.6	1847.6
17.5°	1828.5	1821.3	1818.9	1817.7	1826.1
20°	1800.9	1793.7	1792.5	1791.3	1798.5
22.5°	1769.7	1762.5	1760.1	1761.3	1768.5
25°	1734.9	1727.7	1726.5	1726.5	1734.9
27.5°	1696.6	1689.4	1689.4	1689.4	1699.0
30°	1655.8	1649.8	1646.2	1647.4	1655.8
32.5°	1613.8	1604.2	1601.8	1603.0	1611.4
35°	1564.7	1557.5	1553.9	1553.9	1562.3
37.5°	1514.3	1507.1	1502.3	1502.3	1510.7
40°	1464.0	1453.2	1448.4	1446.0	1456.8
42.5°	1407.6	1399.2	1388.4	1388.4	1398.0
45°	1347.7	1338.1	1328.5	1328.5	1338.1
47.5°	1286.5	1276.9	1266.1	1266.1	1275.7
50°	1221.8	1212.2	1200.2	1200.2	1211.0
52.5°	1155.8	1145.0	1131.8	1130.6	1141.4
55°	1086.3	1074.3	1059.9	1062.3	1070.7
57.5°	1015.5	1000.0	985.6	985.6	998.8
60°	935.2	922.0	906.4	908.8	925.6
62.5°	858.5	841.7	826.1	832.1	846.5
65°	774.5	760.2	742.2	751.8	769.7
67.5°	691.8	676.2	661.8	673.8	682.2
70°	604.3	589.9	579.1	579.1	577.9
72.5°	516.8	503.6	501.2	478.4	464.0
75°	430.4	418.4	411.3	366.9	347.7
77.5°	340.5	336.9	314.1	267.4	261.4
80°	254.2	256.6	215.8	217.0	221.8
82.5°	175.1	171.5	161.9	154.7	152.3
85°	100.7	94.7	94.7	89.9	87.5
87.5°	33.6	37.2	37.2	37.2	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)