

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: P239030

Luminaire Tested: **24ENA-LD2-70-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239030
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-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: 5895.6 lumens
Efficiency: N/A
Efficacy: 97.9 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

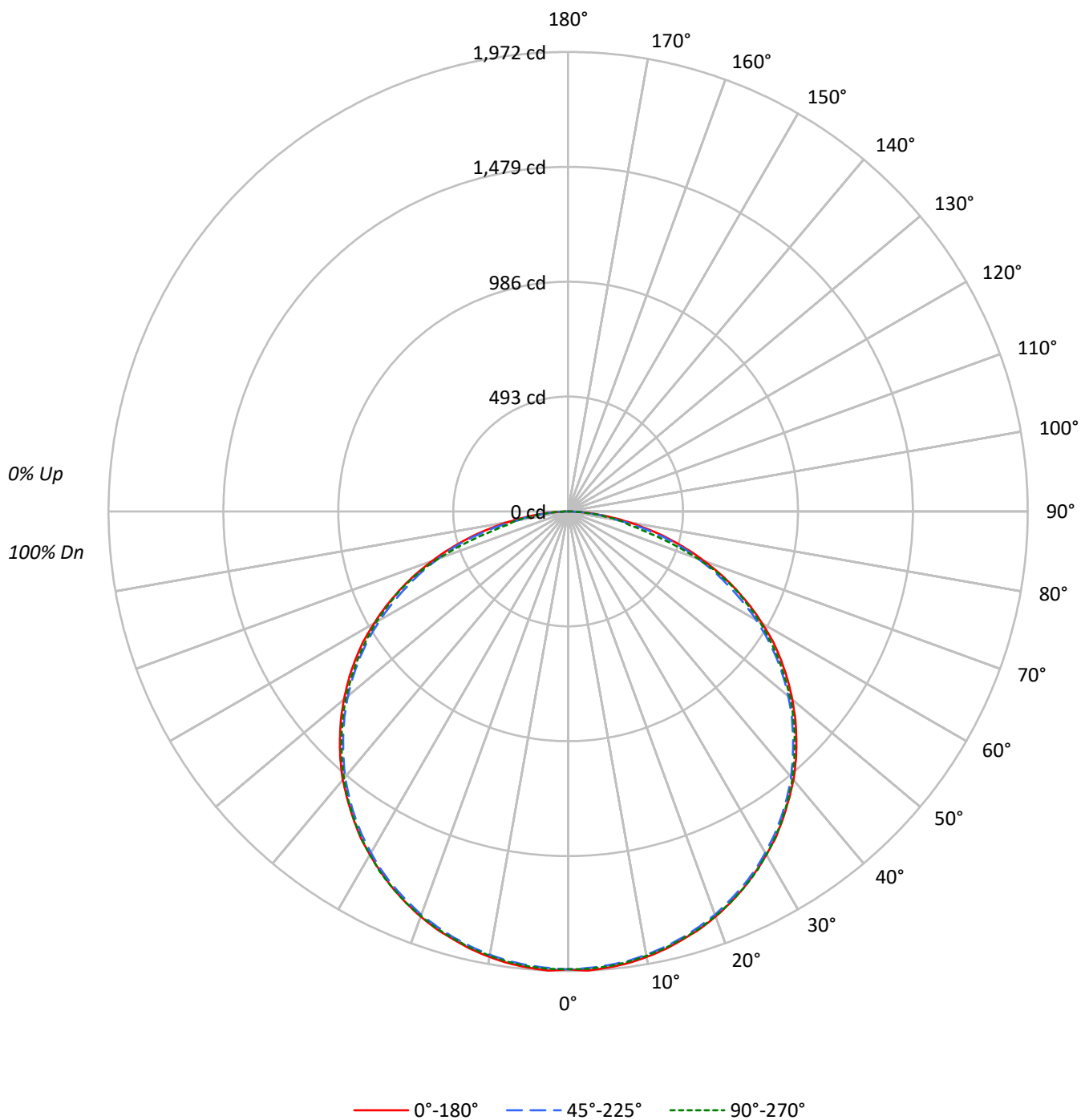
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P239030

CATALOG NUMBER: 24ENA-LD2-70-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P239030

CATALOG NUMBER: 24ENA-LD2-70-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3310	3310	3310
5°	3323	3306	3314
10°	3321	3304	3313
15°	3317	3302	3311
20°	3317	3302	3313
25°	3314	3297	3314
30°	3310	3290	3310
35°	3306	3284	3301
40°	3308	3273	3292
45°	3299	3252	3275
50°	3290	3232	3261
55°	3278	3198	3231
60°	3237	3138	3204
65°	3172	3040	3153
70°	3058	2931	2925
75°	2879	2750	2325
80°	2533	2151	2211
85°	2001	1881	1738



TEST NUMBER: P239030

CATALOG NUMBER: 24ENA-LD2-70-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	3.2
10°-20°	535.2	9.1
20°-30°	819.0	13.9
30°-40°	1001.1	17.0
40°-50°	1057.8	17.9
50°-60°	980.1	16.6
60°-70°	767.9	13.0
70°-80°	434.1	7.4
80°-90°	114.3	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°	1540.3	26.1
0°-40°	2541.4	43.1
0°-60°	4579.3	77.7
0°-90°	5895.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5895.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1965	1959	1955	1954	1960	187
15°	1902	1895	1893	1892	1898	537
25°	1782	1775	1774	1774	1782	822
35°	1608	1600	1596	1596	1605	1006
45°	1385	1375	1365	1365	1375	1068
55°	1116	1104	1089	1091	1100	997
65°	796	781	762	772	791	787
75°	442	430	422	377	357	465
85°	104	97	97	92	90	122
90°	0	0	0	0	0	



TEST NUMBER: P239030

CATALOG NUMBER: 24ENA-LD2-70-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1964.8	1964.8	1964.8	1964.8	1964.8
2.5°	1972.2	1963.5	1961.1	1958.6	1964.8
5°	1964.8	1958.6	1954.9	1953.7	1959.8
7.5°	1956.1	1948.8	1946.3	1943.8	1950.0
10°	1941.4	1934.0	1931.5	1930.3	1936.4
12.5°	1924.1	1915.5	1914.3	1913.0	1919.2
15°	1901.9	1894.6	1893.3	1892.1	1898.3
17.5°	1878.5	1871.2	1868.7	1867.5	1876.1
20°	1850.2	1842.8	1841.6	1840.4	1847.7
22.5°	1818.2	1810.8	1808.3	1809.6	1817.0
25°	1782.5	1775.1	1773.8	1773.8	1782.5
27.5°	1743.0	1735.7	1735.7	1735.7	1745.5
30°	1701.2	1695.0	1691.3	1692.5	1701.2
32.5°	1658.0	1648.2	1645.7	1647.0	1655.6
35°	1607.5	1600.2	1596.5	1596.5	1605.1
37.5°	1555.8	1548.4	1543.5	1543.5	1552.1
40°	1504.1	1493.0	1488.1	1485.6	1496.7
42.5°	1446.2	1437.5	1426.5	1426.5	1436.3
45°	1384.6	1374.7	1364.9	1364.9	1374.7
47.5°	1321.8	1311.9	1300.8	1300.8	1310.7
50°	1255.2	1245.4	1233.1	1233.1	1244.2
52.5°	1187.5	1176.4	1162.8	1161.6	1172.7
55°	1116.0	1103.7	1088.9	1091.4	1100.0
57.5°	1043.4	1027.3	1012.6	1012.6	1026.1
60°	960.8	947.3	931.3	933.7	951.0
62.5°	882.0	864.7	848.7	854.9	869.7
65°	795.8	781.0	762.5	772.4	790.8
67.5°	710.8	694.8	680.0	692.3	700.9
70°	620.8	606.1	595.0	595.0	593.7
72.5°	530.9	517.4	514.9	491.5	476.7
75°	442.2	429.9	422.5	376.9	357.2
77.5°	349.8	346.1	322.7	274.7	268.5
80°	261.1	263.6	221.7	223.0	227.9
82.5°	179.8	176.2	166.3	158.9	156.4
85°	103.5	97.3	97.3	92.4	89.9
87.5°	34.5	38.2	38.2	38.2	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)