

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: P239032

Luminaire Tested: **24ENA-LD2-70-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239032
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6536.9 lumens
Efficiency: N/A
Efficacy: 108.6 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

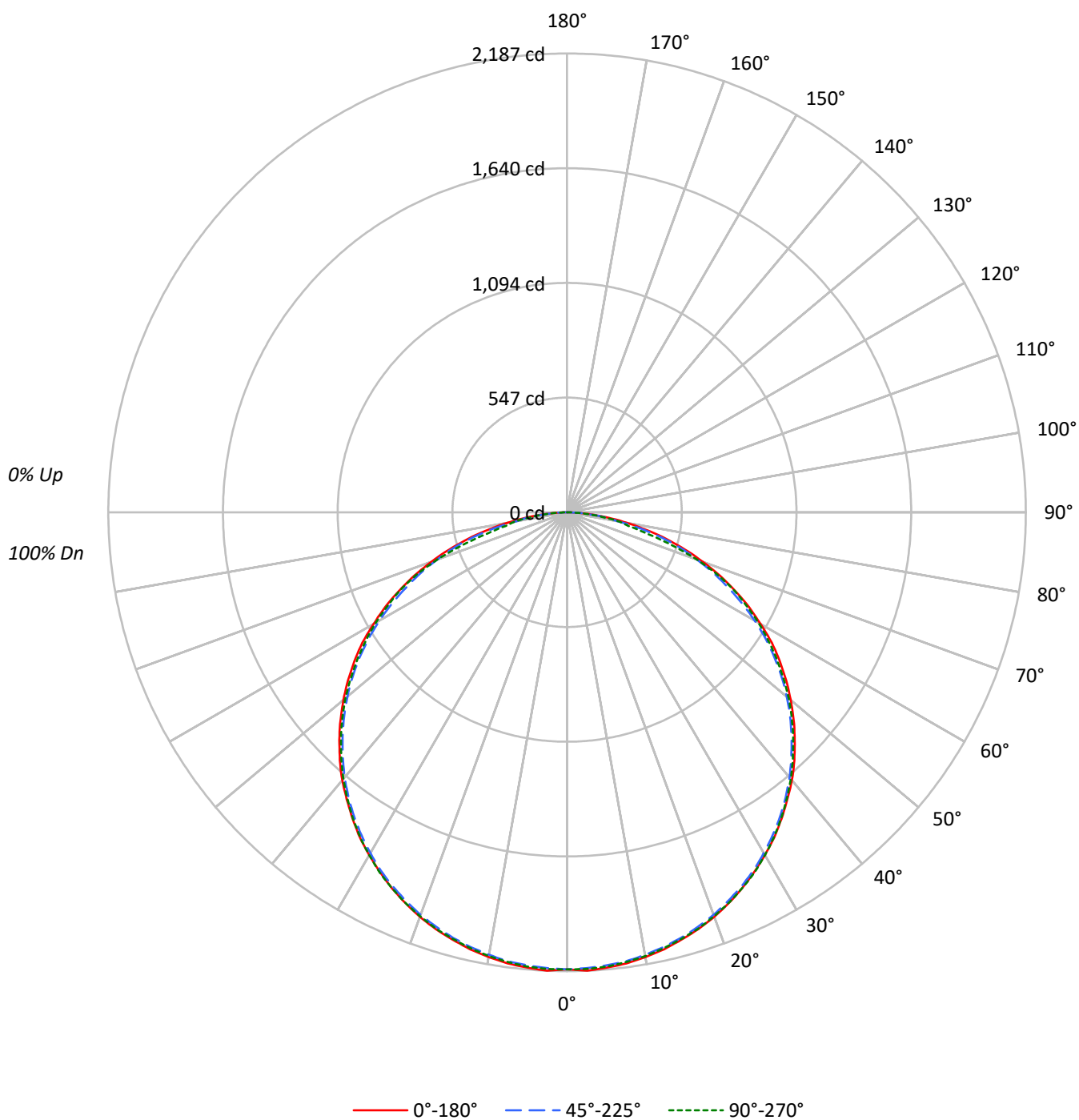
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P239032

CATALOG NUMBER: 24ENA-LD2-70-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P239032

CATALOG NUMBER: 24ENA-LD2-70-UNV-L950-CD1-U

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°	3670	3670	3670
5°	3684	3666	3675
10°	3682	3664	3673
15°	3678	3662	3671
20°	3678	3661	3673
25°	3674	3656	3674
30°	3669	3648	3669
35°	3666	3641	3660
40°	3668	3629	3650
45°	3658	3606	3632
50°	3648	3584	3616
55°	3635	3547	3583
60°	3590	3479	3553
65°	3517	3370	3496
70°	3391	3250	3243
75°	3192	3050	2578
80°	2810	2385	2452
85°	2217	2086	1927



TEST NUMBER: P239032

CATALOG NUMBER: 24ENA-LD2-70-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	3.2
10°-20°	593.4	9.1
20°-30°	908.1	13.9
30°-40°	1109.9	17.0
40°-50°	1172.9	17.9
50°-60°	1086.7	16.6
60°-70°	851.4	13.0
70°-80°	481.3	7.4
80°-90°	126.7	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°	1707.9	26.1
0°-40°	2817.8	43.1
0°-60°	5077.4	77.7
0°-90°	6536.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6536.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2178	2172	2168	2166	2173	207
15°	2109	2101	2099	2098	2105	596
25°	1976	1968	1967	1967	1976	911
35°	1782	1774	1770	1770	1780	1116
45°	1535	1524	1513	1513	1524	1185
55°	1237	1224	1207	1210	1220	1105
65°	882	866	845	856	877	872
75°	490	477	468	418	396	516
85°	115	108	108	102	100	135
90°	0	0	0	0	0	



TEST NUMBER: P239032

CATALOG NUMBER: 24ENA-LD2-70-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2178.5	2178.5	2178.5	2178.5	2178.5
2.5°	2186.7	2177.1	2174.4	2171.7	2178.5
5°	2178.5	2171.7	2167.6	2166.2	2173.0
7.5°	2168.9	2160.7	2158.0	2155.3	2162.1
10°	2152.5	2144.3	2141.6	2140.3	2147.1
12.5°	2133.4	2123.9	2122.5	2121.1	2128.0
15°	2108.8	2100.6	2099.3	2097.9	2104.7
17.5°	2082.9	2074.7	2072.0	2070.6	2080.2
20°	2051.5	2043.3	2041.9	2040.5	2048.7
22.5°	2016.0	2007.8	2005.0	2006.4	2014.6
25°	1976.4	1968.2	1966.8	1966.8	1976.4
27.5°	1932.6	1924.5	1924.5	1924.5	1935.4
30°	1886.2	1879.4	1875.3	1876.6	1886.2
32.5°	1838.4	1827.5	1824.7	1826.1	1835.7
35°	1782.4	1774.2	1770.1	1770.1	1779.7
37.5°	1725.0	1716.8	1711.4	1711.4	1720.9
40°	1667.7	1655.4	1649.9	1647.2	1659.5
42.5°	1603.5	1593.9	1581.6	1581.6	1592.6
45°	1535.2	1524.3	1513.3	1513.3	1524.3
47.5°	1465.5	1454.6	1442.3	1442.3	1453.2
50°	1391.8	1380.9	1367.2	1367.2	1379.5
52.5°	1316.7	1304.4	1289.3	1288.0	1300.3
55°	1237.4	1223.8	1207.4	1210.1	1219.7
57.5°	1156.9	1139.1	1122.7	1122.7	1137.7
60°	1065.3	1050.3	1032.6	1035.3	1054.4
62.5°	977.9	958.8	941.1	947.9	964.3
65°	882.3	865.9	845.4	856.4	876.9
67.5°	788.1	770.3	753.9	767.6	777.2
70°	688.4	672.0	659.7	659.7	658.3
72.5°	588.7	573.6	570.9	545.0	528.6
75°	490.3	476.7	468.5	417.9	396.1
77.5°	387.9	383.8	357.8	304.6	297.8
80°	289.6	292.3	245.8	247.2	252.7
82.5°	199.4	195.3	184.4	176.2	173.5
85°	114.7	107.9	107.9	102.4	99.7
87.5°	38.2	42.3	42.3	42.3	43.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)