

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: P239006

Luminaire Tested: **24ENA-LD2-40-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239006
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-LD2-40-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3529.5 lumens
Efficiency: N/A
Efficacy: 104.1 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

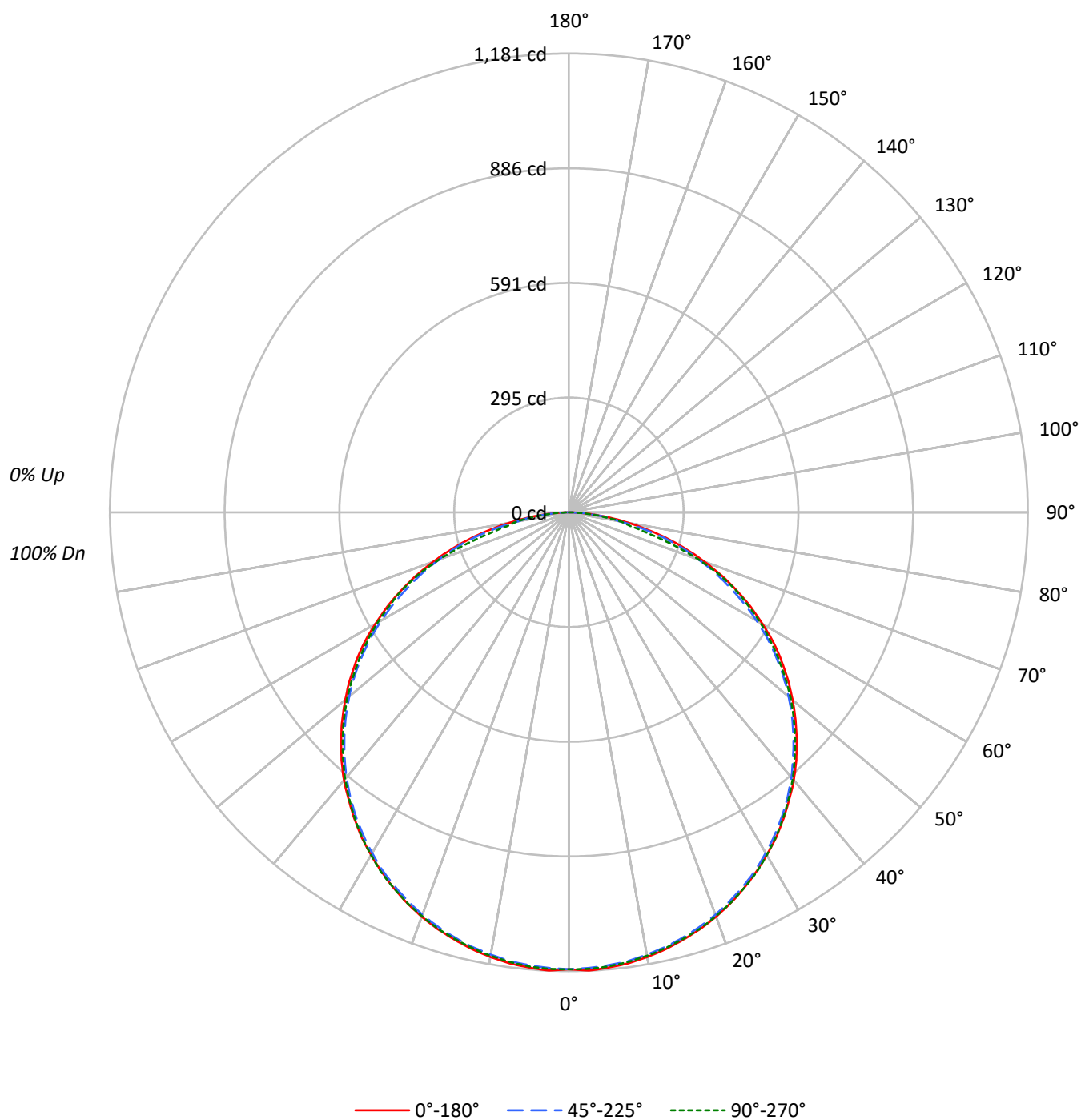
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1982	1982	1982
5°	1989	1979	1984
10°	1988	1978	1983
15°	1986	1977	1982
20°	1986	1977	1983
25°	1984	1974	1984
30°	1981	1970	1981
35°	1979	1966	1976
40°	1980	1959	1971
45°	1975	1947	1961
50°	1970	1935	1952
55°	1962	1915	1935
60°	1938	1879	1918
65°	1899	1820	1888
70°	1831	1755	1751
75°	1723	1646	1392
80°	1516	1287	1323
85°	1197	1127	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.2
10°-20°	320.4	9.1
20°-30°	490.3	13.9
30°-40°	599.3	17.0
40°-50°	633.3	17.9
50°-60°	586.8	16.6
60°-70°	459.7	13.0
70°-80°	259.9	7.4
80°-90°	68.4	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°	922.1	26.1
0°-40°	1521.4	43.1
0°-60°	2741.5	77.7
0°-90°	3529.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3529.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1176	1173	1170	1170	1173	112
15°	1139	1134	1134	1133	1136	322
25°	1067	1063	1062	1062	1067	492
35°	962	958	956	956	961	603
45°	829	823	817	817	823	640
55°	668	661	652	653	659	597
65°	476	468	456	462	474	471
75°	265	257	253	226	214	278
85°	62	58	58	55	54	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.3	1176.3	1176.3	1176.3	1176.3
2.5°	1180.7	1175.5	1174.0	1172.6	1176.3
5°	1176.3	1172.6	1170.4	1169.6	1173.3
7.5°	1171.1	1166.7	1165.2	1163.7	1167.4
10°	1162.2	1157.8	1156.3	1155.6	1159.3
12.5°	1151.9	1146.8	1146.0	1145.3	1149.0
15°	1138.6	1134.2	1133.5	1132.7	1136.4
17.5°	1124.6	1120.2	1118.7	1118.0	1123.2
20°	1107.7	1103.2	1102.5	1101.8	1106.2
22.5°	1088.5	1084.1	1082.6	1083.3	1087.8
25°	1067.1	1062.7	1061.9	1061.9	1067.1
27.5°	1043.5	1039.1	1039.1	1039.1	1045.0
30°	1018.4	1014.7	1012.5	1013.3	1018.4
32.5°	992.6	986.7	985.2	986.0	991.1
35°	962.4	958.0	955.7	955.7	960.9
37.5°	931.4	927.0	924.0	924.0	929.2
40°	900.4	893.8	890.9	889.4	896.0
42.5°	865.8	860.6	854.0	854.0	859.9
45°	828.9	823.0	817.1	817.1	823.0
47.5°	791.3	785.4	778.8	778.8	784.7
50°	751.5	745.6	738.2	738.2	744.8
52.5°	710.9	704.3	696.2	695.4	702.1
55°	668.1	660.8	651.9	653.4	658.6
57.5°	624.6	615.0	606.2	606.2	614.3
60°	575.2	567.1	557.5	559.0	569.3
62.5°	528.0	517.7	508.1	511.8	520.6
65°	476.4	467.6	456.5	462.4	473.5
67.5°	425.5	415.9	407.1	414.5	419.6
70°	371.7	362.8	356.2	356.2	355.5
72.5°	317.8	309.7	308.3	294.2	285.4
75°	264.7	257.4	252.9	225.7	213.9
77.5°	209.4	207.2	193.2	164.5	160.8
80°	156.3	157.8	132.7	133.5	136.4
82.5°	107.7	105.5	99.6	95.1	93.7
85°	61.9	58.3	58.3	55.3	53.8
87.5°	20.6	22.9	22.9	22.9	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)