

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: P238921

Luminaire Tested: **24ENA-LD2-34-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238921
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-LD2-34-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.5 lumens
Efficiency: N/A
Efficacy: 119.0 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

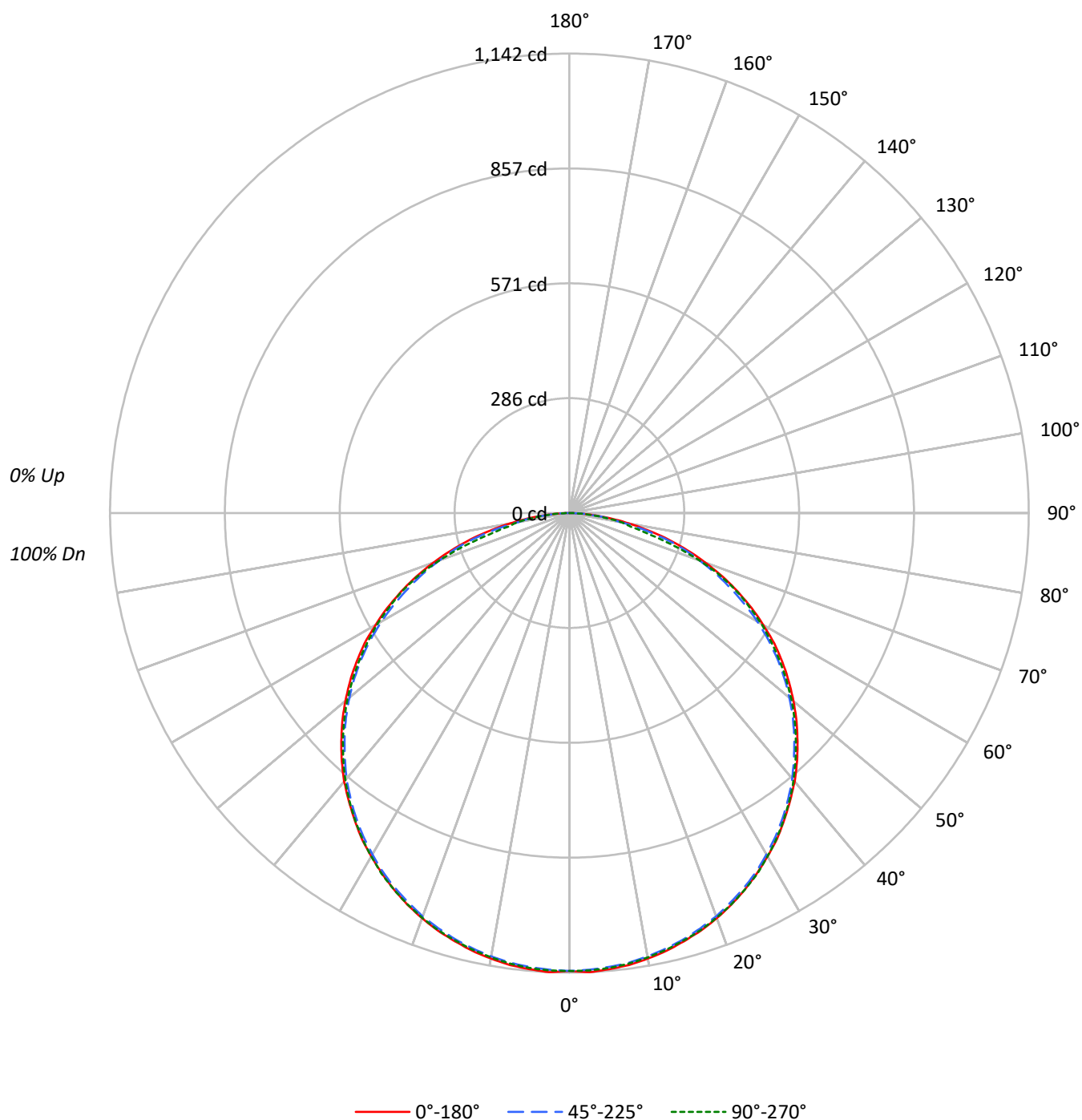
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1917	1917	1917
5°	1924	1915	1920
10°	1923	1914	1919
15°	1921	1913	1918
20°	1921	1912	1919
25°	1919	1910	1919
30°	1917	1906	1917
35°	1915	1902	1912
40°	1916	1895	1906
45°	1911	1883	1897
50°	1906	1872	1888
55°	1899	1853	1871
60°	1875	1817	1856
65°	1837	1760	1826
70°	1771	1697	1694
75°	1667	1593	1347
80°	1467	1246	1281
85°	1158	1090	1007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.2
10°-20°	310.0	9.1
20°-30°	474.3	13.9
30°-40°	579.8	17.0
40°-50°	612.7	17.9
50°-60°	567.6	16.6
60°-70°	444.7	13.0
70°-80°	251.4	7.4
80°-90°	66.2	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°	892.1	26.1
0°-40°	1471.8	43.1
0°-60°	2652.1	77.7
0°-90°	3414.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1138	1134	1132	1132	1135	108
15°	1102	1097	1096	1096	1099	311
25°	1032	1028	1027	1027	1032	476
35°	931	927	925	925	930	583
45°	802	796	790	790	796	619
55°	646	639	631	632	637	577
65°	461	452	442	447	458	456
75°	256	249	245	218	207	269
85°	60	56	56	54	52	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1142.2	1137.2	1135.8	1134.3	1137.9
5°	1137.9	1134.3	1132.2	1131.5	1135.0
7.5°	1132.9	1128.6	1127.2	1125.8	1129.3
10°	1124.3	1120.1	1118.6	1117.9	1121.5
12.5°	1114.4	1109.4	1108.6	1107.9	1111.5
15°	1101.5	1097.2	1096.5	1095.8	1099.4
17.5°	1088.0	1083.7	1082.2	1081.5	1086.5
20°	1071.5	1067.3	1066.6	1065.8	1070.1
22.5°	1053.0	1048.7	1047.3	1048.0	1052.3
25°	1032.3	1028.0	1027.3	1027.3	1032.3
27.5°	1009.5	1005.2	1005.2	1005.2	1010.9
30°	985.2	981.7	979.5	980.2	985.2
32.5°	960.3	954.5	953.1	953.8	958.8
35°	931.0	926.7	924.6	924.6	929.6
37.5°	901.0	896.8	893.9	893.9	898.9
40°	871.1	864.7	861.8	860.4	866.8
42.5°	837.5	832.6	826.1	826.1	831.8
45°	801.9	796.2	790.5	790.5	796.2
47.5°	765.5	759.8	753.4	753.4	759.1
50°	727.0	721.3	714.1	714.1	720.5
52.5°	687.7	681.3	673.5	672.7	679.2
55°	646.4	639.2	630.7	632.1	637.1
57.5°	604.3	595.0	586.4	586.4	594.3
60°	556.5	548.6	539.3	540.8	550.8
62.5°	510.8	500.8	491.5	495.1	503.7
65°	460.9	452.3	441.6	447.3	458.0
67.5°	411.6	402.4	393.8	400.9	405.9
70°	359.6	351.0	344.6	344.6	343.9
72.5°	307.5	299.6	298.2	284.7	276.1
75°	256.1	249.0	244.7	218.3	206.9
77.5°	202.6	200.5	186.9	159.1	155.5
80°	151.2	152.7	128.4	129.1	132.0
82.5°	104.2	102.0	96.3	92.0	90.6
85°	59.9	56.4	56.4	53.5	52.1
87.5°	20.0	22.1	22.1	22.1	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)