

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: P238964

Luminaire Tested: **24EN-LD2-34-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238964
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: 24EN-LD2-34-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.6 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

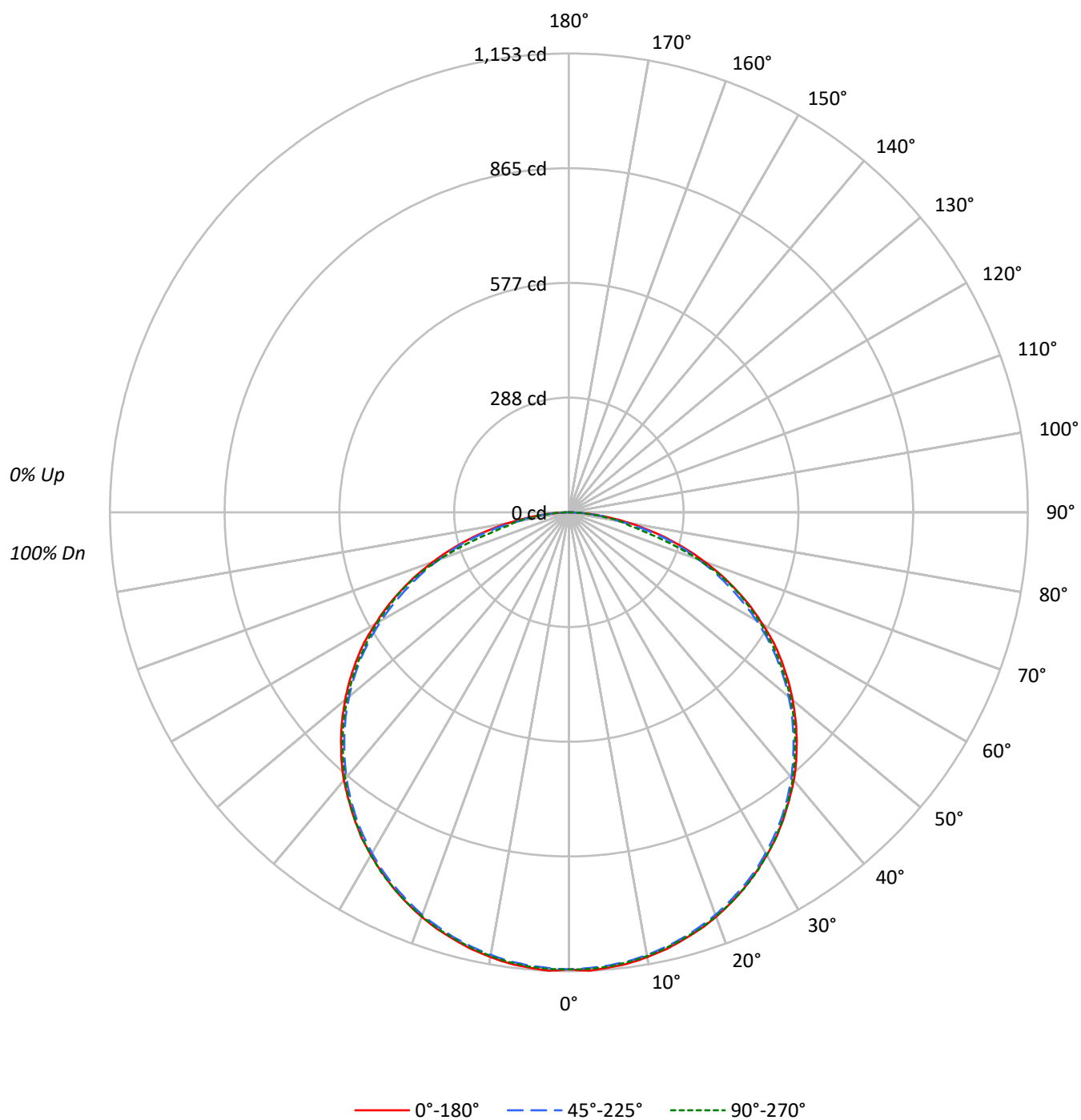
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1759	1759	1759
5°	1766	1757	1761
10°	1765	1756	1761
15°	1763	1755	1760
20°	1763	1755	1761
25°	1761	1752	1761
30°	1759	1749	1759
35°	1757	1745	1754
40°	1758	1739	1749
45°	1753	1728	1741
50°	1748	1718	1733
55°	1742	1700	1717
60°	1721	1668	1703
65°	1686	1616	1675
70°	1626	1558	1554
75°	1530	1462	1236
80°	1347	1143	1175
85°	1063	1000	924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.2
10°-20°	312.9	9.1
20°-30°	478.8	13.9
30°-40°	585.2	17.0
40°-50°	618.4	17.9
50°-60°	573.0	16.6
60°-70°	448.9	13.0
70°-80°	253.8	7.4
80°-90°	66.8	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°	900.5	26.1
0°-40°	1485.7	43.1
0°-60°	2677.1	77.7
0°-90°	3446.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1145	1143	1142	1146	109
15°	1112	1108	1107	1106	1110	314
25°	1042	1038	1037	1037	1042	480
35°	940	936	933	933	938	588
45°	809	804	798	798	804	625
55°	652	645	637	638	643	583
65°	465	457	446	452	462	460
75°	258	251	247	220	209	272
85°	60	57	57	54	53	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.6	1148.6	1148.6	1148.6	1148.6
2.5°	1152.9	1147.9	1146.5	1145.0	1148.6
5°	1148.6	1145.0	1142.9	1142.1	1145.7
7.5°	1143.6	1139.3	1137.8	1136.4	1140.0
10°	1134.9	1130.6	1129.2	1128.5	1132.1
12.5°	1124.9	1119.8	1119.1	1118.4	1122.0
15°	1111.9	1107.6	1106.9	1106.1	1109.7
17.5°	1098.2	1093.9	1092.5	1091.7	1096.8
20°	1081.7	1077.3	1076.6	1075.9	1080.2
22.5°	1062.9	1058.6	1057.2	1057.9	1062.2
25°	1042.0	1037.7	1037.0	1037.0	1042.0
27.5°	1019.0	1014.7	1014.7	1014.7	1020.4
30°	994.5	990.9	988.8	989.5	994.5
32.5°	969.3	963.5	962.1	962.8	967.9
35°	939.8	935.5	933.3	933.3	938.3
37.5°	909.5	905.2	902.3	902.3	907.4
40°	879.3	872.8	869.9	868.5	875.0
42.5°	845.4	840.4	833.9	833.9	839.7
45°	809.4	803.7	797.9	797.9	803.7
47.5°	772.7	767.0	760.5	760.5	766.2
50°	733.8	728.1	720.9	720.9	727.3
52.5°	694.2	687.7	679.8	679.1	685.6
55°	652.4	645.2	636.6	638.0	643.1
57.5°	610.0	600.6	592.0	592.0	599.9
60°	561.7	553.8	544.4	545.9	555.9
62.5°	515.6	505.5	496.2	499.8	508.4
65°	465.2	456.6	445.8	451.5	462.3
67.5°	415.5	406.2	397.5	404.7	409.8
70°	363.0	354.3	347.8	347.8	347.1
72.5°	310.4	302.5	301.0	287.3	278.7
75°	258.5	251.3	247.0	220.4	208.8
77.5°	204.5	202.4	188.7	160.6	157.0
80°	152.7	154.1	129.6	130.3	133.2
82.5°	105.1	103.0	97.2	92.9	91.5
85°	60.5	56.9	56.9	54.0	52.6
87.5°	20.2	22.3	22.3	22.3	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)