

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: P238965

Luminaire Tested: **24EN-LD2-40-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238965
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-LD2-40-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3524.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

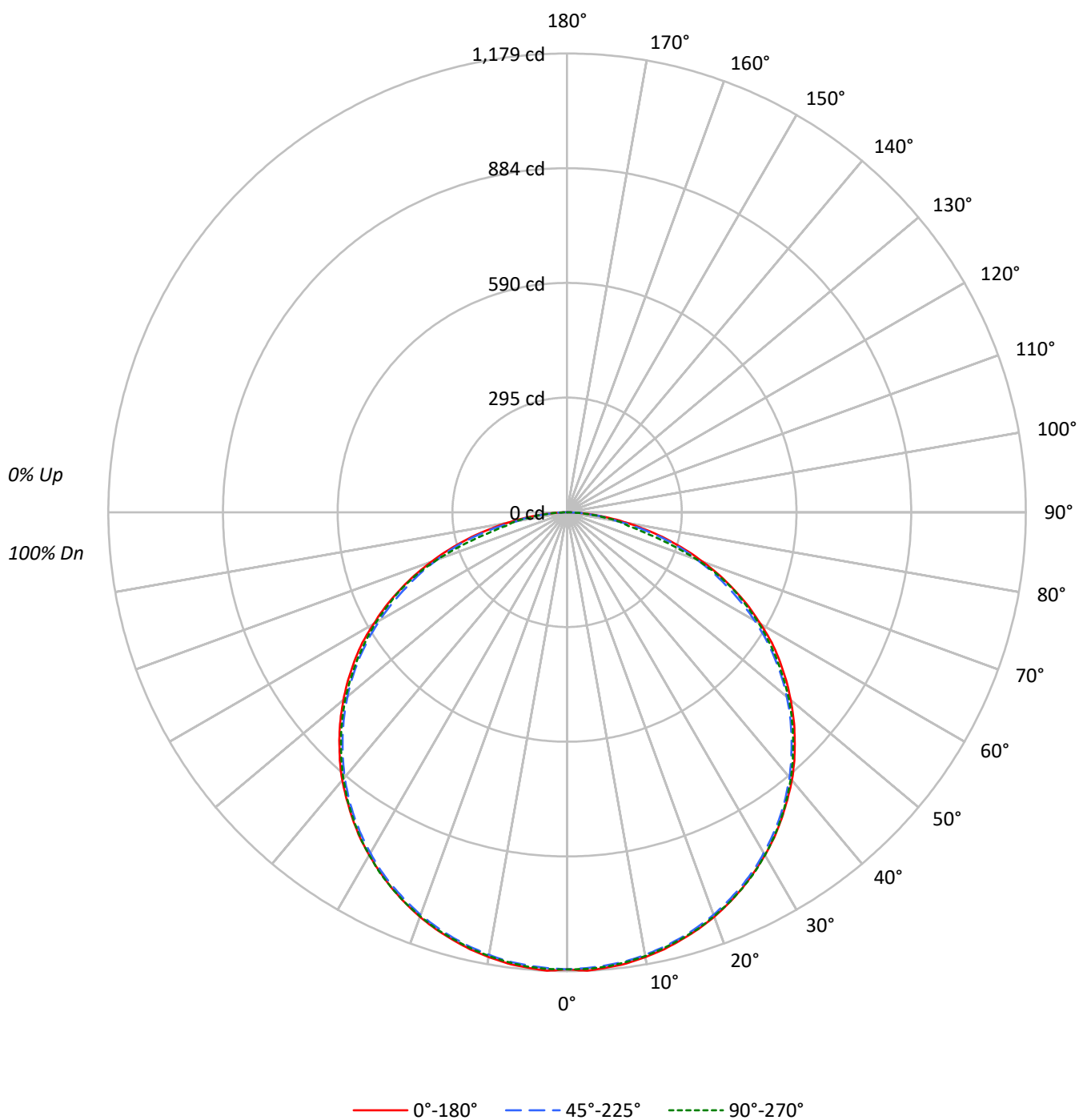
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1799	1799	1799
5°	1806	1797	1801
10°	1805	1796	1800
15°	1803	1794	1799
20°	1803	1794	1800
25°	1801	1792	1801
30°	1798	1788	1798
35°	1797	1784	1794
40°	1797	1778	1789
45°	1793	1767	1780
50°	1788	1756	1772
55°	1781	1738	1756
60°	1759	1705	1741
65°	1724	1652	1713
70°	1662	1592	1589
75°	1564	1495	1263
80°	1377	1169	1201
85°	1088	1023	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.2
10°-20°	319.9	9.1
20°-30°	489.6	13.9
30°-40°	598.4	17.0
40°-50°	632.3	17.9
50°-60°	585.9	16.6
60°-70°	459.0	13.0
70°-80°	259.5	7.4
80°-90°	68.3	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°	920.7	26.1
0°-40°	1519.1	43.1
0°-60°	2737.3	77.7
0°-90°	3524.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1174	1171	1168	1168	1172	112
15°	1137	1132	1132	1131	1135	321
25°	1066	1061	1060	1060	1066	491
35°	961	956	954	954	959	602
45°	828	822	816	816	822	639
55°	667	660	651	652	658	596
65°	476	467	456	462	473	470
75°	264	257	253	225	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°	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1178.9	1173.7	1172.2	1170.8	1174.4
5°	1174.4	1170.8	1168.5	1167.8	1171.5
7.5°	1169.3	1164.9	1163.4	1161.9	1165.6
10°	1160.4	1156.0	1154.6	1153.8	1157.5
12.5°	1150.1	1145.0	1144.2	1143.5	1147.2
15°	1136.9	1132.5	1131.7	1131.0	1134.7
17.5°	1122.9	1118.5	1117.0	1116.3	1121.4
20°	1106.0	1101.5	1100.8	1100.1	1104.5
22.5°	1086.8	1082.4	1080.9	1081.7	1086.1
25°	1065.5	1061.0	1060.3	1060.3	1065.5
27.5°	1041.9	1037.5	1037.5	1037.5	1043.4
30°	1016.9	1013.2	1011.0	1011.7	1016.9
32.5°	991.1	985.2	983.7	984.5	989.6
35°	960.9	956.5	954.3	954.3	959.4
37.5°	930.0	925.6	922.6	922.6	927.8
40°	899.0	892.4	889.5	888.0	894.6
42.5°	864.4	859.3	852.7	852.7	858.6
45°	827.6	821.7	815.8	815.8	821.7
47.5°	790.1	784.2	777.6	777.6	783.4
50°	750.3	744.4	737.1	737.1	743.7
52.5°	709.8	703.2	695.1	694.4	701.0
55°	667.1	659.7	650.9	652.4	657.5
57.5°	623.7	614.1	605.3	605.3	613.4
60°	574.3	566.2	556.7	558.1	568.4
62.5°	527.2	516.9	507.3	511.0	519.8
65°	475.7	466.8	455.8	461.7	472.7
67.5°	424.9	415.3	406.4	413.8	419.0
70°	371.1	362.3	355.6	355.6	354.9
72.5°	317.4	309.3	307.8	293.8	285.0
75°	264.3	257.0	252.6	225.3	213.5
77.5°	209.1	206.9	192.9	164.2	160.5
80°	156.1	157.6	132.5	133.3	136.2
82.5°	107.5	105.3	99.4	95.0	93.5
85°	61.9	58.2	58.2	55.2	53.8
87.5°	20.6	22.8	22.8	22.8	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)