

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: P238884

Luminaire Tested: **24EN-LD2-34-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238884
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-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4007.7 lumens
Efficiency: N/A
Efficacy: 139.6 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

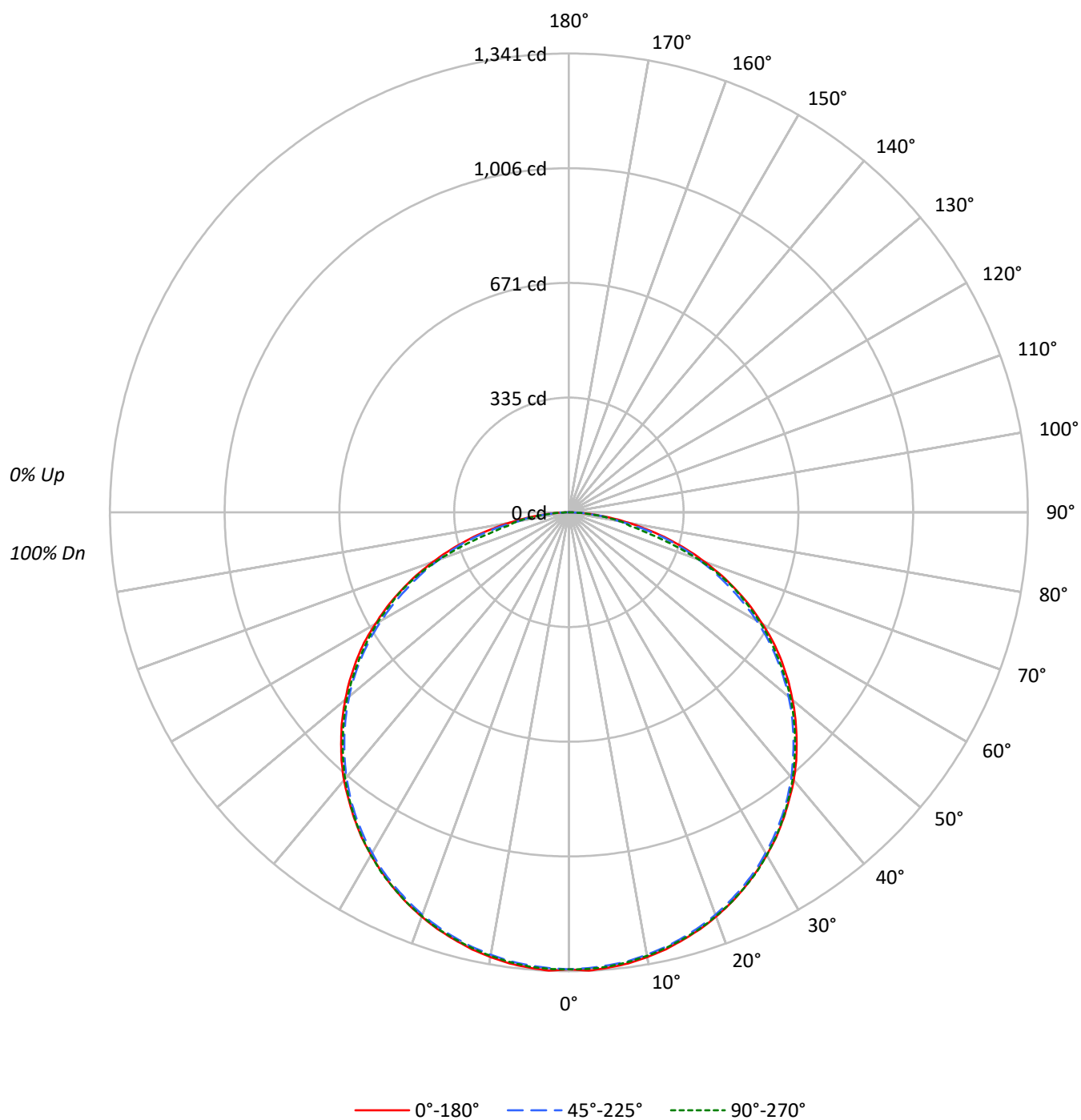
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2046	2046	2046
5°	2053	2043	2048
10°	2052	2042	2047
15°	2050	2041	2046
20°	2050	2040	2047
25°	2048	2038	2048
30°	2045	2033	2045
35°	2043	2029	2040
40°	2044	2022	2034
45°	2039	2010	2024
50°	2033	1997	2015
55°	2026	1977	1997
60°	2001	1939	1980
65°	1960	1878	1948
70°	1890	1811	1807
75°	1779	1700	1437
80°	1566	1329	1366
85°	1235	1163	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	3.2
10°-20°	363.8	9.1
20°-30°	556.7	13.9
30°-40°	680.5	17.0
40°-50°	719.1	17.9
50°-60°	666.3	16.6
60°-70°	522.0	13.0
70°-80°	295.1	7.4
80°-90°	77.7	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°	1047.1	26.1
0°-40°	1727.6	43.1
0°-60°	3112.9	77.7
0°-90°	4007.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1336	1331	1329	1328	1332	127
15°	1293	1288	1287	1286	1290	365
25°	1212	1207	1206	1206	1212	559
35°	1093	1088	1085	1085	1091	684
45°	941	934	928	928	934	726
55°	759	750	740	742	748	678
65°	541	531	518	525	538	535
75°	301	292	287	256	243	316
85°	70	66	66	63	61	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.6	1335.6	1335.6	1335.6	1335.6
2.5°	1340.6	1334.8	1333.1	1331.4	1335.6
5°	1335.6	1331.4	1328.9	1328.1	1332.3
7.5°	1329.8	1324.7	1323.1	1321.4	1325.6
10°	1319.7	1314.7	1313.0	1312.2	1316.4
12.5°	1308.0	1302.1	1301.3	1300.4	1304.6
15°	1292.9	1287.9	1287.0	1286.2	1290.4
17.5°	1277.0	1272.0	1270.3	1269.5	1275.3
20°	1257.7	1252.7	1251.9	1251.0	1256.1
22.5°	1236.0	1230.9	1229.3	1230.1	1235.1
25°	1211.7	1206.7	1205.8	1205.8	1211.7
27.5°	1184.9	1179.9	1179.9	1179.9	1186.6
30°	1156.4	1152.2	1149.7	1150.6	1156.4
32.5°	1127.1	1120.4	1118.7	1119.6	1125.4
35°	1092.8	1087.7	1085.2	1085.2	1091.1
37.5°	1057.6	1052.6	1049.2	1049.2	1055.1
40°	1022.4	1014.9	1011.5	1009.9	1017.4
42.5°	983.1	977.2	969.7	969.7	976.4
45°	941.2	934.5	927.8	927.8	934.5
47.5°	898.5	891.8	884.3	884.3	891.0
50°	853.3	846.6	838.2	838.2	845.7
52.5°	807.2	799.7	790.5	789.6	797.2
55°	758.7	750.3	740.2	741.9	747.8
57.5°	709.3	698.4	688.3	688.3	697.5
60°	653.2	643.9	633.1	634.7	646.5
62.5°	599.6	587.8	577.0	581.1	591.2
65°	540.9	530.9	518.3	525.0	537.6
67.5°	483.2	472.3	462.2	470.6	476.5
70°	422.0	412.0	404.5	404.5	403.6
72.5°	360.9	351.7	350.0	334.1	324.1
75°	300.6	292.2	287.2	256.2	242.8
77.5°	237.8	235.3	219.4	186.7	182.5
80°	177.5	179.2	150.7	151.6	154.9
82.5°	122.3	119.7	113.0	108.0	106.3
85°	70.3	66.2	66.2	62.8	61.1
87.5°	23.4	26.0	26.0	26.0	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)