

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: P238714

Luminaire Tested: **14EN-LD2-51-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14EN-LD2-51-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4405.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

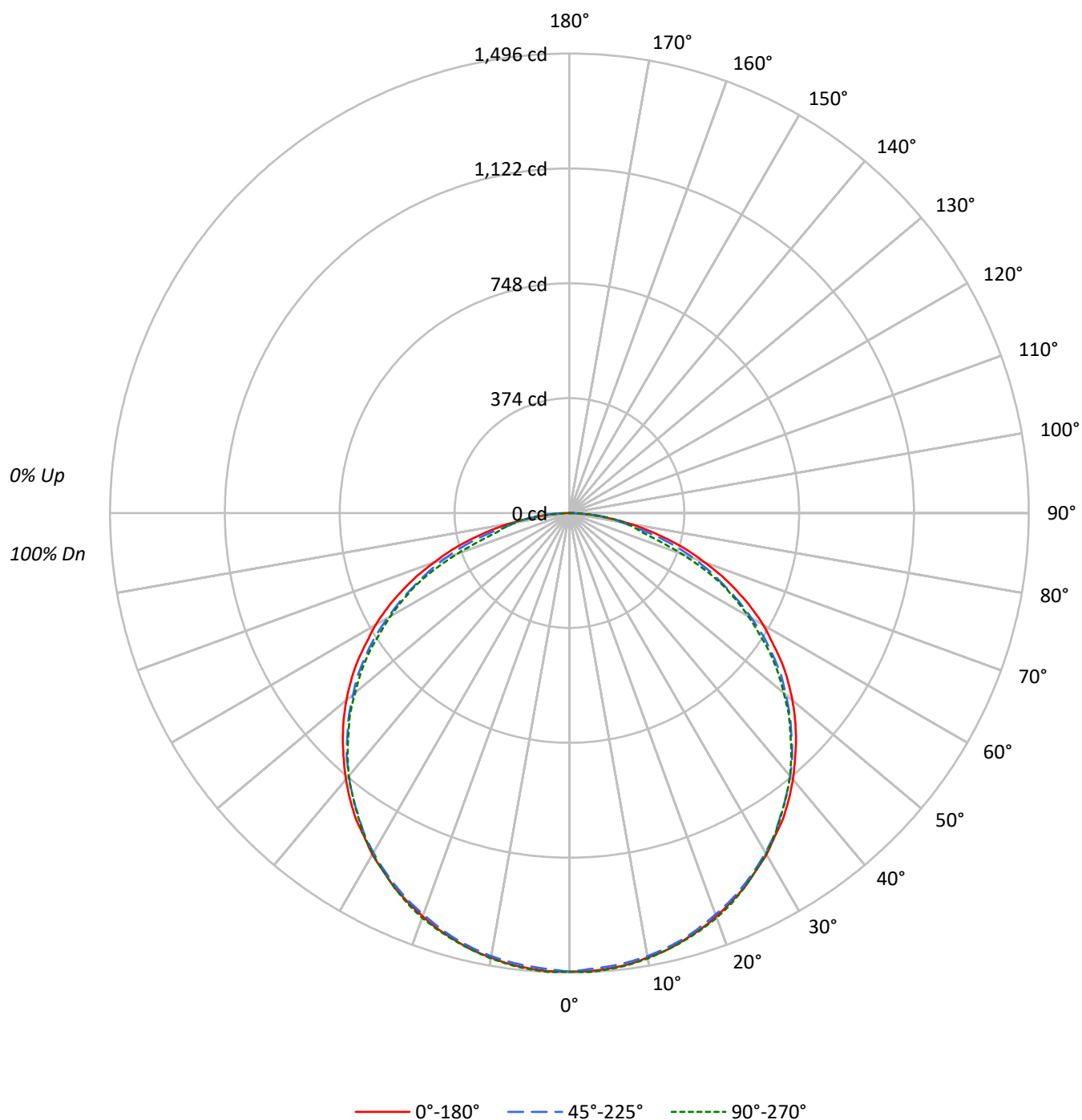
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4193	4193	4193
5°	4196	4176	4202
10°	4191	4178	4198
15°	4185	4171	4192
20°	4176	4155	4190
25°	4171	4150	4171
30°	4162	4139	4154
35°	4160	4112	4120
40°	4150	4098	4098
45°	4144	4061	4042
50°	4142	4019	3979
55°	4128	3968	3912
60°	4095	3846	3781
65°	4008	3684	3637
70°	3844	3538	3194
75°	3614	3184	2679
80°	3202	2749	3013
85°	2478	2851	2703



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.2
10°-20°	406.1	9.2
20°-30°	619.0	14.0
30°-40°	753.7	17.1
40°-50°	792.5	18.0
50°-60°	727.5	16.5
60°-70°	558.9	12.7
70°-80°	312.0	7.1
80°-90°	94.7	2.1
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°	1166.4	26.5
0°-40°	1920.2	43.6
0°-60°	3440.2	78.1
0°-90°	4405.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4405.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1488	1488	1482	1488	1491	142
15°	1440	1440	1435	1440	1442	407
25°	1346	1342	1339	1344	1346	620
35°	1214	1209	1200	1202	1202	759
45°	1044	1037	1023	1018	1018	805
55°	843	836	811	797	799	752
65°	603	587	554	547	547	596
75°	333	317	294	254	247	352
85°	77	79	88	86	84	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.1	1493.1	1493.1	1493.1	1493.1
2.5°	1493.1	1493.1	1486.1	1493.1	1495.5
5°	1488.5	1488.5	1481.5	1488.5	1490.8
7.5°	1481.5	1481.5	1474.5	1479.1	1483.8
10°	1469.8	1469.8	1465.2	1469.8	1472.2
12.5°	1458.2	1455.9	1451.2	1455.9	1458.2
15°	1439.5	1439.5	1434.9	1439.5	1441.9
17.5°	1420.9	1418.6	1413.9	1420.9	1423.2
20°	1397.6	1395.3	1390.6	1397.6	1402.3
22.5°	1372.0	1369.7	1367.3	1374.3	1376.7
25°	1346.4	1341.7	1339.4	1344.0	1346.4
27.5°	1313.8	1311.4	1309.1	1311.4	1313.8
30°	1283.5	1278.8	1276.5	1276.5	1281.1
32.5°	1246.2	1243.9	1241.6	1243.9	1243.9
35°	1213.6	1208.9	1199.6	1202.0	1202.0
37.5°	1174.0	1167.0	1160.0	1160.0	1160.0
40°	1132.1	1127.4	1118.1	1115.8	1118.1
42.5°	1087.8	1083.2	1073.8	1066.8	1069.2
45°	1043.6	1036.6	1022.6	1017.9	1017.9
47.5°	997.0	990.0	973.7	966.7	969.0
50°	948.1	938.7	920.1	910.8	910.8
52.5°	896.8	887.5	868.9	857.2	857.2
55°	843.2	836.2	810.6	796.6	799.0
57.5°	782.7	775.7	750.1	733.7	733.7
60°	729.1	715.1	684.8	673.2	673.2
62.5°	668.5	652.2	621.9	608.0	610.3
65°	603.3	587.0	554.4	547.4	547.4
67.5°	538.1	524.1	493.8	482.2	470.5
70°	468.2	454.2	430.9	403.0	389.0
72.5°	403.0	386.7	365.7	323.8	309.8
75°	333.1	316.8	293.5	253.9	246.9
77.5°	265.5	251.6	219.0	209.6	214.3
80°	198.0	193.3	170.0	179.4	186.3
82.5°	132.8	130.4	135.1	139.8	139.8
85°	76.9	79.2	88.5	86.2	83.9
87.5°	32.6	39.6	37.3	37.3	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)