

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: P238712

Luminaire Tested: **14EN-LD2-47-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238712
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-LD2-47-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4513.4 lumens
Efficiency: N/A
Efficacy: 108.8 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

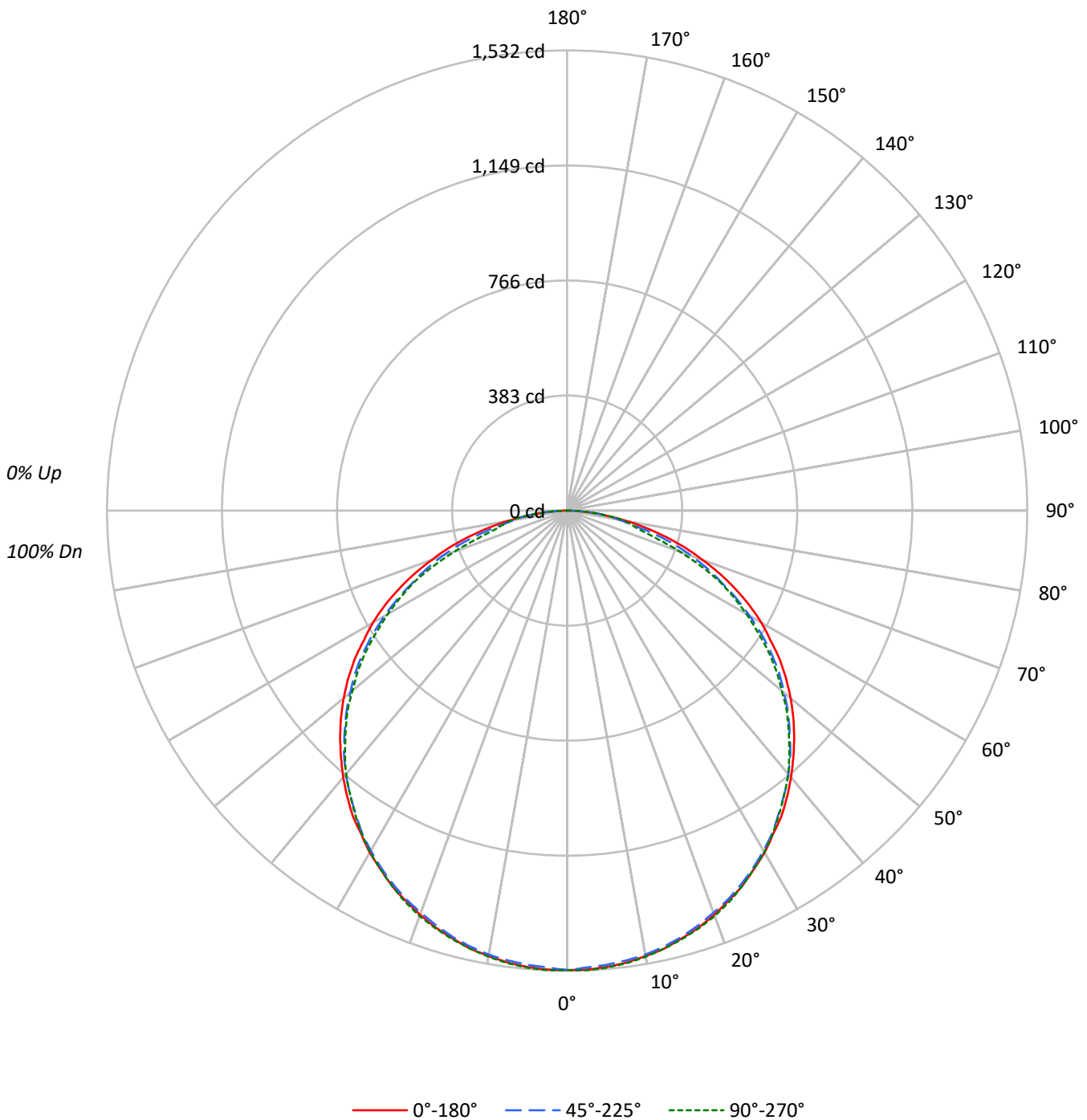
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4295	4295	4295
5°	4298	4278	4305
10°	4293	4280	4300
15°	4287	4273	4294
20°	4278	4257	4293
25°	4273	4251	4273
30°	4263	4240	4255
35°	4262	4213	4221
40°	4251	4199	4199
45°	4245	4160	4141
50°	4243	4118	4076
55°	4229	4065	4007
60°	4195	3940	3873
65°	4106	3773	3726
70°	3938	3625	3272
75°	3702	3262	2744
80°	3279	2817	3087
85°	2536	2922	2768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	3.2
10°-20°	416.0	9.2
20°-30°	634.1	14.0
30°-40°	772.2	17.1
40°-50°	811.9	18.0
50°-60°	745.3	16.5
60°-70°	572.6	12.7
70°-80°	319.6	7.1
80°-90°	97.0	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°	1194.9	26.5
0°-40°	1967.1	43.6
0°-60°	3524.2	78.1
0°-90°	4513.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4513.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1525	1525	1518	1525	1527	145
15°	1475	1475	1470	1475	1477	417
25°	1379	1374	1372	1377	1379	635
35°	1243	1238	1229	1231	1231	777
45°	1069	1062	1048	1043	1043	825
55°	864	857	830	816	818	770
65°	618	601	568	561	561	611
75°	341	324	301	260	253	361
85°	79	81	91	88	86	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1529.6	1529.6	1522.4	1529.6	1532.0
5°	1524.8	1524.8	1517.7	1524.8	1527.2
7.5°	1517.7	1517.7	1510.5	1515.3	1520.0
10°	1505.7	1505.7	1501.0	1505.7	1508.1
12.5°	1493.8	1491.4	1486.6	1491.4	1493.8
15°	1474.7	1474.7	1469.9	1474.7	1477.1
17.5°	1455.6	1453.2	1448.5	1455.6	1458.0
20°	1431.8	1429.4	1424.6	1431.8	1436.5
22.5°	1405.5	1403.1	1400.7	1407.9	1410.3
25°	1379.3	1374.5	1372.1	1376.9	1379.3
27.5°	1345.9	1343.5	1341.1	1343.5	1345.9
30°	1314.8	1310.1	1307.7	1307.7	1312.4
32.5°	1276.6	1274.3	1271.9	1274.3	1274.3
35°	1243.2	1238.5	1228.9	1231.3	1231.3
37.5°	1202.7	1195.5	1188.4	1188.4	1188.4
40°	1159.7	1154.9	1145.4	1143.0	1145.4
42.5°	1114.4	1109.6	1100.1	1092.9	1095.3
45°	1069.0	1061.9	1047.6	1042.8	1042.8
47.5°	1021.3	1014.2	997.5	990.3	992.7
50°	971.2	961.7	942.6	933.0	933.0
52.5°	918.7	909.2	890.1	878.1	878.1
55°	863.8	856.7	830.4	816.1	818.5
57.5°	801.8	794.6	768.4	751.7	751.7
60°	746.9	732.6	701.6	689.6	689.6
62.5°	684.9	668.2	637.1	622.8	625.2
65°	618.0	601.3	567.9	560.8	560.8
67.5°	551.2	536.9	505.9	494.0	482.0
70°	479.6	465.3	441.5	412.8	398.5
72.5°	412.8	396.1	374.6	331.7	317.4
75°	341.2	324.5	300.7	260.1	252.9
77.5°	272.0	257.7	224.3	214.8	219.5
80°	202.8	198.1	174.2	183.7	190.9
82.5°	136.0	133.6	138.4	143.2	143.2
85°	78.7	81.1	90.7	88.3	85.9
87.5°	33.4	40.6	38.2	38.2	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)