

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: P238748

Luminaire Tested: **14ENA-LD2-51-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238748
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: 14ENA-LD2-51-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

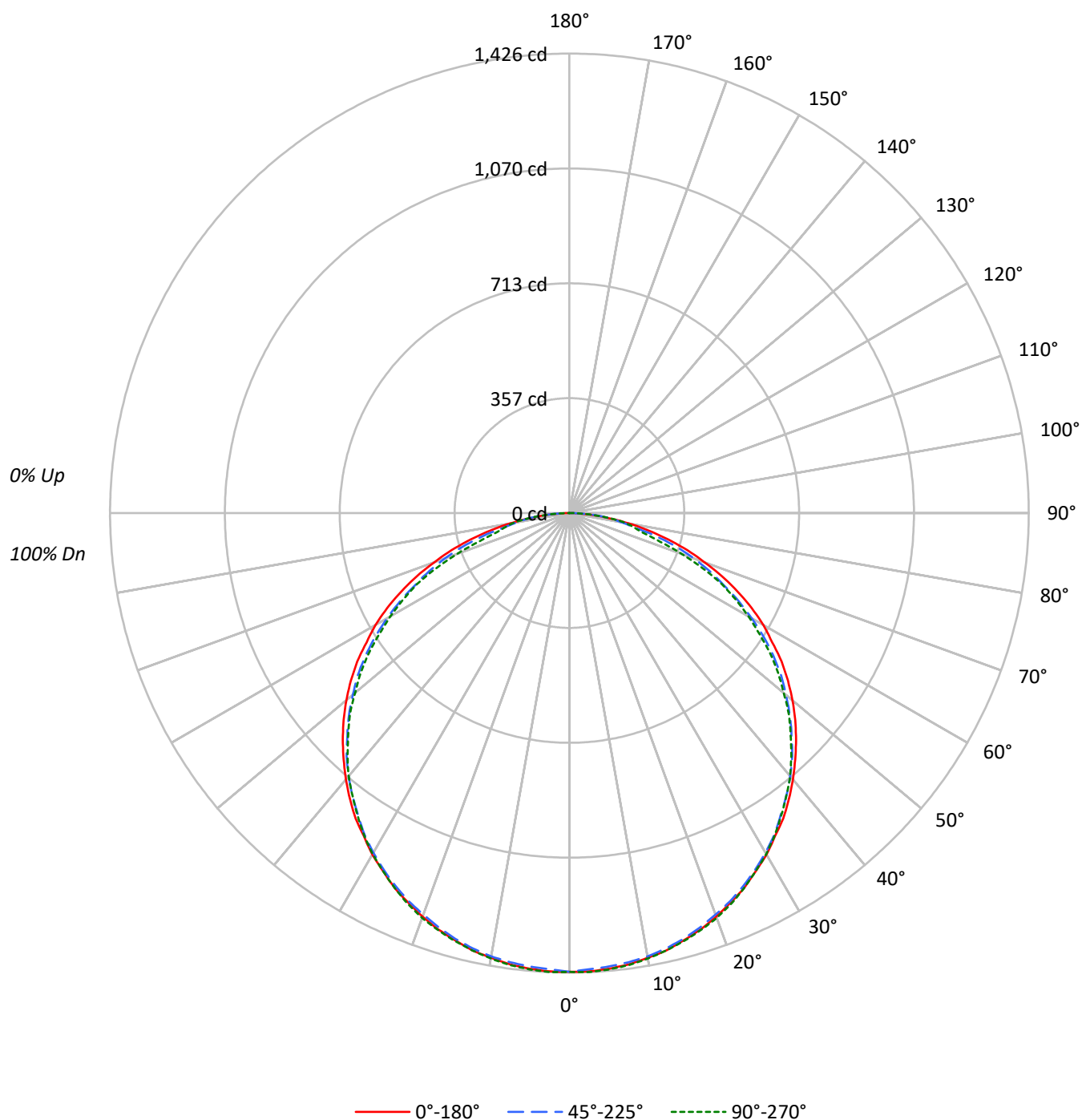
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5997	5997	5997
5°	6000	5973	6010
10°	5994	5975	6004
15°	5985	5966	5995
20°	5973	5944	5993
25°	5966	5935	5966
30°	5952	5919	5941
35°	5950	5881	5893
40°	5935	5862	5862
45°	5927	5808	5782
50°	5924	5749	5690
55°	5904	5676	5594
60°	5856	5501	5407
65°	5733	5268	5201
70°	5497	5060	4568
75°	5169	4553	3831
80°	4579	3932	4310
85°	3542	4079	3866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.2
10°-20°	387.2	9.2
20°-30°	590.2	14.0
30°-40°	718.7	17.1
40°-50°	755.7	18.0
50°-60°	693.6	16.5
60°-70°	532.9	12.7
70°-80°	297.4	7.1
80°-90°	90.3	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°	1112.2	26.5
0°-40°	1830.9	43.6
0°-60°	3280.2	78.1
0°-90°	4200.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1419	1419	1413	1419	1422	135
15°	1373	1373	1368	1373	1375	388
25°	1284	1279	1277	1282	1284	591
35°	1157	1153	1144	1146	1146	723
45°	995	988	975	971	971	768
55°	804	797	773	760	762	717
65°	575	560	529	522	522	568
75°	318	302	280	242	235	336
85°	73	76	84	82	80	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	1423.7	1423.7	1417.0	1423.7	1425.9
5°	1419.2	1419.2	1412.6	1419.2	1421.5
7.5°	1412.6	1412.6	1405.9	1410.4	1414.8
10°	1401.5	1401.5	1397.0	1401.5	1403.7
12.5°	1390.4	1388.1	1383.7	1388.1	1390.4
15°	1372.6	1372.6	1368.2	1372.6	1374.8
17.5°	1354.8	1352.6	1348.2	1354.8	1357.0
20°	1332.6	1330.4	1326.0	1332.6	1337.1
22.5°	1308.2	1306.0	1303.7	1310.4	1312.6
25°	1283.8	1279.3	1277.1	1281.5	1283.8
27.5°	1252.7	1250.4	1248.2	1250.4	1252.7
30°	1223.8	1219.3	1217.1	1217.1	1221.6
32.5°	1188.2	1186.0	1183.8	1186.0	1186.0
35°	1157.2	1152.7	1143.8	1146.1	1146.1
37.5°	1119.4	1112.7	1106.1	1106.1	1106.1
40°	1079.4	1075.0	1066.1	1063.9	1066.1
42.5°	1037.2	1032.8	1023.9	1017.2	1019.5
45°	995.0	988.4	975.0	970.6	970.6
47.5°	950.6	943.9	928.4	921.7	923.9
50°	904.0	895.1	877.3	868.4	868.4
52.5°	855.1	846.2	828.4	817.3	817.3
55°	804.0	797.3	772.9	759.6	761.8
57.5°	746.3	739.6	715.2	699.6	699.6
60°	695.2	681.9	653.0	641.9	641.9
62.5°	637.4	621.9	593.0	579.7	581.9
65°	575.2	559.7	528.6	521.9	521.9
67.5°	513.1	499.7	470.9	459.8	448.6
70°	446.4	433.1	410.9	384.2	370.9
72.5°	384.2	368.7	348.7	308.7	295.4
75°	317.6	302.1	279.8	242.1	235.4
77.5°	253.2	239.9	208.8	199.9	204.3
80°	188.8	184.3	162.1	171.0	177.7
82.5°	126.6	124.4	128.8	133.3	133.3
85°	73.3	75.5	84.4	82.2	80.0
87.5°	31.1	37.8	35.5	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)