

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: P238798

Luminaire Tested: **22EN-LD2-39-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-39-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3978.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

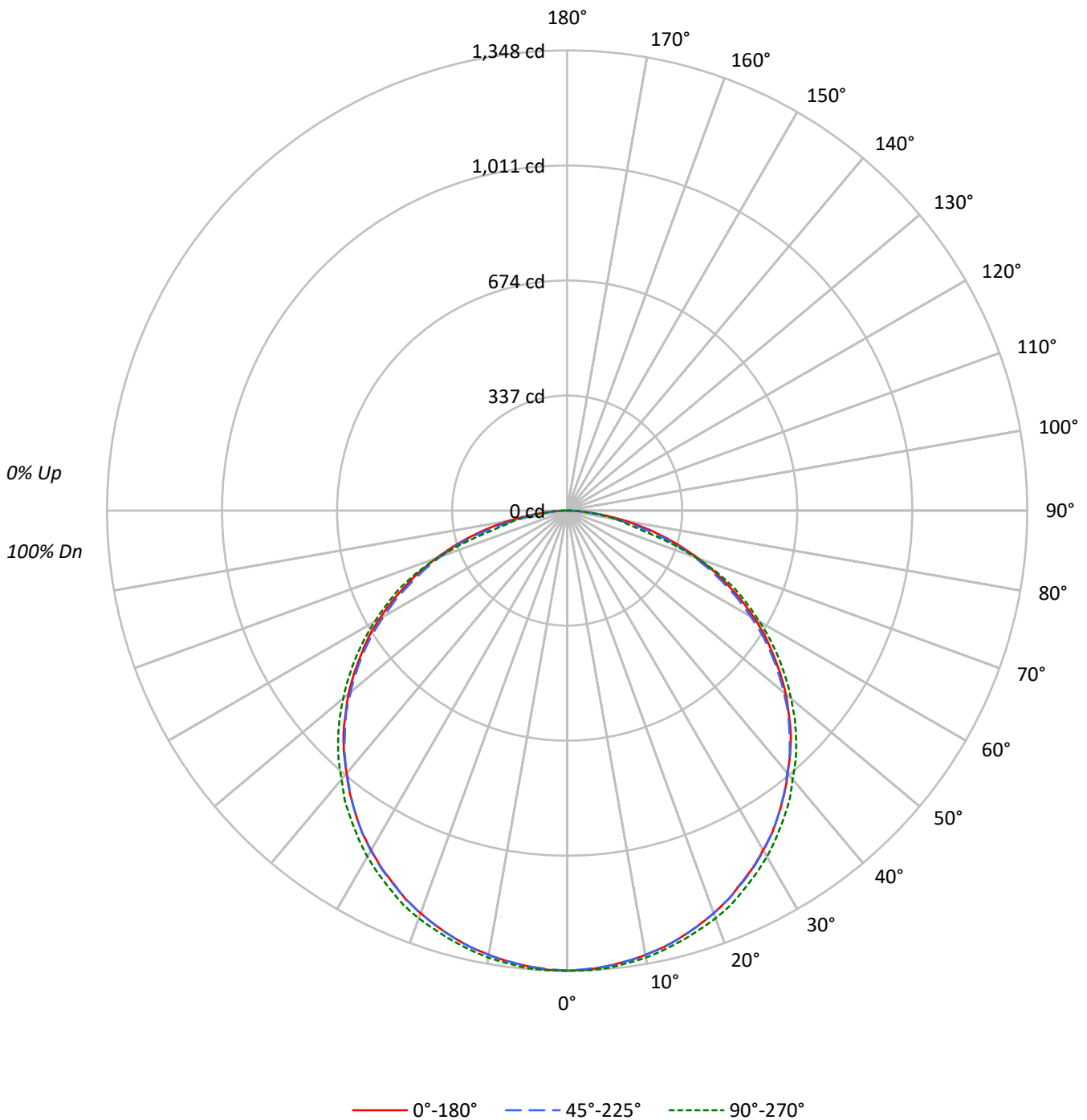
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	97	94	91	93	91	88	90	88	86	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	39	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°	4317	4317	4317
5°	4307	4307	4327
10°	4298	4298	4324
15°	4289	4289	4322
20°	4278	4278	4333
25°	4257	4265	4329
30°	4247	4254	4329
35°	4230	4230	4316
40°	4203	4195	4296
45°	4197	4170	4298
50°	4166	4126	4266
55°	4117	4073	4230
60°	4065	3975	4168
65°	3954	3847	4107
70°	3811	3698	3754
75°	3590	3366	2867
80°	3159	2639	2750
85°	2297	2219	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.2
10°-20°	365.9	9.2
20°-30°	558.6	14.0
30°-40°	680.3	17.1
40°-50°	716.1	18.0
50°-60°	659.3	16.6
60°-70°	513.2	12.9
70°-80°	284.8	7.2
80°-90°	73.2	1.8
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°	1051.9	26.4
0°-40°	1732.3	43.5
0°-60°	3107.7	78.1
0°-90°	3978.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1340	1340	1340	1344	1346	127
15°	1294	1294	1294	1300	1304	365
25°	1205	1207	1207	1217	1225	556
35°	1082	1082	1082	1094	1104	677
45°	927	921	921	935	949	714
55°	737	735	729	741	758	660
65°	522	516	508	524	542	517
75°	290	284	272	242	232	306
85°	62	58	60	58	58	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1347.9	1347.9	1347.9	1347.9	1347.9
2.5°	1345.9	1343.9	1343.9	1347.9	1347.9
5°	1339.8	1339.8	1339.8	1343.9	1345.9
7.5°	1331.8	1331.8	1331.8	1337.8	1337.8
10°	1321.7	1319.7	1321.7	1325.7	1329.8
12.5°	1309.6	1307.6	1309.6	1313.6	1317.7
15°	1293.5	1293.5	1293.5	1299.5	1303.6
17.5°	1275.4	1273.3	1275.4	1281.4	1287.5
20°	1255.2	1255.2	1255.2	1263.3	1271.3
22.5°	1233.1	1231.0	1233.1	1243.1	1251.2
25°	1204.8	1206.9	1206.9	1216.9	1225.0
27.5°	1178.7	1176.6	1180.7	1188.7	1198.8
30°	1148.4	1148.4	1150.4	1160.5	1170.6
32.5°	1118.2	1116.2	1118.2	1128.3	1138.4
35°	1081.9	1081.9	1081.9	1094.0	1104.1
37.5°	1045.7	1043.7	1043.7	1055.8	1069.9
40°	1005.4	1003.4	1003.4	1017.5	1027.5
42.5°	967.1	965.1	965.1	977.2	991.3
45°	926.8	920.8	920.8	934.9	949.0
47.5°	880.5	876.4	878.4	890.5	904.6
50°	836.1	830.1	828.1	842.2	856.3
52.5°	787.8	785.8	779.7	791.8	807.9
55°	737.4	735.4	729.4	741.4	757.6
57.5°	689.1	683.0	677.0	687.0	705.2
60°	634.7	628.6	620.6	634.7	650.8
62.5°	580.3	572.2	566.2	578.2	596.4
65°	521.8	515.8	507.7	523.8	542.0
67.5°	467.4	461.4	451.3	465.4	477.5
70°	407.0	398.9	394.9	396.9	400.9
72.5°	348.6	344.5	338.5	322.4	318.3
75°	290.1	284.1	272.0	241.8	231.7
77.5°	231.7	227.7	205.5	179.3	179.3
80°	171.3	169.2	143.1	147.1	149.1
82.5°	116.9	112.8	104.8	102.8	102.8
85°	62.5	58.4	60.4	58.4	58.4
87.5°	24.2	24.2	26.2	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)