

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: P238848

Luminaire Tested: **22EN-LD2-39-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238848
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3798.3 lumens
Efficiency: N/A
Efficacy: 114.1 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

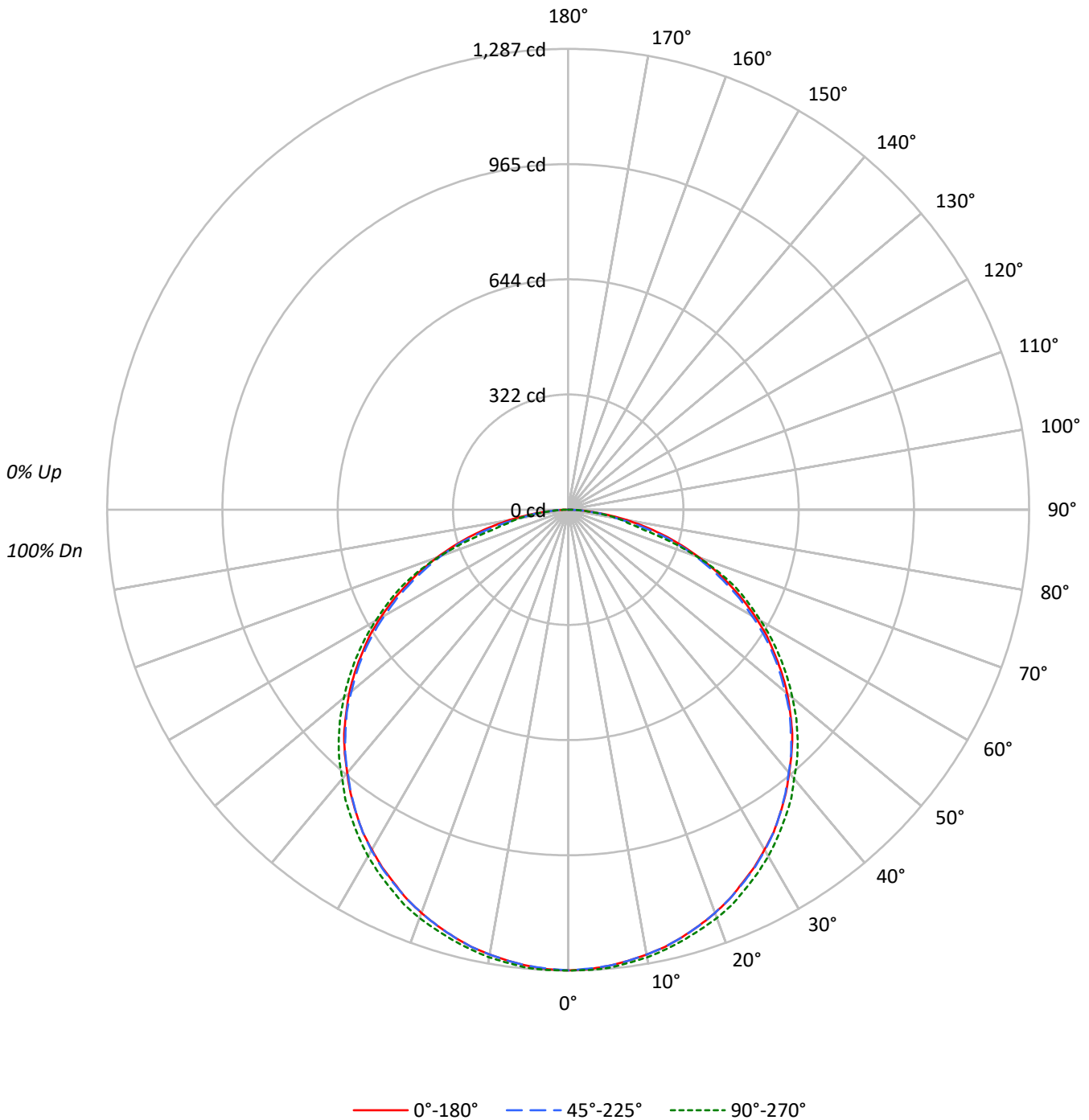
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4121	4121	4121
5°	4112	4112	4130
10°	4103	4103	4128
15°	4094	4094	4126
20°	4083	4083	4136
25°	4064	4071	4132
30°	4054	4061	4132
35°	4038	4038	4121
40°	4012	4004	4101
45°	4007	3981	4103
50°	3977	3938	4072
55°	3930	3888	4038
60°	3881	3794	3979
65°	3774	3673	3921
70°	3638	3530	3583
75°	3427	3213	2737
80°	3015	2519	2624
85°	2190	2120	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.2
10°-20°	349.3	9.2
20°-30°	533.2	14.0
30°-40°	649.4	17.1
40°-50°	683.6	18.0
50°-60°	629.4	16.6
60°-70°	489.9	12.9
70°-80°	271.9	7.2
80°-90°	69.9	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°	1004.2	26.4
0°-40°	1653.6	43.5
0°-60°	2966.6	78.1
0°-90°	3798.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3798.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1287	1287	1287	1287	1287	
5°	1279	1279	1279	1283	1285	122
15°	1235	1235	1235	1241	1244	349
25°	1150	1152	1152	1162	1169	531
35°	1033	1033	1033	1044	1054	646
45°	885	879	879	892	906	681
55°	704	702	696	708	723	630
65°	498	492	485	500	517	494
75°	277	271	260	231	221	292
85°	60	56	58	56	56	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1286.7	1286.7	1286.7	1286.7	1286.7
2.5°	1284.8	1282.9	1282.9	1286.7	1286.7
5°	1279.0	1279.0	1279.0	1282.9	1284.8
7.5°	1271.3	1271.3	1271.3	1277.1	1277.1
10°	1261.7	1259.8	1261.7	1265.6	1269.4
12.5°	1250.2	1248.3	1250.2	1254.0	1257.9
15°	1234.8	1234.8	1234.8	1240.6	1244.4
17.5°	1217.5	1215.6	1217.5	1223.3	1229.0
20°	1198.2	1198.2	1198.2	1205.9	1213.6
22.5°	1177.1	1175.2	1177.1	1186.7	1194.4
25°	1150.2	1152.1	1152.1	1161.7	1169.4
27.5°	1125.2	1123.2	1127.1	1134.8	1144.4
30°	1096.3	1096.3	1098.2	1107.9	1117.5
32.5°	1067.5	1065.5	1067.5	1077.1	1086.7
35°	1032.8	1032.8	1032.8	1044.4	1054.0
37.5°	998.2	996.3	996.3	1007.8	1021.3
40°	959.8	957.8	957.8	971.3	980.9
42.5°	923.2	921.3	921.3	932.8	946.3
45°	884.7	879.0	879.0	892.4	905.9
47.5°	840.5	836.7	838.6	850.1	863.6
50°	798.2	792.4	790.5	804.0	817.4
52.5°	752.0	750.1	744.3	755.9	771.3
55°	703.9	702.0	696.3	707.8	723.2
57.5°	657.8	652.0	646.2	655.9	673.2
60°	605.9	600.1	592.4	605.9	621.2
62.5°	553.9	546.2	540.5	552.0	569.3
65°	498.1	492.4	484.7	500.1	517.4
67.5°	446.2	440.4	430.8	444.3	455.8
70°	388.5	380.8	377.0	378.9	382.7
72.5°	332.7	328.9	323.1	307.7	303.9
75°	277.0	271.2	259.7	230.8	221.2
77.5°	221.2	217.3	196.2	171.2	171.2
80°	163.5	161.6	136.6	140.4	142.3
82.5°	111.6	107.7	100.0	98.1	98.1
85°	59.6	55.8	57.7	55.8	55.8
87.5°	23.1	23.1	25.0	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)