

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: P238828

Luminaire Tested: **22ENA-LD2-43-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238828
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: 22ENA-LD2-43-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4846.5 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

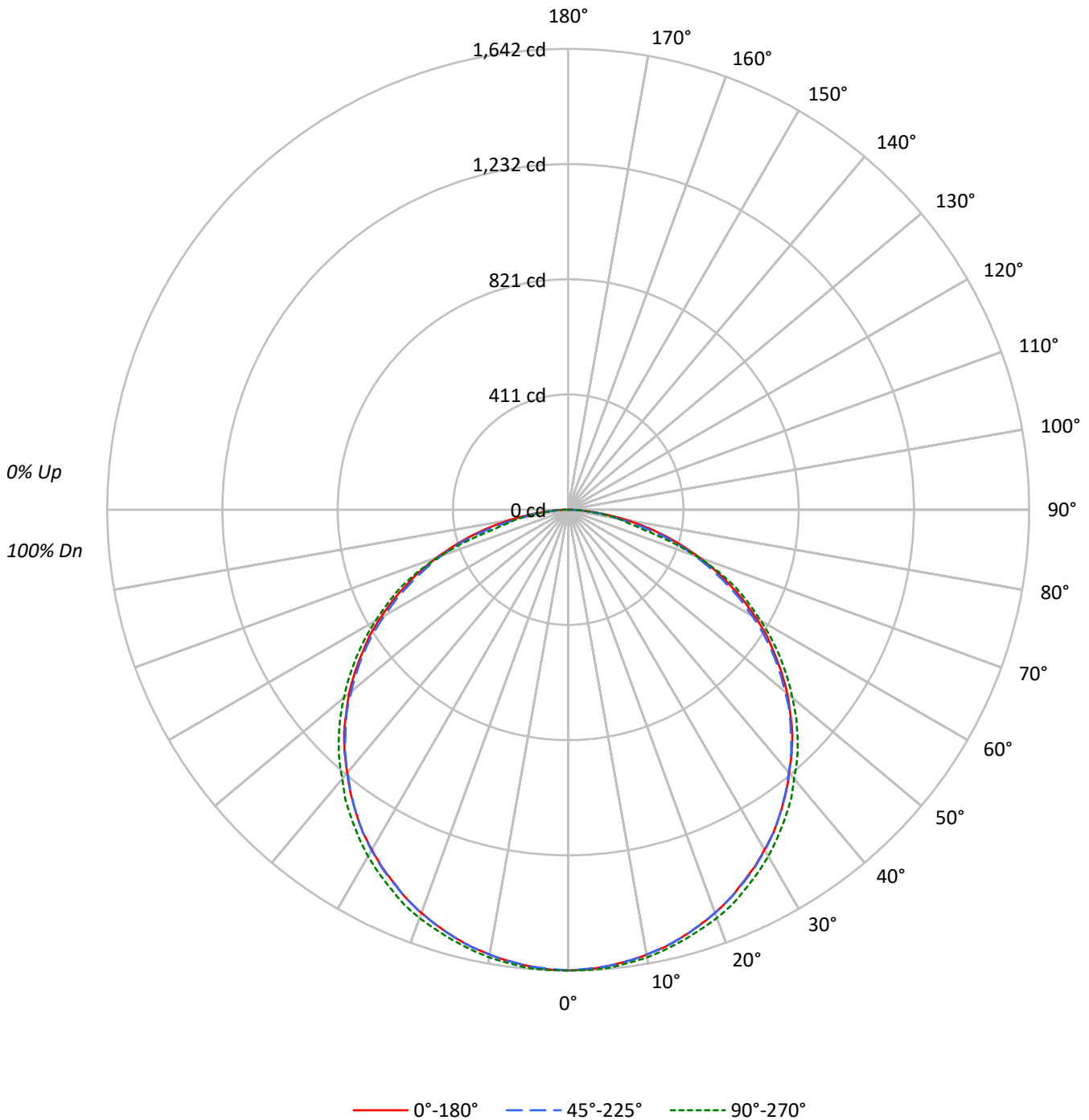
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5784	5784	5784
5°	5771	5771	5797
10°	5759	5759	5794
15°	5746	5746	5791
20°	5732	5732	5805
25°	5704	5714	5800
30°	5690	5700	5800
35°	5668	5668	5784
40°	5631	5620	5756
45°	5624	5587	5759
50°	5582	5528	5716
55°	5516	5456	5668
60°	5447	5326	5585
65°	5298	5155	5503
70°	5106	4954	5030
75°	4810	4509	3841
80°	4232	3534	3684
85°	3076	2975	2878



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.2
10°-20°	445.7	9.2
20°-30°	680.4	14.0
30°-40°	828.7	17.1
40°-50°	872.2	18.0
50°-60°	803.1	16.6
60°-70°	625.1	12.9
70°-80°	347.0	7.2
80°-90°	89.1	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°	1281.3	26.4
0°-40°	2110.0	43.5
0°-60°	3785.3	78.1
0°-90°	4846.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1632	1632	1632	1637	1639	155
15°	1576	1576	1576	1583	1588	445
25°	1468	1470	1470	1482	1492	677
35°	1318	1318	1318	1333	1345	825
45°	1129	1122	1122	1139	1156	869
55°	898	896	888	903	923	804
65°	636	628	618	638	660	630
75°	353	346	331	294	282	372
85°	76	71	74	71	71	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1641.8	1641.8	1641.8	1641.8	1641.8
2.5°	1639.4	1636.9	1636.9	1641.8	1641.8
5°	1632.0	1632.0	1632.0	1636.9	1639.4
7.5°	1622.2	1622.2	1622.2	1629.5	1629.5
10°	1609.9	1607.5	1609.9	1614.8	1619.7
12.5°	1595.2	1592.7	1595.2	1600.1	1605.0
15°	1575.6	1575.6	1575.6	1582.9	1587.8
17.5°	1553.5	1551.0	1553.5	1560.8	1568.2
20°	1528.9	1528.9	1528.9	1538.7	1548.6
22.5°	1501.9	1499.5	1501.9	1514.2	1524.0
25°	1467.6	1470.0	1470.0	1482.3	1492.1
27.5°	1435.7	1433.2	1438.1	1447.9	1460.2
30°	1398.9	1398.9	1401.3	1413.6	1425.9
32.5°	1362.0	1359.6	1362.0	1374.3	1386.6
35°	1317.9	1317.9	1317.9	1332.6	1344.9
37.5°	1273.7	1271.2	1271.2	1286.0	1303.1
40°	1224.6	1222.2	1222.2	1239.3	1251.6
42.5°	1178.0	1175.5	1175.5	1190.3	1207.4
45°	1128.9	1121.5	1121.5	1138.7	1155.9
47.5°	1072.5	1067.5	1070.0	1084.7	1101.9
50°	1018.5	1011.1	1008.6	1025.8	1043.0
52.5°	959.6	957.1	949.7	964.5	984.1
55°	898.2	895.8	888.4	903.1	922.8
57.5°	839.3	832.0	824.6	836.9	858.9
60°	773.1	765.7	755.9	773.1	792.7
62.5°	706.8	697.0	689.6	704.3	726.4
65°	635.6	628.3	618.4	638.1	660.2
67.5°	569.4	562.0	549.7	566.9	581.6
70°	495.7	485.9	481.0	483.5	488.4
72.5°	424.6	419.7	412.3	392.7	387.8
75°	353.4	346.0	331.3	294.5	282.2
77.5°	282.2	277.3	250.3	218.4	218.4
80°	208.6	206.1	174.2	179.2	181.6
82.5°	142.3	137.4	127.6	125.2	125.2
85°	76.1	71.2	73.6	71.2	71.2
87.5°	29.4	29.4	31.9	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)