

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: P238825

Luminaire Tested: **22ENA-LD2-43-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238825
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-L830-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.9 lumens
Efficiency: N/A
Efficacy: 110.6 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

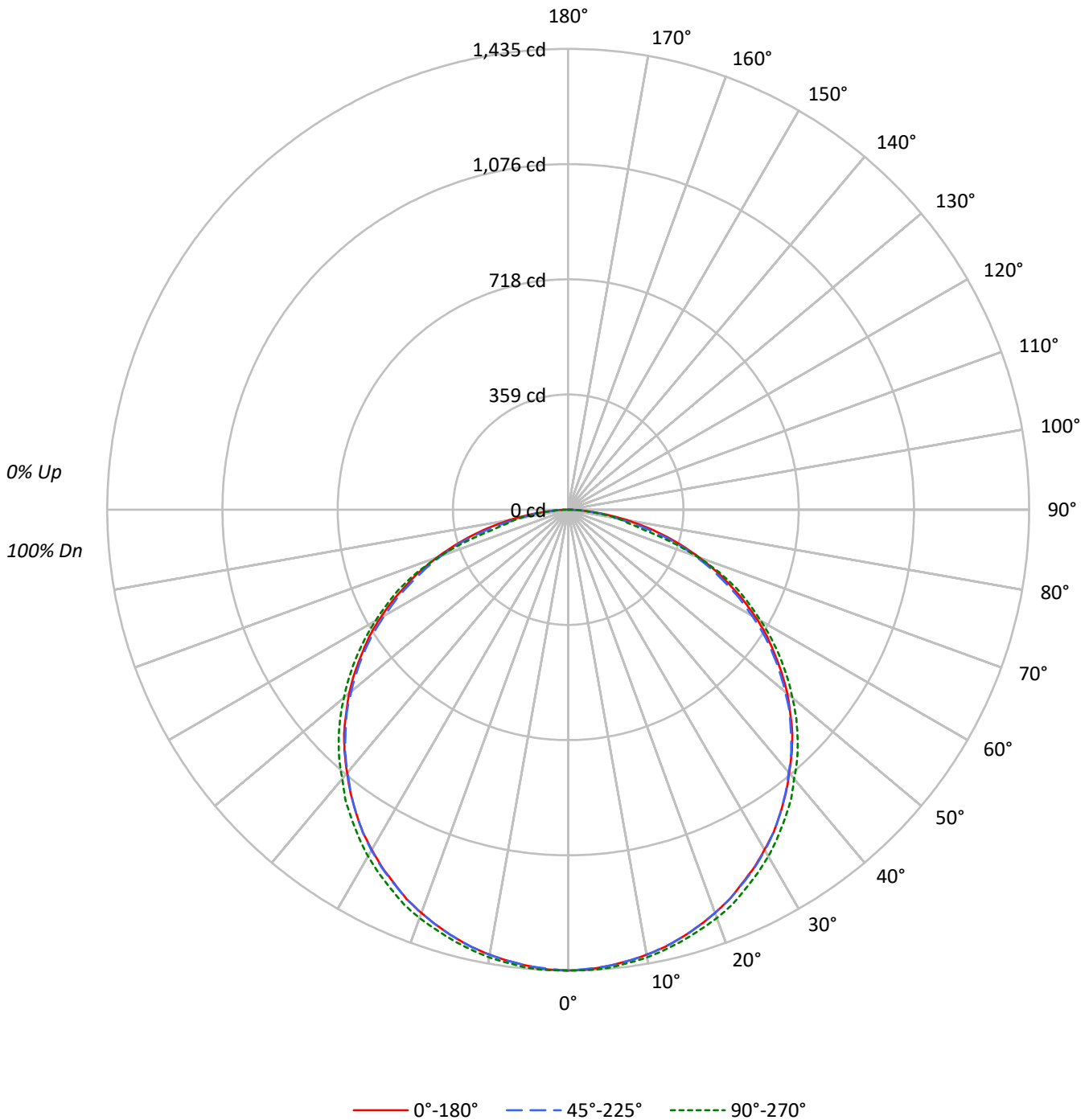
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5055	5055	5055
5°	5044	5044	5067
10°	5033	5033	5064
15°	5022	5022	5061
20°	5010	5010	5074
25°	4986	4994	5069
30°	4973	4982	5069
35°	4953	4953	5055
40°	4922	4912	5030
45°	4916	4883	5033
50°	4879	4832	4996
55°	4822	4769	4953
60°	4761	4654	4881
65°	4630	4505	4810
70°	4463	4330	4396
75°	4204	3942	3358
80°	3698	3090	3219
85°	2688	2599	2514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.2
10°-20°	389.5	9.2
20°-30°	594.6	14.0
30°-40°	724.3	17.1
40°-50°	762.4	18.0
50°-60°	701.9	16.6
60°-70°	546.3	12.9
70°-80°	303.3	7.2
80°-90°	77.9	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°	1119.9	26.4
0°-40°	1844.2	43.5
0°-60°	3308.4	78.1
0°-90°	4235.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1426	1426	1426	1431	1433	136
15°	1377	1377	1377	1384	1388	389
25°	1283	1285	1285	1296	1304	592
35°	1152	1152	1152	1165	1175	721
45°	987	980	980	995	1010	760
55°	785	783	776	789	806	703
65°	556	549	540	558	577	551
75°	309	302	290	257	247	326
85°	66	62	64	62	62	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.0	1435.0	1435.0	1435.0	1435.0
2.5°	1432.8	1430.7	1430.7	1435.0	1435.0
5°	1426.4	1426.4	1426.4	1430.7	1432.8
7.5°	1417.8	1417.8	1417.8	1424.2	1424.2
10°	1407.1	1404.9	1407.1	1411.4	1415.7
12.5°	1394.2	1392.1	1394.2	1398.5	1402.8
15°	1377.1	1377.1	1377.1	1383.5	1387.8
17.5°	1357.8	1355.6	1357.8	1364.2	1370.6
20°	1336.3	1336.3	1336.3	1344.9	1353.5
22.5°	1312.7	1310.6	1312.7	1323.4	1332.0
25°	1282.7	1284.8	1284.8	1295.5	1304.1
27.5°	1254.8	1252.7	1256.9	1265.5	1276.2
30°	1222.6	1222.6	1224.8	1235.5	1246.2
32.5°	1190.4	1188.3	1190.4	1201.2	1211.9
35°	1151.8	1151.8	1151.8	1164.7	1175.4
37.5°	1113.2	1111.1	1111.1	1124.0	1139.0
40°	1070.3	1068.2	1068.2	1083.2	1093.9
42.5°	1029.6	1027.4	1027.4	1040.3	1055.3
45°	986.7	980.2	980.2	995.3	1010.3
47.5°	937.3	933.1	935.2	948.1	963.1
50°	890.2	883.7	881.6	896.6	911.6
52.5°	838.7	836.5	830.1	843.0	860.1
55°	785.1	782.9	776.5	789.3	806.5
57.5°	733.6	727.1	720.7	731.4	750.7
60°	675.7	669.2	660.6	675.7	692.8
62.5°	617.7	609.2	602.7	615.6	634.9
65°	555.5	549.1	540.5	557.7	577.0
67.5°	497.6	491.2	480.5	495.5	508.4
70°	433.3	424.7	420.4	422.6	426.8
72.5°	371.1	366.8	360.4	343.2	338.9
75°	308.9	302.4	289.6	257.4	246.7
77.5°	246.7	242.4	218.8	190.9	190.9
80°	182.3	180.2	152.3	156.6	158.7
82.5°	124.4	120.1	111.5	109.4	109.4
85°	66.5	62.2	64.3	62.2	62.2
87.5°	25.7	25.7	27.9	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)