

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: P238802

Luminaire Tested: **22EN-LD2-43-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238802
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-LD2-43-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: 4478.4 lumens
Efficiency: N/A
Efficacy: 116.9 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

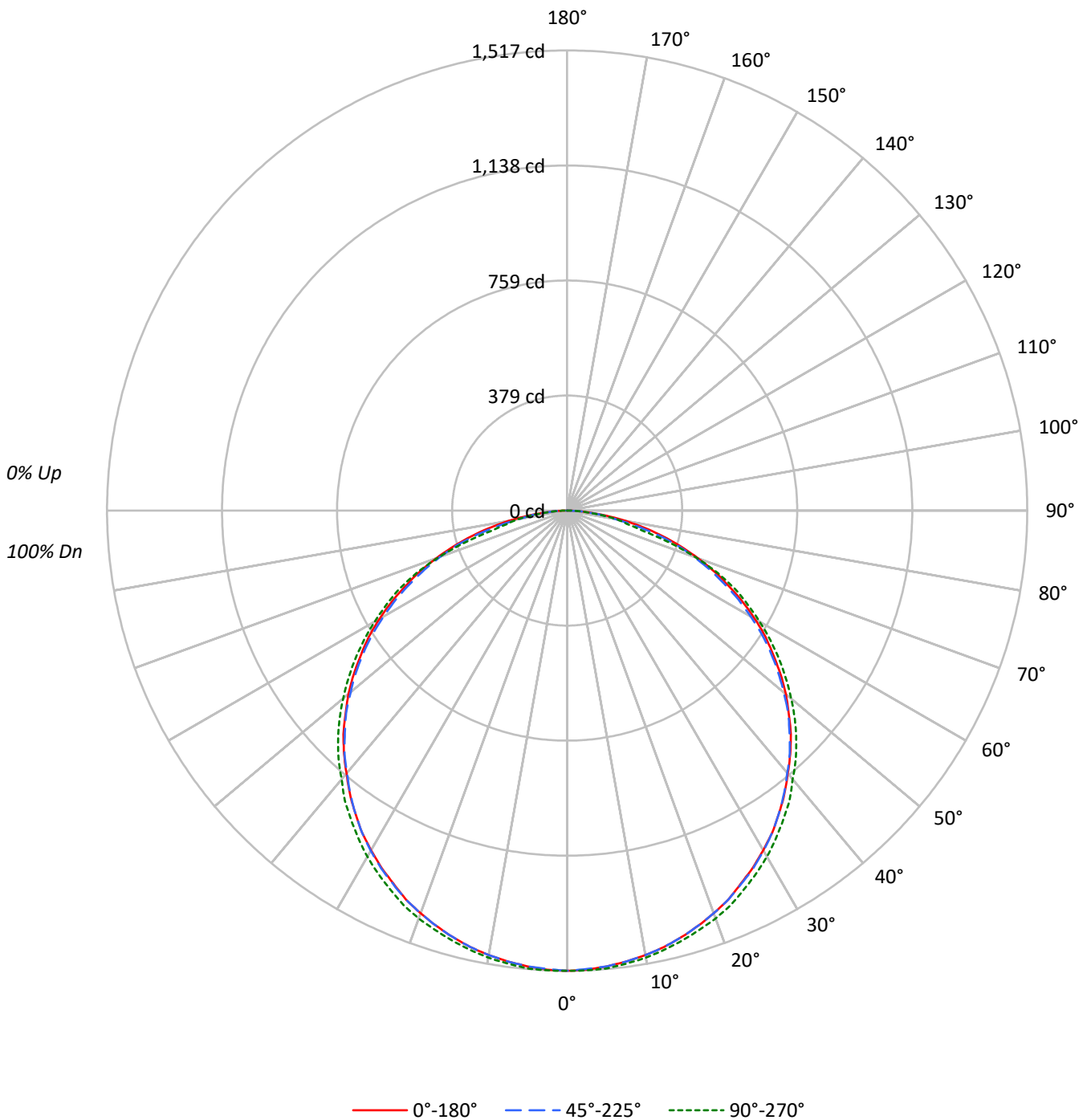
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4858	4858	4858
5°	4848	4848	4870
10°	4838	4838	4867
15°	4827	4827	4864
20°	4815	4815	4877
25°	4792	4800	4872
30°	4780	4788	4872
35°	4761	4761	4858
40°	4731	4721	4835
45°	4725	4694	4837
50°	4689	4643	4802
55°	4634	4583	4761
60°	4575	4474	4692
65°	4450	4331	4622
70°	4289	4162	4226
75°	4041	3788	3227
80°	3556	2969	3095
85°	2583	2499	2418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	3.2
10°-20°	411.8	9.2
20°-30°	628.7	14.0
30°-40°	765.7	17.1
40°-50°	806.0	18.0
50°-60°	742.1	16.6
60°-70°	577.6	12.9
70°-80°	320.6	7.2
80°-90°	82.4	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°	1184.0	26.4
0°-40°	1949.8	43.5
0°-60°	3497.8	78.1
0°-90°	4478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4478.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1517	1517	1517	1517	1517	
5°	1508	1508	1508	1513	1515	143
15°	1456	1456	1456	1463	1467	411
25°	1356	1358	1358	1370	1379	626
35°	1218	1218	1218	1231	1243	762
45°	1043	1036	1036	1052	1068	803
55°	830	828	821	834	853	743
65°	587	580	572	590	610	582
75°	327	320	306	272	261	344
85°	70	66	68	66	66	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517.1	1517.1	1517.1	1517.1	1517.1
2.5°	1514.9	1512.6	1512.6	1517.1	1517.1
5°	1508.1	1508.1	1508.1	1512.6	1514.9
7.5°	1499.0	1499.0	1499.0	1505.8	1505.8
10°	1487.6	1485.4	1487.6	1492.2	1496.7
12.5°	1474.0	1471.8	1474.0	1478.6	1483.1
15°	1455.9	1455.9	1455.9	1462.7	1467.2
17.5°	1435.5	1433.2	1435.5	1442.3	1449.1
20°	1412.8	1412.8	1412.8	1421.9	1431.0
22.5°	1387.9	1385.6	1387.9	1399.2	1408.3
25°	1356.1	1358.4	1358.4	1369.7	1378.8
27.5°	1326.6	1324.4	1328.9	1338.0	1349.3
30°	1292.6	1292.6	1294.9	1306.2	1317.6
32.5°	1258.6	1256.3	1258.6	1269.9	1281.3
35°	1217.8	1217.8	1217.8	1231.4	1242.7
37.5°	1177.0	1174.7	1174.7	1188.3	1204.2
40°	1131.6	1129.3	1129.3	1145.2	1156.6
42.5°	1088.5	1086.3	1086.3	1099.9	1115.7
45°	1043.2	1036.4	1036.4	1052.2	1068.1
47.5°	991.0	986.5	988.7	1002.3	1018.2
50°	941.1	934.3	932.0	947.9	963.8
52.5°	886.7	884.4	877.6	891.2	909.4
55°	830.0	827.7	820.9	834.5	852.7
57.5°	775.6	768.8	762.0	773.3	793.7
60°	714.3	707.5	698.5	714.3	732.5
62.5°	653.1	644.0	637.2	650.8	671.3
65°	587.3	580.5	571.5	589.6	610.0
67.5°	526.1	519.3	508.0	523.9	537.5
70°	458.1	449.0	444.5	446.7	451.3
72.5°	392.3	387.8	381.0	362.8	358.3
75°	326.6	319.8	306.1	272.1	260.8
77.5°	260.8	256.3	231.3	201.8	201.8
80°	192.8	190.5	161.0	165.5	167.8
82.5°	131.5	127.0	117.9	115.7	115.7
85°	70.3	65.8	68.0	65.8	65.8
87.5°	27.2	27.2	29.5	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)