

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: P238852

Luminaire Tested: **22EN-LD2-43-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238852
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-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: 4274.9 lumens
Efficiency: N/A
Efficacy: 111.6 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

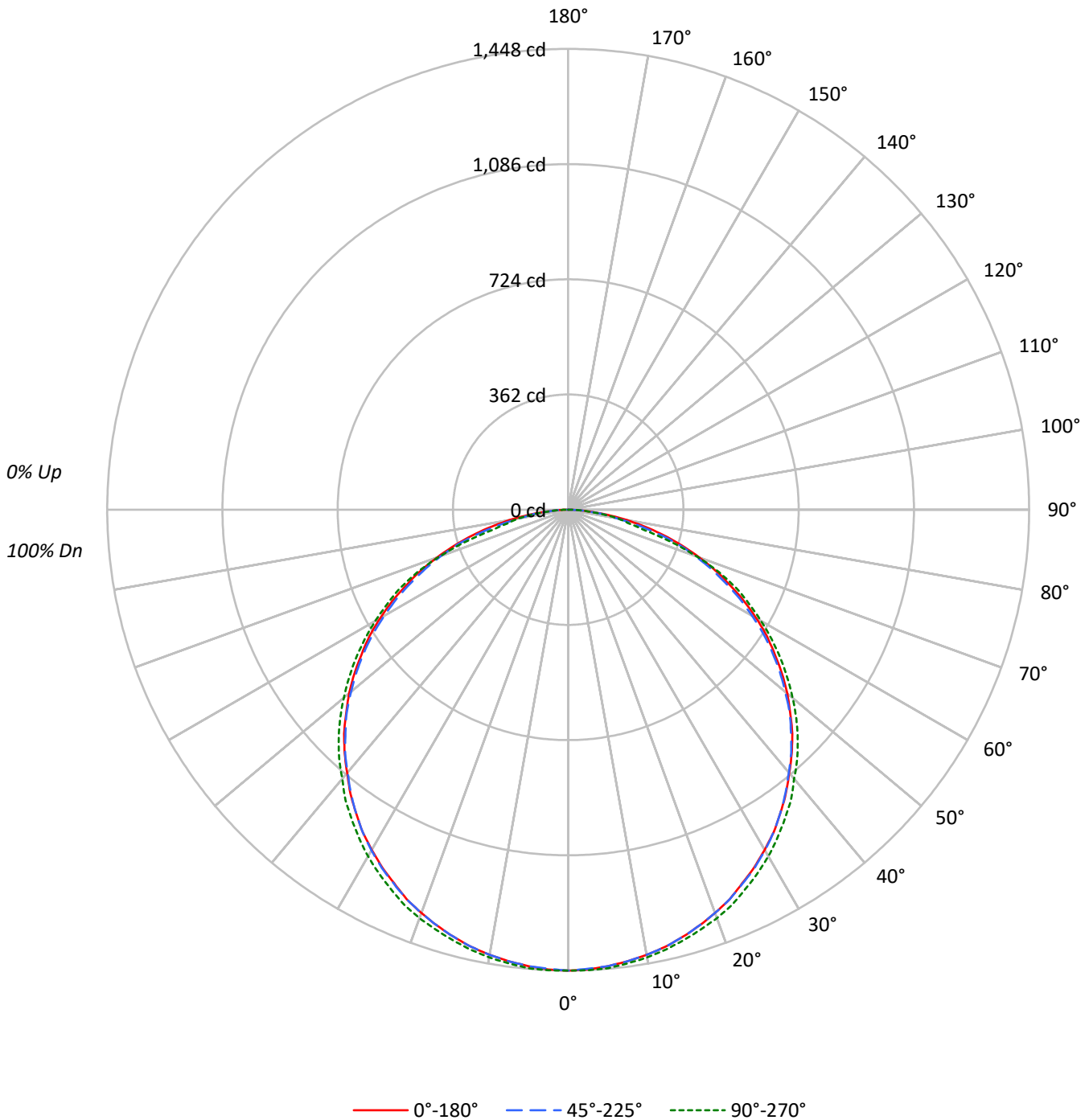
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4638	4638	4638
5°	4628	4628	4648
10°	4618	4618	4646
15°	4607	4607	4643
20°	4596	4596	4655
25°	4574	4582	4651
30°	4563	4571	4651
35°	4544	4544	4637
40°	4516	4507	4615
45°	4510	4481	4618
50°	4475	4433	4584
55°	4424	4375	4544
60°	4368	4270	4478
65°	4248	4134	4413
70°	4095	3973	4034
75°	3857	3616	3080
80°	3393	2835	2954
85°	2466	2385	2308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.2
10°-20°	393.1	9.2
20°-30°	600.1	14.0
30°-40°	730.9	17.1
40°-50°	769.4	18.0
50°-60°	708.4	16.6
60°-70°	551.4	12.9
70°-80°	306.0	7.2
80°-90°	78.6	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°	1130.2	26.4
0°-40°	1861.1	43.5
0°-60°	3338.8	78.1
0°-90°	4274.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4274.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1440	1440	1440	1444	1446	137
15°	1390	1390	1390	1396	1400	392
25°	1294	1297	1297	1308	1316	597
35°	1162	1162	1162	1175	1186	728
45°	996	989	989	1004	1020	767
55°	792	790	784	797	814	709
65°	561	554	546	563	582	556
75°	312	305	292	260	249	328
85°	67	63	65	63	63	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.2	1448.2	1448.2	1448.2	1448.2
2.5°	1446.0	1443.8	1443.8	1448.2	1448.2
5°	1439.5	1439.5	1439.5	1443.8	1446.0
7.5°	1430.8	1430.8	1430.8	1437.3	1437.3
10°	1420.0	1417.9	1420.0	1424.4	1428.7
12.5°	1407.0	1404.9	1407.0	1411.4	1415.7
15°	1389.7	1389.7	1389.7	1396.2	1400.5
17.5°	1370.2	1368.1	1370.2	1376.7	1383.2
20°	1348.6	1348.6	1348.6	1357.2	1365.9
22.5°	1324.8	1322.6	1324.8	1335.6	1344.3
25°	1294.5	1296.6	1296.6	1307.5	1316.1
27.5°	1266.3	1264.2	1268.5	1277.2	1288.0
30°	1233.9	1233.9	1236.0	1246.8	1257.7
32.5°	1201.4	1199.2	1201.4	1212.2	1223.0
35°	1162.4	1162.4	1162.4	1175.4	1186.2
37.5°	1123.5	1121.3	1121.3	1134.3	1149.4
40°	1080.2	1078.0	1078.0	1093.2	1104.0
42.5°	1039.0	1036.9	1036.9	1049.9	1065.0
45°	995.7	989.3	989.3	1004.4	1019.6
47.5°	946.0	941.6	943.8	956.8	971.9
50°	898.3	891.8	889.7	904.8	920.0
52.5°	846.4	844.2	837.7	850.7	868.0
55°	792.3	790.1	783.6	796.6	813.9
57.5°	740.3	733.8	727.3	738.2	757.6
60°	681.9	675.4	666.7	681.9	699.2
62.5°	623.4	614.8	608.3	621.3	640.7
65°	560.6	554.2	545.5	562.8	582.3
67.5°	502.2	495.7	484.9	500.0	513.0
70°	437.3	428.6	424.3	426.4	430.8
72.5°	374.5	370.2	363.7	346.3	342.0
75°	311.7	305.2	292.2	259.8	248.9
77.5°	248.9	244.6	220.8	192.7	192.7
80°	184.0	181.8	153.7	158.0	160.2
82.5°	125.6	121.2	112.6	110.4	110.4
85°	67.1	62.8	64.9	62.8	62.8
87.5°	26.0	26.0	28.1	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)