

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: P239022

Luminaire Tested: **24ENA-LD2-58-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-58-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4900.8 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

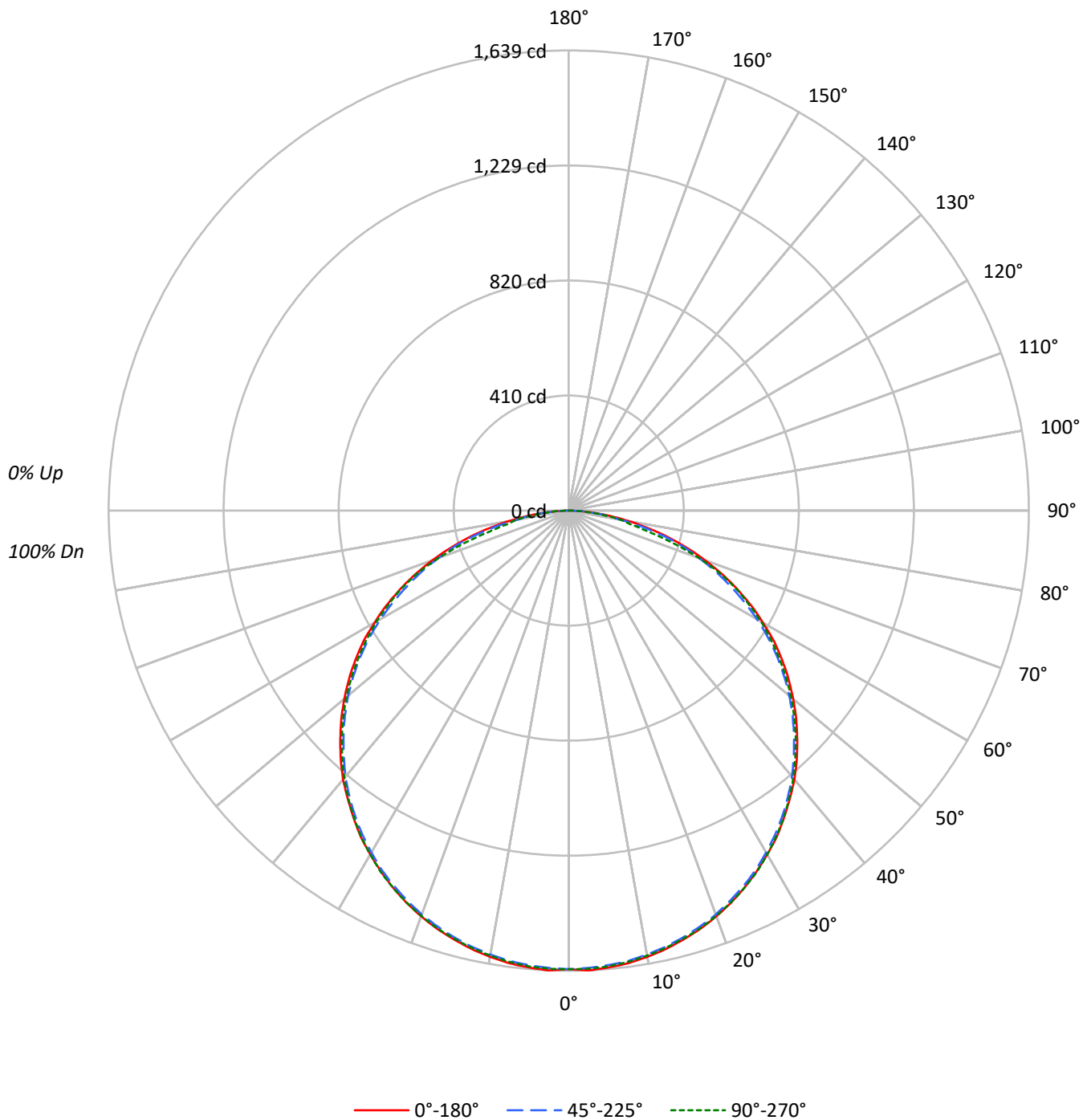
Input Watts (W): 47
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2752	2752	2752
5°	2762	2748	2755
10°	2761	2747	2754
15°	2758	2745	2752
20°	2757	2745	2754
25°	2754	2741	2754
30°	2751	2735	2751
35°	2748	2730	2744
40°	2750	2721	2736
45°	2742	2703	2723
50°	2735	2687	2711
55°	2725	2659	2686
60°	2691	2608	2664
65°	2637	2527	2621
70°	2542	2436	2431
75°	2393	2286	1933
80°	2106	1788	1838
85°	1662	1564	1446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.2
10°-20°	444.9	9.1
20°-30°	680.8	13.9
30°-40°	832.1	17.0
40°-50°	879.3	17.9
50°-60°	814.7	16.6
60°-70°	638.3	13.0
70°-80°	360.9	7.4
80°-90°	95.0	1.9
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°	1280.4	26.1
0°-40°	2112.6	43.1
0°-60°	3806.6	77.7
0°-90°	4900.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4900.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1633	1628	1625	1624	1629	155
15°	1581	1575	1574	1573	1578	447
25°	1482	1476	1474	1474	1482	683
35°	1336	1330	1327	1327	1334	837
45°	1151	1143	1135	1135	1143	888
55°	928	918	905	907	914	829
65°	662	649	634	642	657	654
75°	368	357	351	313	297	387
85°	86	81	81	77	75	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.3	1633.3	1633.3	1633.3	1633.3
2.5°	1639.4	1632.2	1630.2	1628.1	1633.3
5°	1633.3	1628.1	1625.1	1624.0	1629.2
7.5°	1626.1	1619.9	1617.9	1615.8	1621.0
10°	1613.8	1607.7	1605.6	1604.6	1609.7
12.5°	1599.5	1592.3	1591.3	1590.2	1595.4
15°	1581.0	1574.9	1573.9	1572.8	1578.0
17.5°	1561.6	1555.4	1553.4	1552.4	1559.5
20°	1538.0	1531.9	1530.9	1529.8	1536.0
22.5°	1511.4	1505.3	1503.2	1504.2	1510.4
25°	1481.7	1475.6	1474.5	1474.5	1481.7
27.5°	1448.9	1442.8	1442.8	1442.8	1451.0
30°	1414.1	1409.0	1405.9	1407.0	1414.1
32.5°	1378.3	1370.1	1368.0	1369.1	1376.2
35°	1336.3	1330.2	1327.1	1327.1	1334.3
37.5°	1293.3	1287.1	1283.1	1283.1	1290.2
40°	1250.3	1241.1	1237.0	1234.9	1244.1
42.5°	1202.2	1195.0	1185.8	1185.8	1194.0
45°	1151.0	1142.8	1134.6	1134.6	1142.8
47.5°	1098.7	1090.5	1081.3	1081.3	1089.5
50°	1043.4	1035.2	1025.0	1025.0	1034.2
52.5°	987.1	977.9	966.6	965.6	974.8
55°	927.7	917.5	905.2	907.2	914.4
57.5°	867.3	854.0	841.7	841.7	853.0
60°	798.7	787.4	774.1	776.2	790.5
62.5°	733.2	718.8	705.5	710.6	722.9
65°	661.5	649.2	633.8	642.0	657.4
67.5°	590.8	577.5	565.2	575.5	582.6
70°	516.1	503.8	494.6	494.6	493.6
72.5°	441.3	430.1	428.0	408.6	396.3
75°	367.6	357.4	351.2	313.3	297.0
77.5°	290.8	287.7	268.3	228.3	223.2
80°	217.1	219.1	184.3	185.3	189.4
82.5°	149.5	146.4	138.2	132.1	130.0
85°	86.0	80.9	80.9	76.8	74.8
87.5°	28.7	31.7	31.7	31.7	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)