

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: P238877

Luminaire Tested: **24EN-LD2-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238877
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: 24EN-LD2-30-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3023.1 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

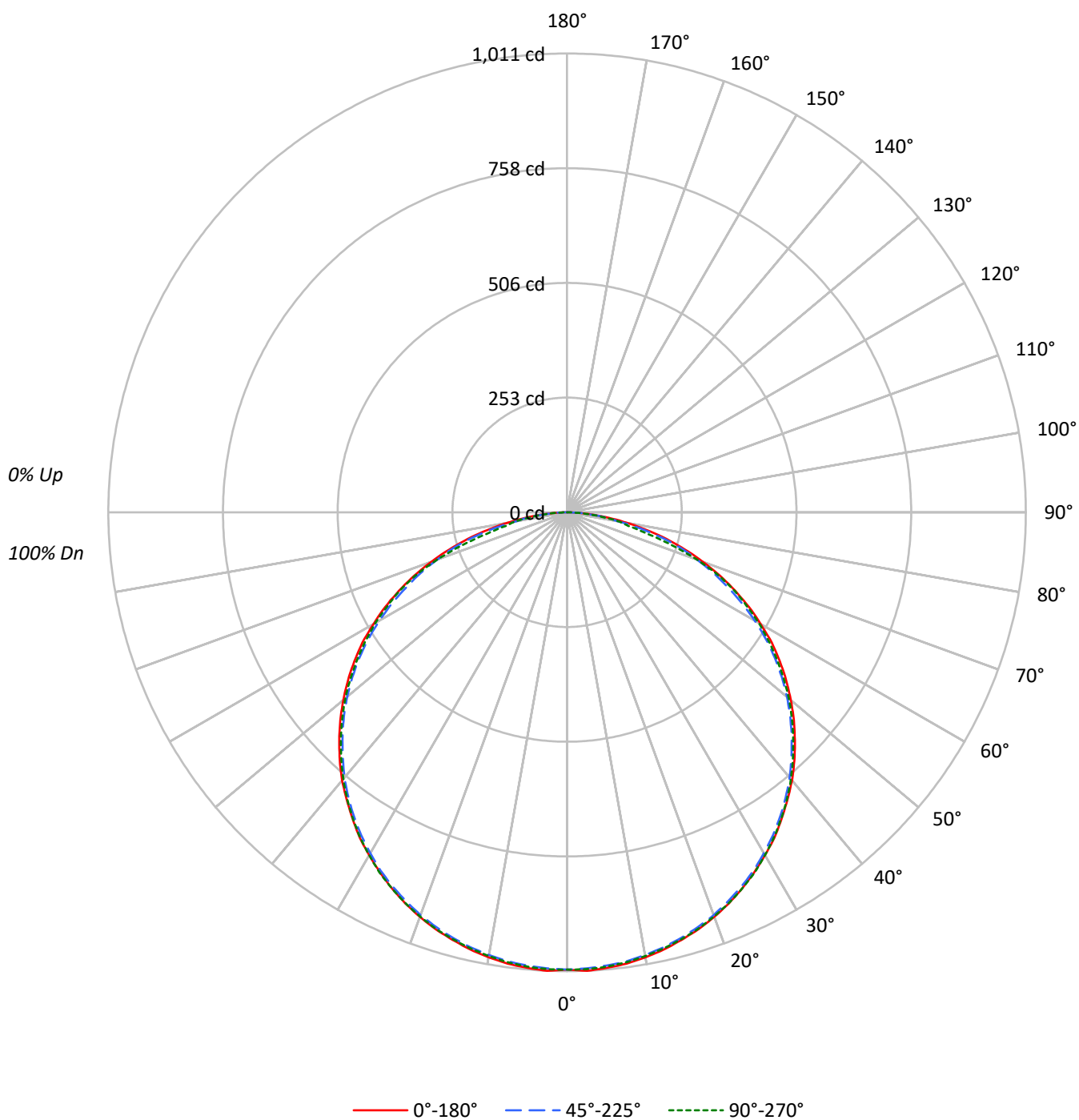
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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	97	94	97	94	91	93	90	88	90	87	85	83	
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58	
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49	
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42	
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37	
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32	
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29	
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26	
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1543	1543	1543
5°	1549	1541	1545
10°	1548	1540	1544
15°	1546	1539	1543
20°	1546	1539	1544
25°	1545	1537	1545
30°	1543	1534	1543
35°	1541	1531	1539
40°	1542	1526	1534
45°	1538	1516	1527
50°	1534	1507	1520
55°	1528	1491	1506
60°	1509	1463	1494
65°	1479	1417	1470
70°	1425	1366	1363
75°	1342	1282	1084
80°	1181	1003	1031
85°	933	877	810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.2
10°-20°	274.4	9.1
20°-30°	420.0	13.9
30°-40°	513.3	17.0
40°-50°	542.4	17.9
50°-60°	502.6	16.6
60°-70°	393.7	13.0
70°-80°	222.6	7.4
80°-90°	58.6	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°	789.8	26.1
0°-40°	1303.1	43.1
0°-60°	2348.1	77.7
0°-90°	3023.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3023.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1008	1004	1002	1002	1005	96
15°	975	972	971	970	973	275
25°	914	910	910	910	914	421
35°	824	820	819	819	823	516
45°	710	705	700	700	705	548
55°	572	566	558	560	564	511
65°	408	400	391	396	406	403
75°	227	220	217	193	183	239
85°	53	50	50	47	46	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.5	1007.5	1007.5	1007.5	1007.5
2.5°	1011.2	1006.8	1005.6	1004.3	1007.5
5°	1007.5	1004.3	1002.4	1001.8	1004.9
7.5°	1003.0	999.2	998.0	996.7	999.9
10°	995.5	991.7	990.4	989.8	992.9
12.5°	986.6	982.2	981.6	980.9	984.1
15°	975.2	971.5	970.8	970.2	973.4
17.5°	963.2	959.5	958.2	957.6	962.0
20°	948.7	944.9	944.3	943.7	947.5
22.5°	932.3	928.5	927.2	927.9	931.7
25°	914.0	910.2	909.6	909.6	914.0
27.5°	893.8	890.0	890.0	890.0	895.0
30°	872.3	869.1	867.2	867.9	872.3
32.5°	850.2	845.1	843.9	844.5	848.9
35°	824.3	820.5	818.6	818.6	823.0
37.5°	797.8	794.0	791.4	791.4	795.9
40°	771.2	765.5	763.0	761.8	767.4
42.5°	741.5	737.1	731.4	731.4	736.5
45°	710.0	704.9	699.9	699.9	704.9
47.5°	677.7	672.7	667.0	667.0	672.1
50°	643.6	638.6	632.3	632.3	638.0
52.5°	608.9	603.2	596.3	595.6	601.3
55°	572.3	565.9	558.4	559.6	564.1
57.5°	535.0	526.8	519.2	519.2	526.2
60°	492.7	485.7	477.5	478.8	487.6
62.5°	452.3	443.4	435.2	438.4	445.9
65°	408.0	400.5	391.0	396.0	405.5
67.5°	364.5	356.2	348.7	355.0	359.4
70°	318.3	310.8	305.1	305.1	304.4
72.5°	272.2	265.3	264.0	252.0	244.4
75°	226.8	220.4	216.7	193.3	183.2
77.5°	179.4	177.5	165.5	140.9	137.7
80°	133.9	135.2	113.7	114.3	116.9
82.5°	92.2	90.3	85.3	81.5	80.2
85°	53.1	49.9	49.9	47.4	46.1
87.5°	17.7	19.6	19.6	19.6	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)