

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: P238917

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238917
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-LD2-30-UNV-L830-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2947.5 lumens
Efficiency: N/A
Efficacy: 119.8 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

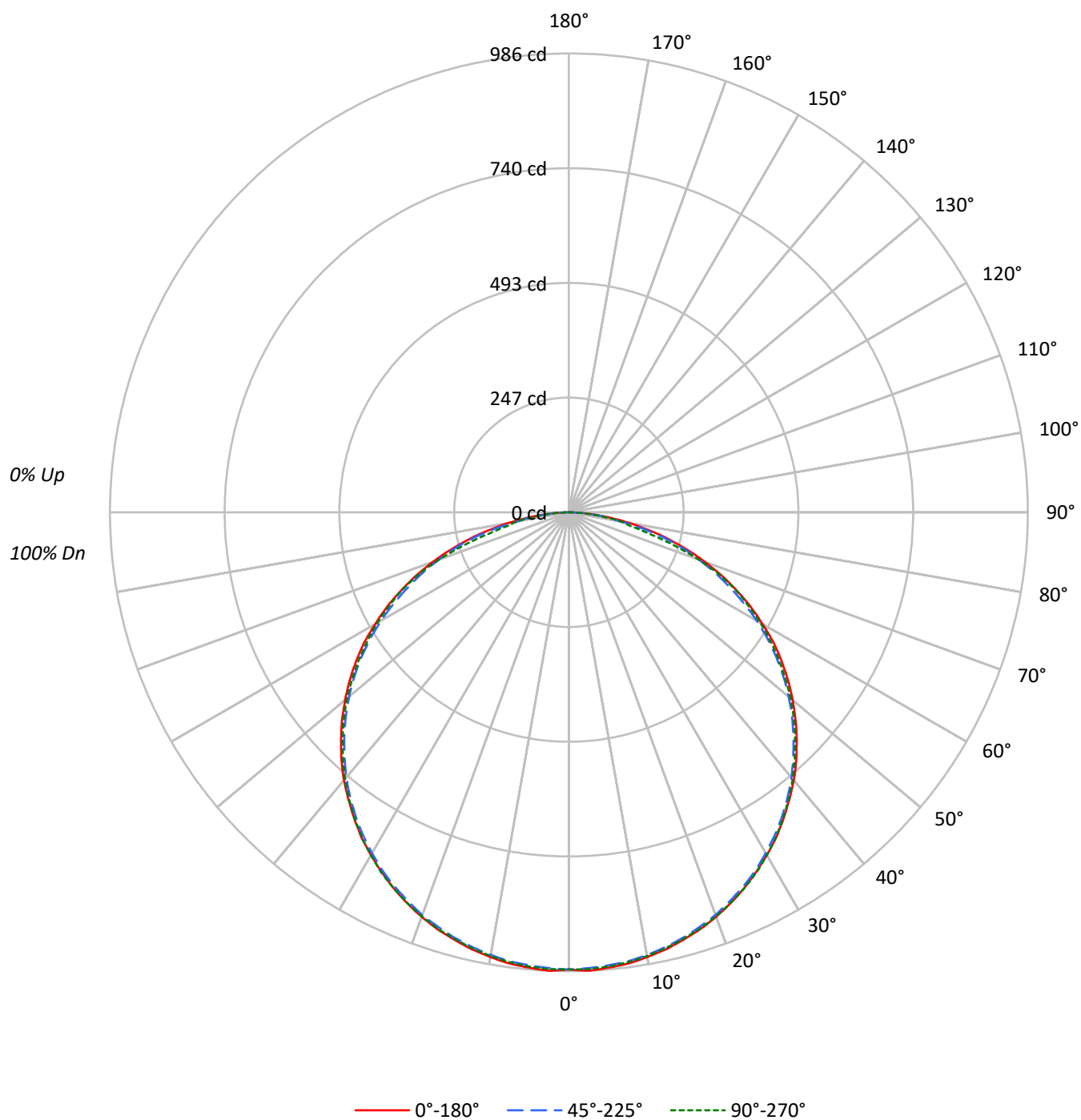
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1655	1655	1655
5°	1661	1653	1657
10°	1660	1652	1656
15°	1659	1651	1655
20°	1658	1651	1656
25°	1657	1649	1657
30°	1655	1645	1655
35°	1653	1641	1650
40°	1654	1636	1646
45°	1649	1626	1638
50°	1645	1616	1630
55°	1639	1599	1615
60°	1619	1569	1602
65°	1586	1520	1576
70°	1529	1465	1462
75°	1439	1375	1163
80°	1267	1076	1105
85°	999	941	870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.2
10°-20°	267.6	9.1
20°-30°	409.4	13.9
30°-40°	500.5	17.0
40°-50°	528.9	17.9
50°-60°	490.0	16.6
60°-70°	383.9	13.0
70°-80°	217.0	7.4
80°-90°	57.2	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°	770.1	26.1
0°-40°	1270.5	43.1
0°-60°	2289.4	77.7
0°-90°	2947.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	982	979	977	977	980	93
15°	951	947	947	946	949	269
25°	891	887	887	887	891	411
35°	804	800	798	798	802	503
45°	692	687	682	682	687	534
55°	558	552	544	546	550	498
65°	398	390	381	386	395	393
75°	221	215	211	188	179	233
85°	52	49	49	46	45	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.3	982.3	982.3	982.3	982.3
2.5°	986.0	981.7	980.4	979.2	982.3
5°	982.3	979.2	977.3	976.7	979.8
7.5°	978.0	974.3	973.0	971.8	974.9
10°	970.6	966.9	965.6	965.0	968.1
12.5°	961.9	957.6	957.0	956.4	959.5
15°	950.9	947.2	946.6	945.9	949.0
17.5°	939.2	935.5	934.2	933.6	937.9
20°	925.0	921.3	920.7	920.1	923.8
22.5°	909.0	905.3	904.1	904.7	908.4
25°	891.1	887.4	886.8	886.8	891.1
27.5°	871.4	867.7	867.7	867.7	872.7
30°	850.5	847.4	845.6	846.2	850.5
32.5°	828.9	824.0	822.8	823.4	827.7
35°	803.7	800.0	798.1	798.1	802.4
37.5°	777.8	774.1	771.7	771.7	776.0
40°	751.9	746.4	743.9	742.7	748.3
42.5°	723.0	718.7	713.1	713.1	718.1
45°	692.2	687.3	682.4	682.4	687.3
47.5°	660.8	655.9	650.3	650.3	655.3
50°	627.5	622.6	616.5	616.5	622.0
52.5°	593.7	588.1	581.4	580.7	586.3
55°	558.0	551.8	544.4	545.6	549.9
57.5°	521.6	513.6	506.2	506.2	513.0
60°	480.4	473.6	465.6	466.8	475.4
62.5°	440.9	432.3	424.3	427.4	434.8
65°	397.8	390.4	381.2	386.1	395.4
67.5°	355.3	347.3	339.9	346.1	350.4
70°	310.4	303.0	297.5	297.5	296.8
72.5°	265.4	258.7	257.4	245.7	238.3
75°	221.1	214.9	211.2	188.4	178.6
77.5°	174.9	173.1	161.4	137.3	134.3
80°	130.6	131.8	110.9	111.5	113.9
82.5°	89.9	88.1	83.1	79.4	78.2
85°	51.7	48.7	48.7	46.2	45.0
87.5°	17.2	19.1	19.1	19.1	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)