

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: P238920

Luminaire Tested: **24ENA-LD2-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238920
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-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373.3 lumens
Efficiency: N/A
Efficacy: 137.1 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

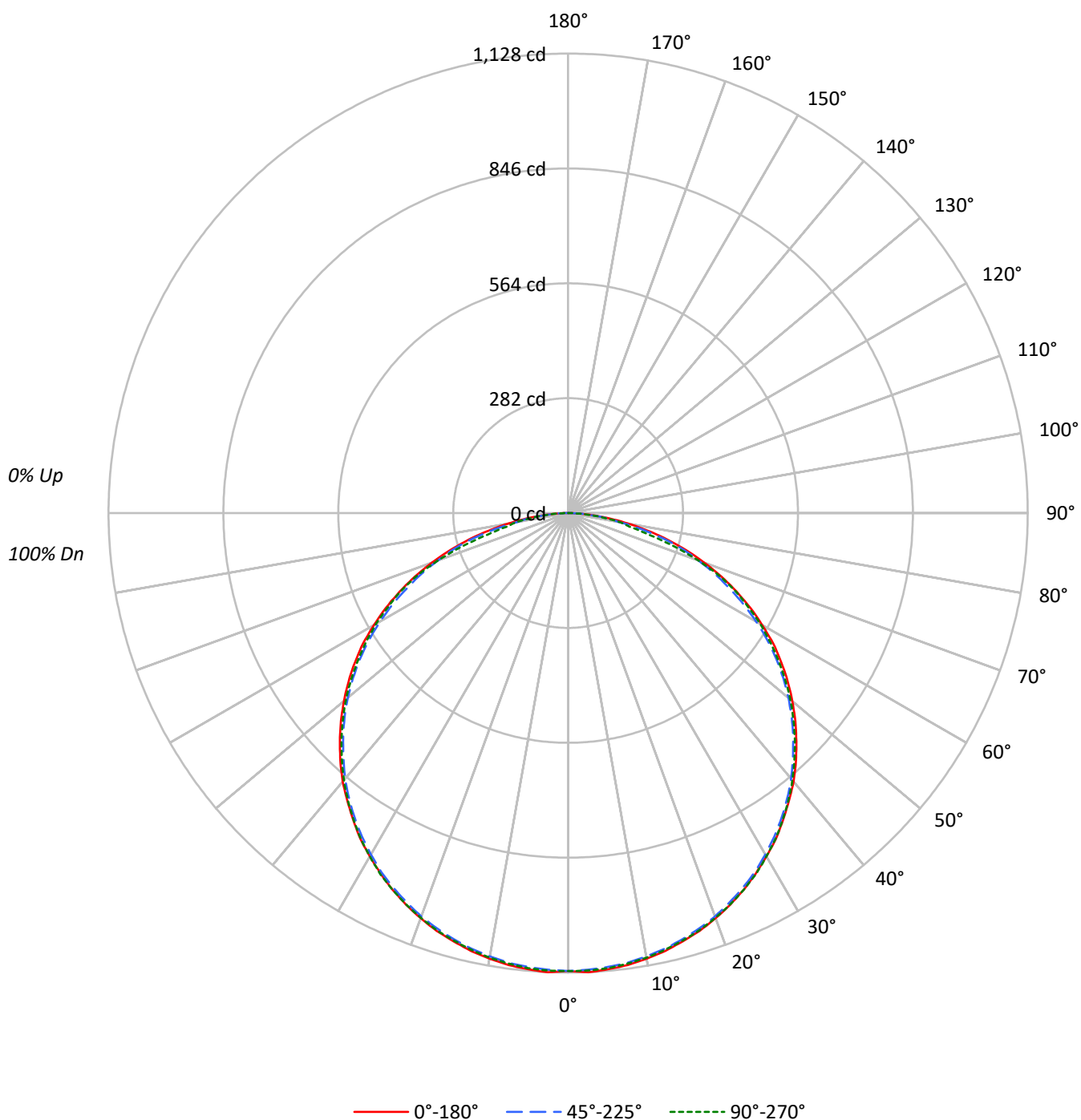
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1894	1894	1894
5°	1901	1892	1897
10°	1900	1891	1896
15°	1898	1890	1894
20°	1898	1889	1895
25°	1896	1887	1896
30°	1893	1883	1893
35°	1892	1879	1889
40°	1893	1873	1883
45°	1888	1861	1874
50°	1882	1849	1866
55°	1876	1830	1849
60°	1853	1795	1833
65°	1815	1739	1804
70°	1750	1677	1673
75°	1647	1574	1331
80°	1450	1231	1265
85°	1144	1077	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.2
10°-20°	306.2	9.1
20°-30°	468.6	13.9
30°-40°	572.8	17.0
40°-50°	605.3	17.9
50°-60°	560.8	16.6
60°-70°	439.4	13.0
70°-80°	248.4	7.4
80°-90°	65.4	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°	881.3	26.1
0°-40°	1454.1	43.1
0°-60°	2620.1	77.7
0°-90°	3373.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3373.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1124	1121	1118	1118	1121	107
15°	1088	1084	1083	1083	1086	307
25°	1020	1016	1015	1015	1020	470
35°	920	916	913	913	918	576
45°	792	787	781	781	787	611
55°	639	632	623	624	629	570
65°	455	447	436	442	452	450
75°	253	246	242	216	204	266
85°	59	56	56	53	52	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1128.4	1123.5	1122.1	1120.7	1124.2
5°	1124.2	1120.7	1118.5	1117.8	1121.4
7.5°	1119.2	1115.0	1113.6	1112.2	1115.7
10°	1110.8	1106.6	1105.1	1104.4	1108.0
12.5°	1100.9	1096.0	1095.3	1094.6	1098.1
15°	1088.2	1084.0	1083.3	1082.6	1086.1
17.5°	1074.8	1070.6	1069.2	1068.5	1073.4
20°	1058.6	1054.4	1053.7	1053.0	1057.2
22.5°	1040.3	1036.1	1034.7	1035.4	1039.6
25°	1019.9	1015.6	1014.9	1014.9	1019.9
27.5°	997.3	993.1	993.1	993.1	998.7
30°	973.3	969.8	967.7	968.4	973.3
32.5°	948.7	943.0	941.6	942.3	947.3
35°	919.8	915.6	913.4	913.4	918.4
37.5°	890.2	885.9	883.1	883.1	888.1
40°	860.6	854.2	851.4	850.0	856.3
42.5°	827.4	822.5	816.2	816.2	821.8
45°	792.2	786.6	780.9	780.9	786.6
47.5°	756.3	750.6	744.3	744.3	749.9
50°	718.2	712.6	705.5	705.5	711.9
52.5°	679.4	673.1	665.3	664.6	671.0
55°	638.6	631.5	623.1	624.5	629.4
57.5°	597.0	587.8	579.4	579.4	587.1
60°	549.8	542.0	532.8	534.2	544.1
62.5°	504.6	494.8	485.6	489.1	497.6
65°	455.3	446.9	436.3	441.9	452.5
67.5°	406.7	397.5	389.1	396.1	401.0
70°	355.2	346.8	340.4	340.4	339.7
72.5°	303.8	296.0	294.6	281.2	272.8
75°	253.0	246.0	241.8	215.7	204.4
77.5°	200.2	198.1	184.7	157.2	153.6
80°	149.4	150.8	126.9	127.6	130.4
82.5°	102.9	100.8	95.1	90.9	89.5
85°	59.2	55.7	55.7	52.9	51.5
87.5°	19.7	21.8	21.8	21.8	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)