

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: P238999

Luminaire Tested: **24ENA-LD2-30-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238999
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2737.4 lumens
Efficiency: N/A
Efficacy: 111.3 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

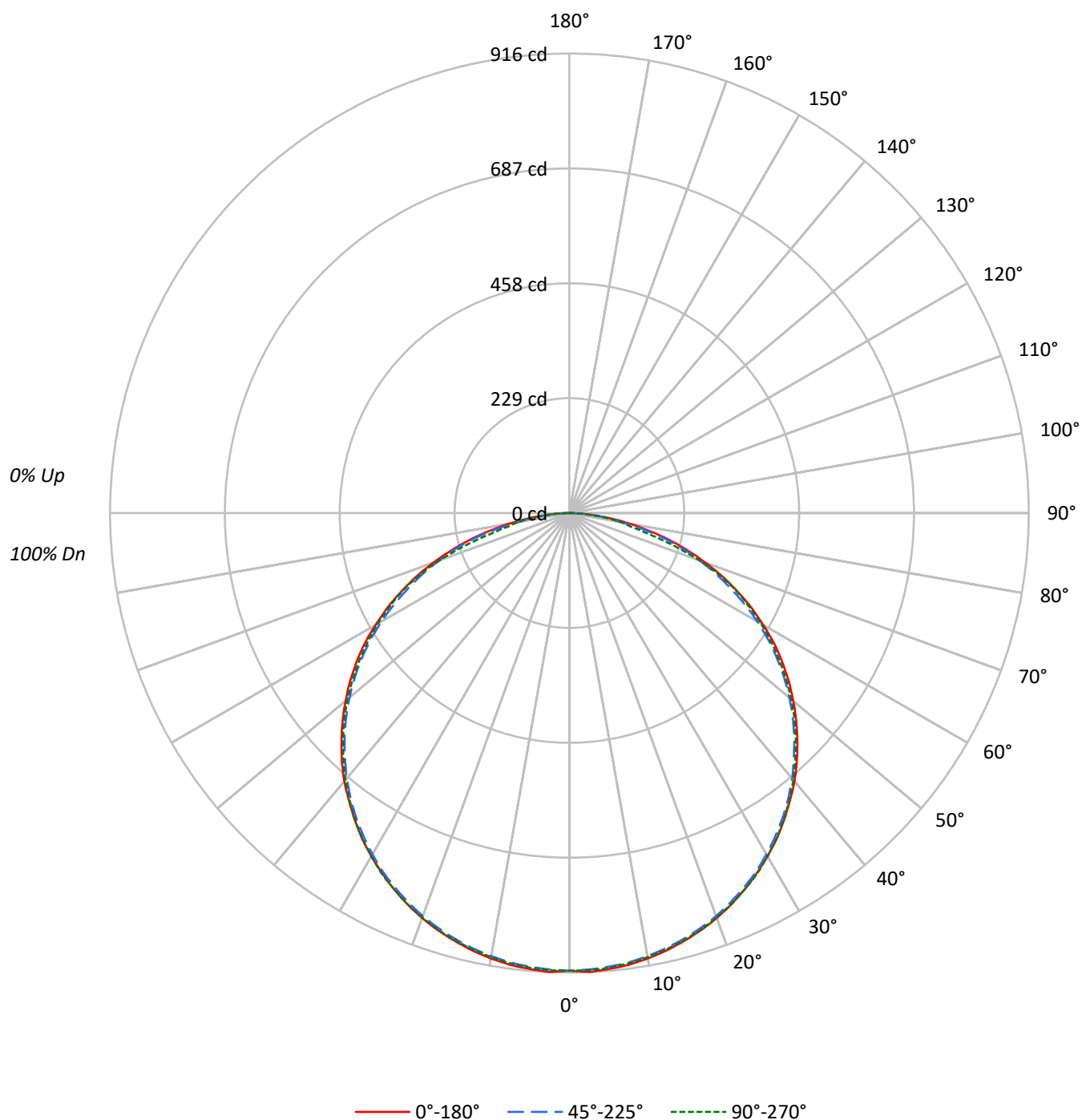
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1537	1537	1537
5°	1543	1535	1539
10°	1542	1534	1538
15°	1540	1533	1537
20°	1540	1533	1538
25°	1538	1531	1538
30°	1537	1528	1537
35°	1535	1525	1533
40°	1536	1520	1528
45°	1532	1510	1521
50°	1528	1501	1514
55°	1522	1485	1500
60°	1503	1457	1488
65°	1473	1411	1464
70°	1420	1361	1358
75°	1336	1277	1080
80°	1177	999	1027
85°	928	874	808



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.2
10°-20°	248.5	9.1
20°-30°	380.3	13.9
30°-40°	464.8	17.0
40°-50°	491.2	17.9
50°-60°	455.1	16.6
60°-70°	356.5	13.0
70°-80°	201.6	7.4
80°-90°	53.1	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°	715.2	26.1
0°-40°	1180.0	43.1
0°-60°	2126.2	77.7
0°-90°	2737.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2737.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	912	909	908	907	910	87
15°	883	880	879	878	881	249
25°	828	824	824	824	828	382
35°	746	743	741	741	745	467
45°	643	638	634	634	638	496
55°	518	512	506	507	511	463
65°	370	363	354	359	367	365
75°	205	200	196	175	166	216
85°	48	45	45	43	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	915.7	911.7	910.5	909.4	912.3
5°	912.3	909.4	907.7	907.1	910.0
7.5°	908.3	904.8	903.7	902.5	905.4
10°	901.4	898.0	896.8	896.3	899.1
12.5°	893.4	889.4	888.8	888.2	891.1
15°	883.1	879.7	879.1	878.5	881.4
17.5°	872.2	868.8	867.7	867.1	871.1
20°	859.1	855.6	855.1	854.5	857.9
22.5°	844.2	840.8	839.6	840.2	843.6
25°	827.6	824.2	823.6	823.6	827.6
27.5°	809.3	805.9	805.9	805.9	810.5
30°	789.9	787.0	785.3	785.9	789.9
32.5°	769.8	765.3	764.1	764.7	768.7
35°	746.4	743.0	741.3	741.3	745.3
37.5°	722.4	718.9	716.7	716.7	720.7
40°	698.4	693.2	690.9	689.8	694.9
42.5°	671.5	667.5	662.3	662.3	666.9
45°	642.9	638.3	633.7	633.7	638.3
47.5°	613.7	609.1	604.0	604.0	608.6
50°	582.8	578.2	572.5	572.5	577.7
52.5°	551.4	546.2	539.9	539.4	544.5
55°	518.2	512.5	505.6	506.8	510.8
57.5°	484.4	477.0	470.1	470.1	476.4
60°	446.1	439.8	432.4	433.5	441.5
62.5°	409.5	401.5	394.1	396.9	403.8
65°	369.5	362.6	354.0	358.6	367.2
67.5°	330.0	322.6	315.7	321.4	325.4
70°	288.3	281.4	276.3	276.3	275.7
72.5°	246.5	240.2	239.1	228.2	221.3
75°	205.3	199.6	196.2	175.0	165.9
77.5°	162.4	160.7	149.9	127.5	124.7
80°	121.3	122.4	103.0	103.5	105.8
82.5°	83.5	81.8	77.2	73.8	72.6
85°	48.0	45.2	45.2	42.9	41.8
87.5°	16.0	17.7	17.7	17.7	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)