

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: P238958

Luminaire Tested: **24EN-LD2-30-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238958
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-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683.6 lumens
Efficiency: N/A
Efficacy: 109.1 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

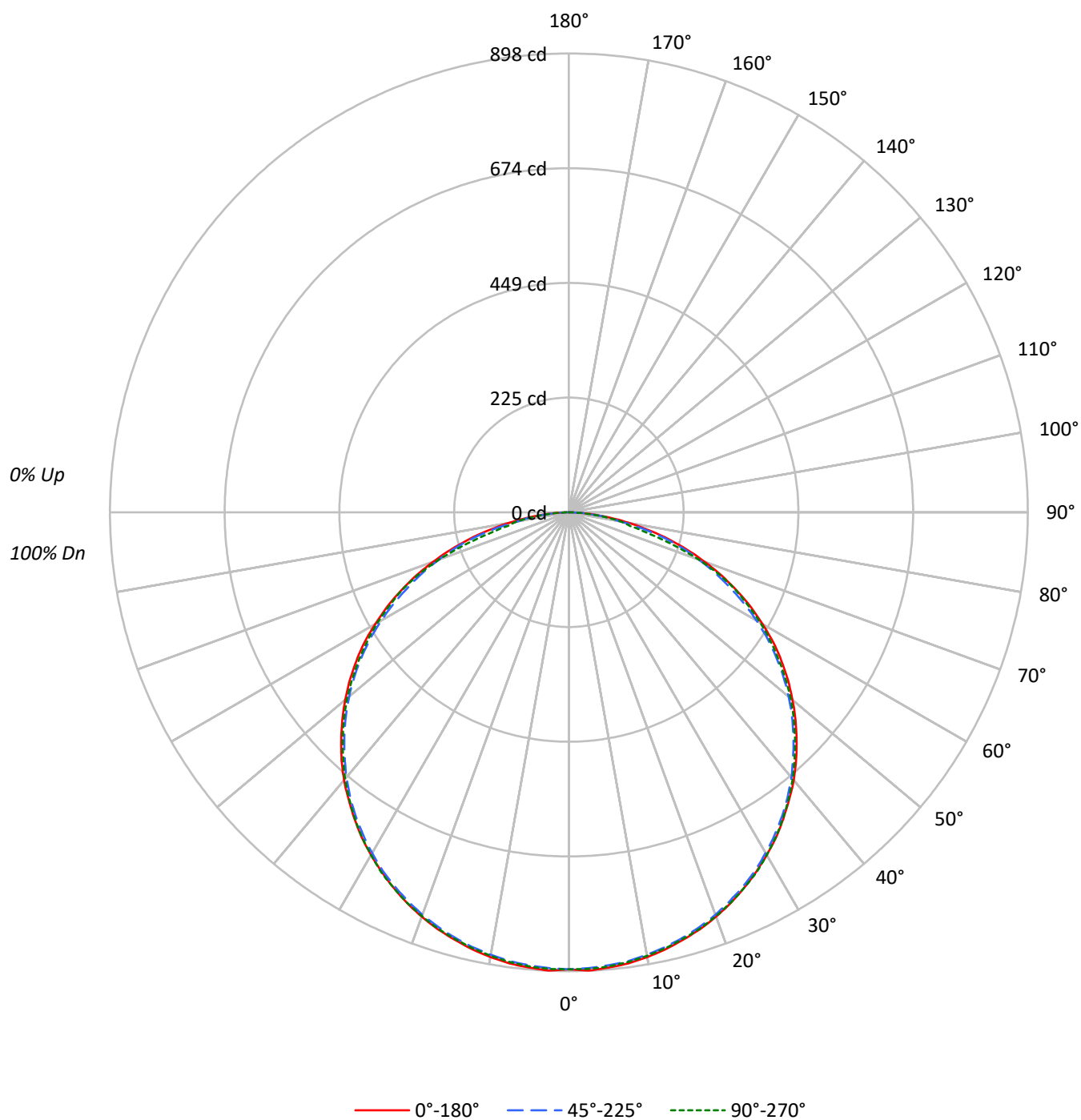
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	1370	1370	1370
5°	1375	1368	1372
10°	1374	1367	1371
15°	1373	1367	1370
20°	1373	1366	1371
25°	1371	1364	1371
30°	1369	1361	1369
35°	1368	1359	1366
40°	1369	1354	1362
45°	1365	1346	1355
50°	1362	1337	1349
55°	1357	1324	1337
60°	1340	1299	1326
65°	1313	1258	1305
70°	1266	1213	1210
75°	1191	1138	962
80°	1049	890	915
85°	828	779	719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.2
10°-20°	243.6	9.1
20°-30°	372.8	13.9
30°-40°	455.7	17.0
40°-50°	481.5	17.9
50°-60°	446.1	16.6
60°-70°	349.5	13.0
70°-80°	197.6	7.4
80°-90°	52.0	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°	701.1	26.1
0°-40°	1156.8	43.1
0°-60°	2084.4	77.7
0°-90°	2683.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	894	892	890	889	892	85
15°	866	862	862	861	864	245
25°	811	808	807	807	811	374
35°	732	728	727	727	731	458
45°	630	626	621	621	626	486
55°	508	502	496	497	501	454
65°	362	356	347	352	360	358
75°	201	196	192	172	163	212
85°	47	44	44	42	41	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.3	894.3	894.3	894.3	894.3
2.5°	897.7	893.8	892.6	891.5	894.3
5°	894.3	891.5	889.8	889.3	892.1
7.5°	890.4	887.0	885.9	884.8	887.6
10°	883.7	880.3	879.2	878.6	881.4
12.5°	875.8	871.9	871.3	870.8	873.6
15°	865.7	862.4	861.8	861.2	864.0
17.5°	855.1	851.7	850.6	850.0	853.9
20°	842.2	838.8	838.2	837.7	841.0
22.5°	827.6	824.2	823.1	823.7	827.0
25°	811.3	808.0	807.4	807.4	811.3
27.5°	793.4	790.0	790.0	790.0	794.5
30°	774.3	771.5	769.8	770.4	774.3
32.5°	754.7	750.2	749.1	749.7	753.6
35°	731.7	728.3	726.7	726.7	730.6
37.5°	708.2	704.8	702.6	702.6	706.5
40°	684.6	679.6	677.3	676.2	681.3
42.5°	658.3	654.3	649.3	649.3	653.8
45°	630.2	625.7	621.3	621.3	625.7
47.5°	601.6	597.1	592.1	592.1	596.6
50°	571.4	566.9	561.3	561.3	566.3
52.5°	540.5	535.5	529.3	528.7	533.8
55°	508.0	502.4	495.7	496.8	500.7
57.5°	474.9	467.6	460.9	460.9	467.1
60°	437.3	431.2	423.9	425.0	432.9
62.5°	401.5	393.6	386.3	389.1	395.9
65°	362.2	355.5	347.1	351.6	360.0
67.5°	323.5	316.2	309.5	315.1	319.0
70°	282.6	275.9	270.8	270.8	270.3
72.5°	241.7	235.5	234.4	223.7	217.0
75°	201.3	195.7	192.3	171.6	162.6
77.5°	159.2	157.6	146.9	125.0	122.2
80°	118.9	120.0	100.9	101.5	103.7
82.5°	81.9	80.2	75.7	72.3	71.2
85°	47.1	44.3	44.3	42.1	40.9
87.5°	15.7	17.4	17.4	17.4	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)