

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: P238960

Luminaire Tested: **24EN-LD2-30-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238960
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2975.4 lumens
Efficiency: N/A
Efficacy: 121.0 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

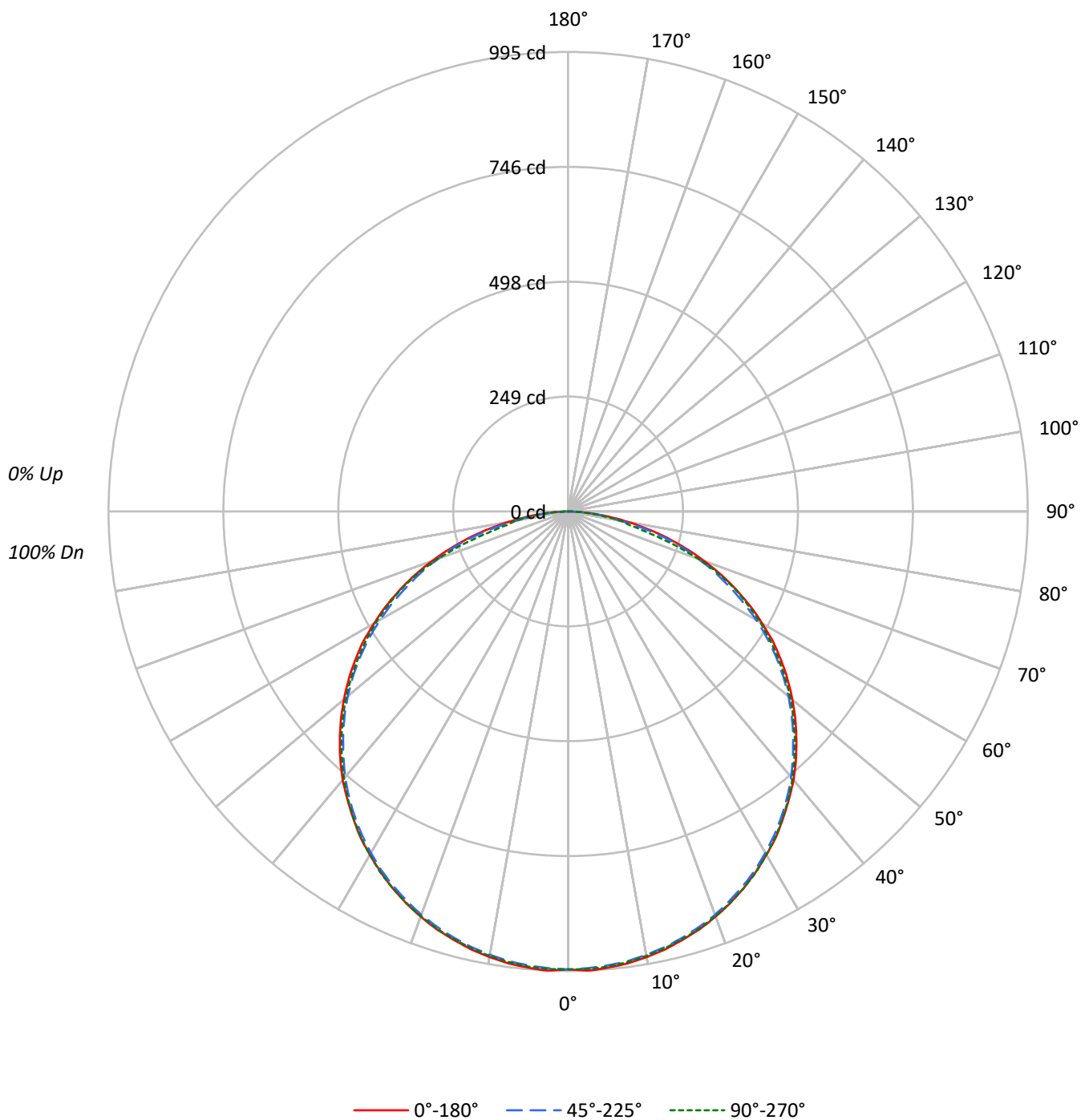
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	1519	1519	1519
5°	1525	1517	1521
10°	1524	1516	1520
15°	1522	1515	1519
20°	1522	1515	1520
25°	1520	1513	1520
30°	1518	1510	1518
35°	1517	1506	1515
40°	1518	1502	1510
45°	1514	1492	1503
50°	1509	1483	1496
55°	1504	1468	1483
60°	1485	1440	1470
65°	1455	1395	1446
70°	1403	1345	1342
75°	1321	1262	1067
80°	1163	987	1014
85°	917	863	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.2
10°-20°	270.1	9.1
20°-30°	413.3	13.9
30°-40°	505.2	17.0
40°-50°	533.9	17.9
50°-60°	494.6	16.6
60°-70°	387.5	13.0
70°-80°	219.1	7.4
80°-90°	57.7	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°	777.4	26.1
0°-40°	1282.6	43.1
0°-60°	2311.1	77.7
0°-90°	2975.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2975.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	992	988	987	986	989	94
15°	960	956	956	955	958	271
25°	900	896	895	895	900	415
35°	811	808	806	806	810	508
45°	699	694	689	689	694	539
55°	563	557	550	551	555	503
65°	402	394	385	390	399	397
75°	223	217	213	190	180	235
85°	52	49	49	47	45	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.6	991.6	991.6	991.6	991.6
2.5°	995.3	991.0	989.7	988.5	991.6
5°	991.6	988.5	986.6	986.0	989.1
7.5°	987.2	983.5	982.3	981.0	984.1
10°	979.8	976.0	974.8	974.2	977.3
12.5°	971.1	966.7	966.1	965.5	968.6
15°	959.9	956.1	955.5	954.9	958.0
17.5°	948.1	944.3	943.1	942.5	946.8
20°	933.8	930.0	929.4	928.8	932.5
22.5°	917.6	913.9	912.6	913.2	917.0
25°	899.6	895.8	895.2	895.2	899.6
27.5°	879.7	875.9	875.9	875.9	880.9
30°	858.5	855.4	853.6	854.2	858.5
32.5°	836.8	831.8	830.6	831.2	835.5
35°	811.3	807.6	805.7	805.7	810.0
37.5°	785.2	781.5	779.0	779.0	783.3
40°	759.1	753.5	751.0	749.7	755.3
42.5°	729.9	725.5	719.9	719.9	724.9
45°	698.8	693.8	688.8	688.8	693.8
47.5°	667.1	662.1	656.5	656.5	661.5
50°	633.5	628.5	622.3	622.3	627.9
52.5°	599.3	593.7	586.9	586.2	591.8
55°	563.2	557.0	549.6	550.8	555.2
57.5°	526.6	518.5	511.0	511.0	517.9
60°	484.9	478.1	470.0	471.2	479.9
62.5°	445.1	436.4	428.3	431.4	438.9
65°	401.6	394.1	384.8	389.8	399.1
67.5°	358.7	350.6	343.2	349.4	353.7
70°	313.3	305.9	300.3	300.3	299.6
72.5°	267.9	261.1	259.9	248.1	240.6
75°	223.2	217.0	213.2	190.2	180.3
77.5°	176.6	174.7	162.9	138.6	135.5
80°	131.8	133.0	111.9	112.5	115.0
82.5°	90.8	88.9	83.9	80.2	79.0
85°	52.2	49.1	49.1	46.6	45.4
87.5°	17.4	19.3	19.3	19.3	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)