

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: P238957

Luminaire Tested: **24EN-LD2-30-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238957
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-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2611.9 lumens
Efficiency: N/A
Efficacy: 106.2 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

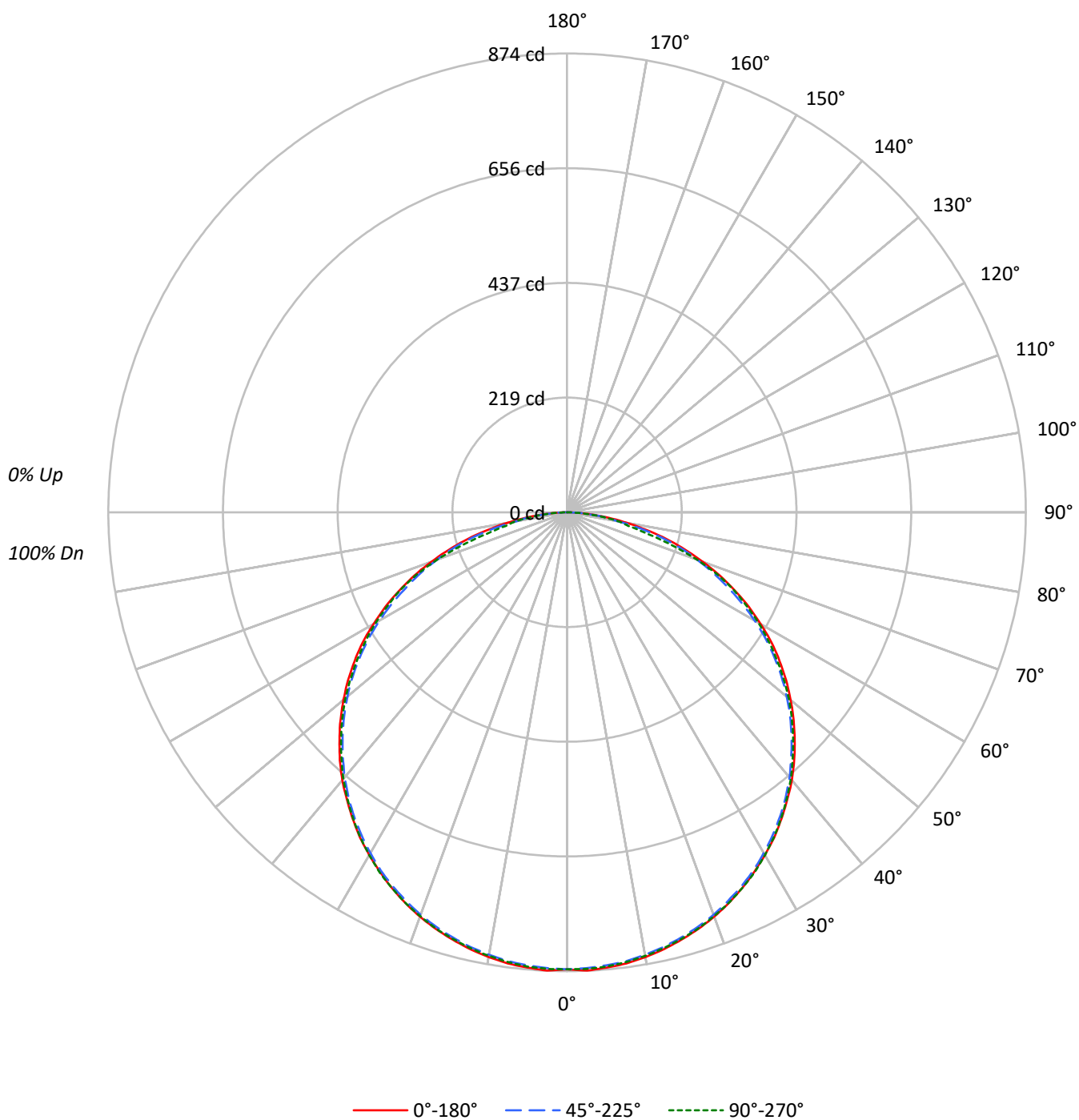
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238957

CATALOG NUMBER: 24EN-LD2-30-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238957

CATALOG NUMBER: 24EN-LD2-30-UNV-L930-CD1-U

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°	1333	1333	1333
5°	1338	1332	1335
10°	1338	1331	1334
15°	1336	1330	1334
20°	1336	1330	1334
25°	1335	1328	1335
30°	1333	1325	1333
35°	1332	1322	1330
40°	1332	1318	1326
45°	1329	1310	1319
50°	1325	1302	1313
55°	1320	1288	1301
60°	1304	1264	1291
65°	1278	1224	1270
70°	1231	1180	1178
75°	1159	1108	937
80°	1021	866	891
85°	805	757	699



TEST NUMBER: P238957

CATALOG NUMBER: 24EN-LD2-30-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.2
10°-20°	237.1	9.1
20°-30°	362.8	13.9
30°-40°	443.5	17.0
40°-50°	468.7	17.9
50°-60°	434.2	16.6
60°-70°	340.2	13.0
70°-80°	192.3	7.4
80°-90°	50.6	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°	682.4	26.1
0°-40°	1125.9	43.1
0°-60°	2028.8	77.7
0°-90°	2611.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2611.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	870	868	866	866	868	83
15°	843	839	839	838	841	238
25°	790	786	786	786	790	364
35°	712	709	707	707	711	446
45°	613	609	605	605	609	473
55°	494	489	482	484	487	442
65°	352	346	338	342	350	349
75°	196	190	187	167	158	206
85°	46	43	43	41	40	54
90°	0	0	0	0	0	



TEST NUMBER: P238957

CATALOG NUMBER: 24EN-LD2-30-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.4	870.4	870.4	870.4	870.4
2.5°	873.7	869.9	868.8	867.7	870.4
5°	870.4	867.7	866.1	865.5	868.3
7.5°	866.6	863.3	862.3	861.2	863.9
10°	860.1	856.8	855.7	855.2	857.9
12.5°	852.4	848.6	848.1	847.5	850.3
15°	842.6	839.3	838.8	838.2	841.0
17.5°	832.2	829.0	827.9	827.3	831.2
20°	819.7	816.4	815.9	815.3	818.6
22.5°	805.5	802.2	801.1	801.7	805.0
25°	789.7	786.4	785.9	785.9	789.7
27.5°	772.2	768.9	768.9	768.9	773.3
30°	753.7	750.9	749.3	749.8	753.7
32.5°	734.6	730.2	729.1	729.6	733.5
35°	712.2	708.9	707.3	707.3	711.1
37.5°	689.3	686.0	683.8	683.8	687.6
40°	666.3	661.4	659.2	658.2	663.1
42.5°	640.7	636.9	632.0	632.0	636.3
45°	613.4	609.0	604.7	604.7	609.0
47.5°	585.6	581.2	576.3	576.3	580.7
50°	556.1	551.7	546.3	546.3	551.2
52.5°	526.1	521.2	515.2	514.6	519.5
55°	494.4	489.0	482.4	483.5	487.3
57.5°	462.2	455.1	448.6	448.6	454.6
60°	425.7	419.7	412.6	413.7	421.3
62.5°	390.7	383.1	376.0	378.7	385.3
65°	352.5	346.0	337.8	342.2	350.4
67.5°	314.9	307.8	301.2	306.7	310.5
70°	275.0	268.5	263.6	263.6	263.0
72.5°	235.2	229.2	228.1	217.7	211.2
75°	195.9	190.5	187.2	167.0	158.3
77.5°	155.0	153.4	143.0	121.7	119.0
80°	115.7	116.8	98.2	98.8	101.0
82.5°	79.7	78.0	73.7	70.4	69.3
85°	45.8	43.1	43.1	40.9	39.8
87.5°	15.3	16.9	16.9	16.9	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)