

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: P239000

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239000
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

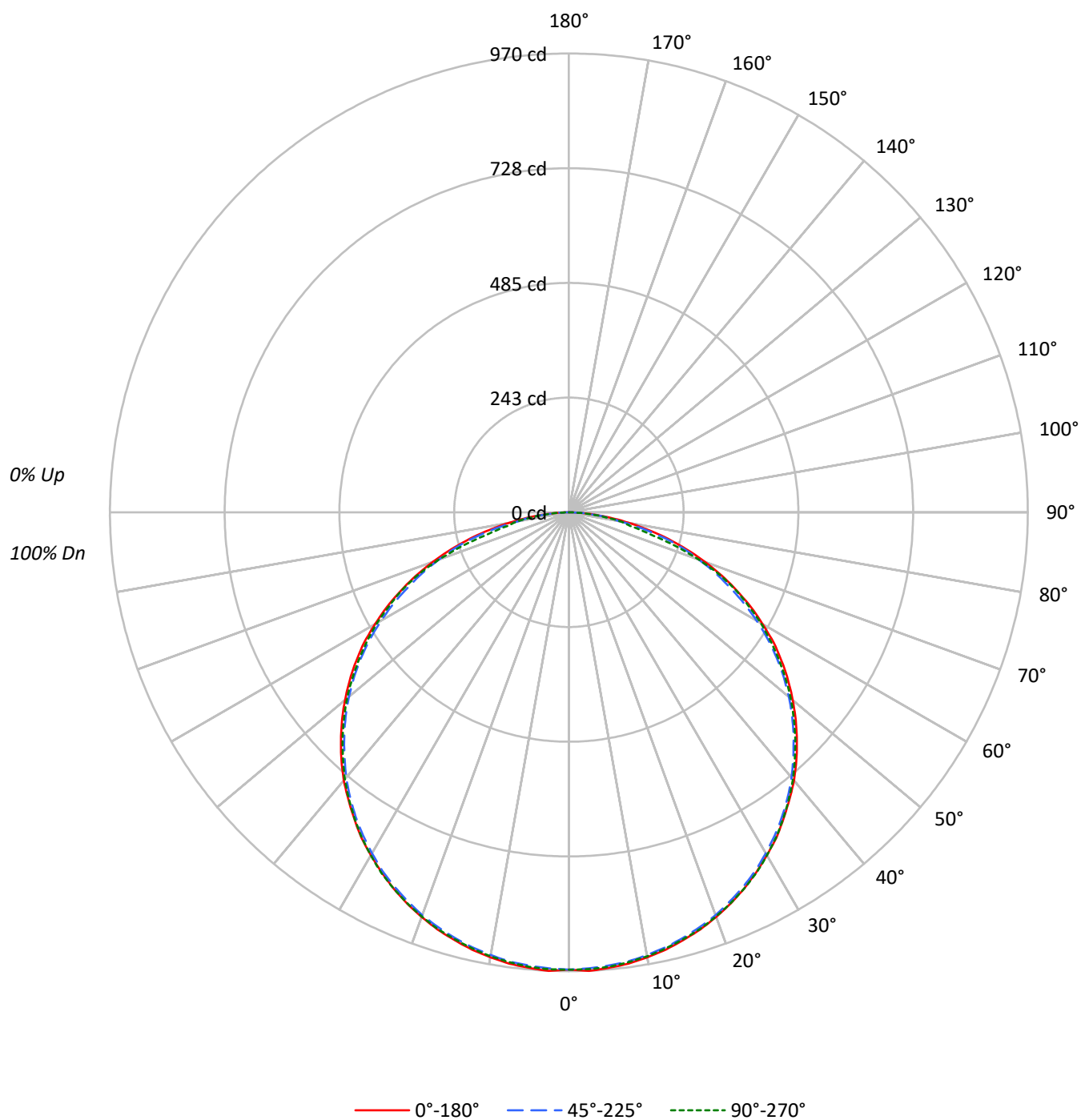
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P239000

CATALOG NUMBER: 24ENA-LD2-30-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P239000

CATALOG NUMBER: 24ENA-LD2-30-UNV-L950-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1629	1629	1629
5°	1635	1627	1631
10°	1634	1626	1630
15°	1632	1625	1629
20°	1632	1625	1630
25°	1630	1622	1630
30°	1629	1619	1629
35°	1627	1616	1624
40°	1628	1610	1620
45°	1623	1600	1612
50°	1619	1590	1605
55°	1613	1574	1590
60°	1593	1544	1577
65°	1561	1496	1551
70°	1505	1442	1439
75°	1416	1353	1144
80°	1247	1059	1088
85°	984	926	854



TEST NUMBER: P239000

CATALOG NUMBER: 24ENA-LD2-30-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	3.2
10°-20°	263.4	9.1
20°-30°	403.0	13.9
30°-40°	492.6	17.0
40°-50°	520.5	17.9
50°-60°	482.3	16.6
60°-70°	377.8	13.0
70°-80°	213.6	7.4
80°-90°	56.3	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°	757.9	26.1
0°-40°	1250.5	43.1
0°-60°	2253.3	77.7
0°-90°	2901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	967	964	962	961	964	92
15°	936	932	932	931	934	264
25°	877	873	873	873	877	404
35°	791	787	786	786	790	495
45°	681	676	672	672	676	526
55°	549	543	536	537	541	490
65°	392	384	375	380	389	387
75°	218	212	208	186	176	229
85°	51	48	48	46	44	60
90°	0	0	0	0	0	



TEST NUMBER: P239000

CATALOG NUMBER: 24ENA-LD2-30-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.8	966.8	966.8	966.8	966.8
2.5°	970.4	966.2	965.0	963.8	966.8
5°	966.8	963.8	961.9	961.3	964.4
7.5°	962.5	958.9	957.7	956.5	959.5
10°	955.3	951.6	950.4	949.8	952.8
12.5°	946.8	942.5	941.9	941.3	944.4
15°	935.9	932.2	931.6	931.0	934.1
17.5°	924.4	920.7	919.5	918.9	923.1
20°	910.4	906.8	906.2	905.6	909.2
22.5°	894.7	891.0	889.8	890.4	894.1
25°	877.1	873.4	872.8	872.8	877.1
27.5°	857.7	854.0	854.0	854.0	858.9
30°	837.1	834.0	832.2	832.8	837.1
32.5°	815.9	811.0	809.8	810.4	814.6
35°	791.0	787.4	785.6	785.6	789.8
37.5°	765.6	761.9	759.5	759.5	763.7
40°	740.1	734.6	732.2	731.0	736.5
42.5°	711.6	707.4	701.9	701.9	706.8
45°	681.3	676.4	671.6	671.6	676.4
47.5°	650.4	645.5	640.1	640.1	644.9
50°	617.7	612.8	606.7	606.7	612.2
52.5°	584.3	578.9	572.2	571.6	577.0
55°	549.2	543.1	535.8	537.0	541.3
57.5°	513.4	505.5	498.2	498.2	504.9
60°	472.8	466.1	458.2	459.5	467.9
62.5°	434.0	425.5	417.6	420.7	427.9
65°	391.6	384.3	375.2	380.0	389.1
67.5°	349.7	341.9	334.6	340.6	344.9
70°	305.5	298.2	292.8	292.8	292.2
72.5°	261.2	254.6	253.4	241.8	234.6
75°	217.6	211.5	207.9	185.5	175.8
77.5°	172.1	170.3	158.8	135.2	132.1
80°	128.5	129.7	109.1	109.7	112.1
82.5°	88.5	86.7	81.8	78.2	77.0
85°	50.9	47.9	47.9	45.5	44.2
87.5°	17.0	18.8	18.8	18.8	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)