

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: P238997

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238997
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-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2546.6 lumens
Efficiency: N/A
Efficacy: 103.5 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

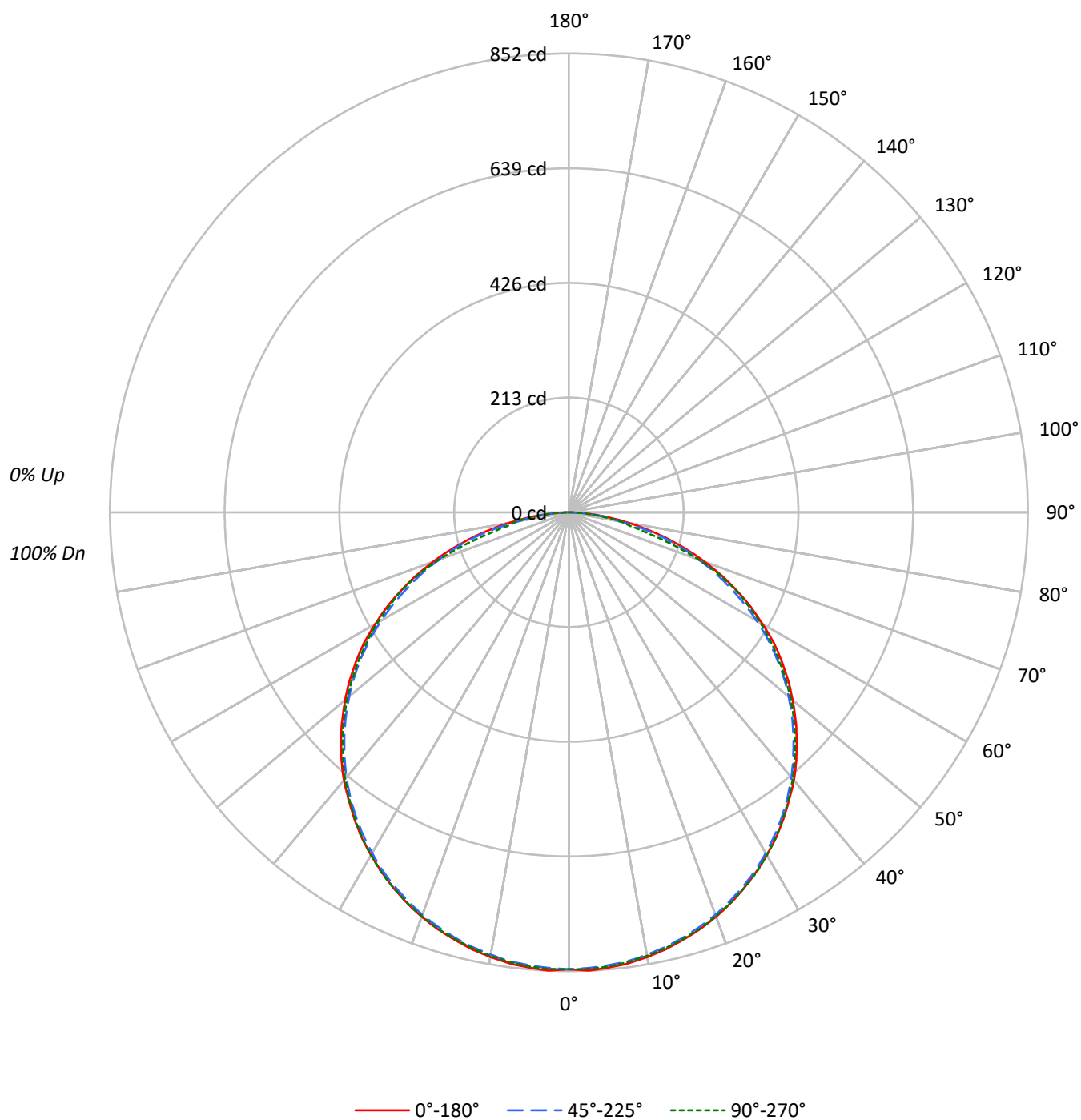
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1430	1430	1430
5°	1435	1428	1432
10°	1435	1427	1431
15°	1433	1426	1430
20°	1433	1426	1431
25°	1431	1424	1431
30°	1429	1421	1429
35°	1428	1418	1426
40°	1429	1414	1422
45°	1425	1405	1415
50°	1421	1396	1409
55°	1416	1382	1396
60°	1398	1356	1384
65°	1370	1313	1362
70°	1321	1266	1264
75°	1243	1188	1004
80°	1094	929	955
85°	864	812	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.2
10°-20°	231.2	9.1
20°-30°	353.8	13.9
30°-40°	432.4	17.0
40°-50°	456.9	17.9
50°-60°	423.4	16.6
60°-70°	331.7	13.0
70°-80°	187.5	7.4
80°-90°	49.4	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°	665.3	26.1
0°-40°	1097.7	43.1
0°-60°	1978.0	77.7
0°-90°	2546.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	849	849	849	849	849	
5°	849	846	844	844	847	81
15°	822	818	818	817	820	232
25°	770	767	766	766	770	355
35°	694	691	690	690	693	435
45°	598	594	590	590	594	462
55°	482	477	470	471	475	431
65°	344	337	329	334	342	340
75°	191	186	182	163	154	201
85°	45	42	42	40	39	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	848.7	848.7	848.7	848.7	848.7
2.5°	851.9	848.2	847.1	846.0	848.7
5°	848.7	846.0	844.4	843.9	846.6
7.5°	845.0	841.8	840.7	839.6	842.3
10°	838.6	835.4	834.3	833.8	836.4
12.5°	831.1	827.4	826.9	826.3	829.0
15°	821.5	818.4	817.8	817.3	820.0
17.5°	811.4	808.2	807.2	806.6	810.4
20°	799.2	796.0	795.5	794.9	798.1
22.5°	785.4	782.2	781.1	781.6	784.8
25°	769.9	766.7	766.2	766.2	769.9
27.5°	752.9	749.7	749.7	749.7	754.0
30°	734.8	732.2	730.6	731.1	734.8
32.5°	716.2	711.9	710.9	711.4	715.1
35°	694.4	691.2	689.6	689.6	693.3
37.5°	672.0	668.8	666.7	666.7	670.4
40°	649.7	644.9	642.8	641.7	646.5
42.5°	624.7	620.9	616.2	616.2	620.4
45°	598.1	593.8	589.6	589.6	593.8
47.5°	570.9	566.7	561.9	561.9	566.1
50°	542.2	537.9	532.6	532.6	537.4
52.5°	512.9	508.1	502.3	501.8	506.5
55°	482.1	476.8	470.4	471.4	475.2
57.5°	450.7	443.8	437.4	437.4	443.2
60°	415.0	409.2	402.3	403.3	410.8
62.5°	381.0	373.5	366.6	369.3	375.7
65°	343.7	337.3	329.4	333.6	341.6
67.5°	307.0	300.1	293.7	299.0	302.8
70°	268.2	261.8	257.0	257.0	256.5
72.5°	229.3	223.5	222.4	212.3	205.9
75°	191.0	185.7	182.5	162.8	154.3
77.5°	151.1	149.5	139.4	118.7	116.0
80°	112.8	113.9	95.8	96.3	98.4
82.5°	77.7	76.1	71.8	68.6	67.6
85°	44.7	42.0	42.0	39.9	38.8
87.5°	14.9	16.5	16.5	16.5	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)