

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: P238730

Luminaire Tested: **14ENA-LD2-33-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-395-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ENA-LD2-33-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2465.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 0.67' x L: 3.83' x H: 0')
CIE Type: Direct

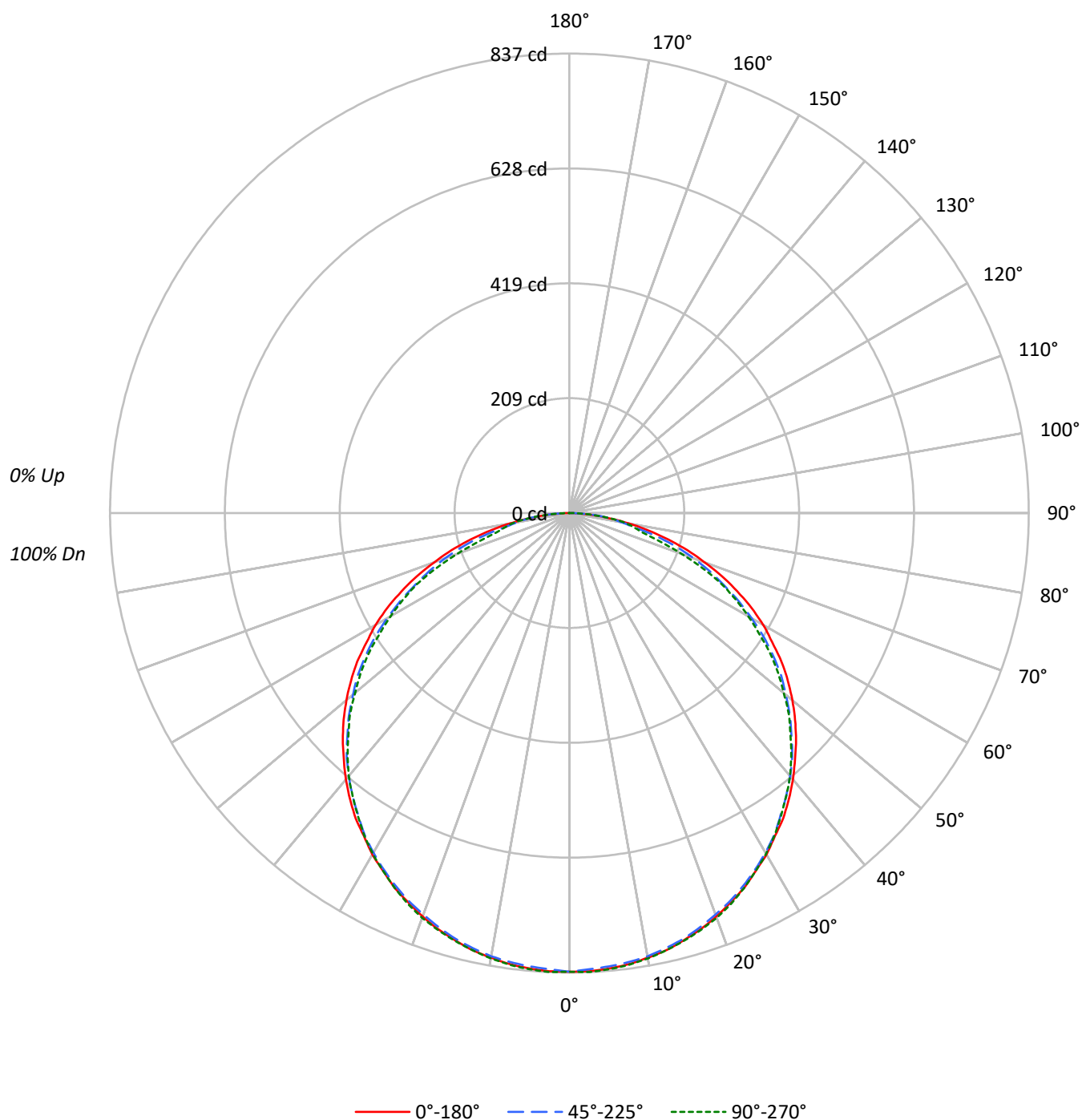
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	99	95	106	101	97	94		97	94	91			93	90	88			90
2	99	90	83	77	96	88	82	76		85	79	75			81	77	73			78
3	90	79	71	64	87	77	70	63		74	68	62			72	66	61			69
4	82	70	61	54	80	68	60	54		66	59	53			64	57	52			61
5	75	62	53	46	73	61	53	46		59	51	46			57	50	45			55
6	69	56	47	40	68	55	46	40		53	46	40			51	45	39			50
7	64	51	42	36	63	50	41	35		48	41	35			47	40	35			45
8	60	46	38	32	58	45	37	32		44	37	31			43	36	31			42
9	56	42	34	28	54	42	34	28		41	33	28			40	33	28			38
10	52	39	31	26	51	39	31	26		38	30	26			37	30	25			36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3519	3519	3519
5°	3521	3505	3527
10°	3517	3506	3523
15°	3512	3501	3518
20°	3505	3488	3517
25°	3501	3483	3501
30°	3493	3474	3486
35°	3491	3451	3458
40°	3483	3440	3440
45°	3478	3408	3392
50°	3476	3373	3339
55°	3465	3330	3282
60°	3436	3228	3172
65°	3364	3092	3053
70°	3227	2969	2680
75°	3033	2672	2247
80°	2688	2307	2530
85°	2078	2392	2267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.1	3.2
10°-20°	227.2	9.2
20°-30°	346.3	14.0
30°-40°	421.7	17.1
40°-50°	443.4	18.0
50°-60°	407.0	16.5
60°-70°	312.7	12.7
70°-80°	174.5	7.1
80°-90°	53.0	2.1
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°	652.6	26.5
0°-40°	1074.3	43.6
0°-60°	1924.8	78.1
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	833	833	829	833	834	79
15°	805	805	803	805	807	227
25°	753	751	749	752	753	347
35°	679	676	671	672	672	424
45°	584	580	572	570	570	450
55°	472	468	454	446	447	421
65°	338	328	310	306	306	333
75°	186	177	164	142	138	197
85°	43	44	50	48	47	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.4	835.4	835.4	835.4	835.4
2.5°	835.4	835.4	831.5	835.4	836.7
5°	832.8	832.8	828.9	832.8	834.1
7.5°	828.9	828.9	825.0	827.6	830.2
10°	822.4	822.4	819.8	822.4	823.7
12.5°	815.8	814.5	811.9	814.5	815.8
15°	805.4	805.4	802.8	805.4	806.7
17.5°	795.0	793.7	791.1	795.0	796.3
20°	782.0	780.7	778.1	782.0	784.6
22.5°	767.6	766.3	765.0	768.9	770.2
25°	753.3	750.7	749.4	752.0	753.3
27.5°	735.0	733.7	732.4	733.7	735.0
30°	718.1	715.5	714.2	714.2	716.8
32.5°	697.2	695.9	694.6	695.9	695.9
35°	679.0	676.4	671.2	672.5	672.5
37.5°	656.8	652.9	649.0	649.0	649.0
40°	633.4	630.8	625.6	624.3	625.6
42.5°	608.6	606.0	600.8	596.9	598.2
45°	583.9	580.0	572.1	569.5	569.5
47.5°	557.8	553.9	544.8	540.9	542.2
50°	530.4	525.2	514.8	509.6	509.6
52.5°	501.8	496.5	486.1	479.6	479.6
55°	471.8	467.9	453.5	445.7	447.0
57.5°	437.9	434.0	419.7	410.5	410.5
60°	407.9	400.1	383.2	376.6	376.6
62.5°	374.0	364.9	348.0	340.2	341.5
65°	337.5	328.4	310.2	306.3	306.3
67.5°	301.1	293.2	276.3	269.8	263.3
70°	262.0	254.1	241.1	225.5	217.6
72.5°	225.5	216.3	204.6	181.2	173.3
75°	186.4	177.2	164.2	142.1	138.1
77.5°	148.6	140.8	122.5	117.3	119.9
80°	110.8	108.2	95.1	100.4	104.3
82.5°	74.3	73.0	75.6	78.2	78.2
85°	43.0	44.3	49.5	48.2	46.9
87.5°	18.2	22.2	20.9	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)