

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: P238701

Luminaire Tested: **14EN-LD2-38-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238701
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: 14EN-LD2-38-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3215.9 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 1' x L: 3.83' x H: 0')
CIE Type: Direct

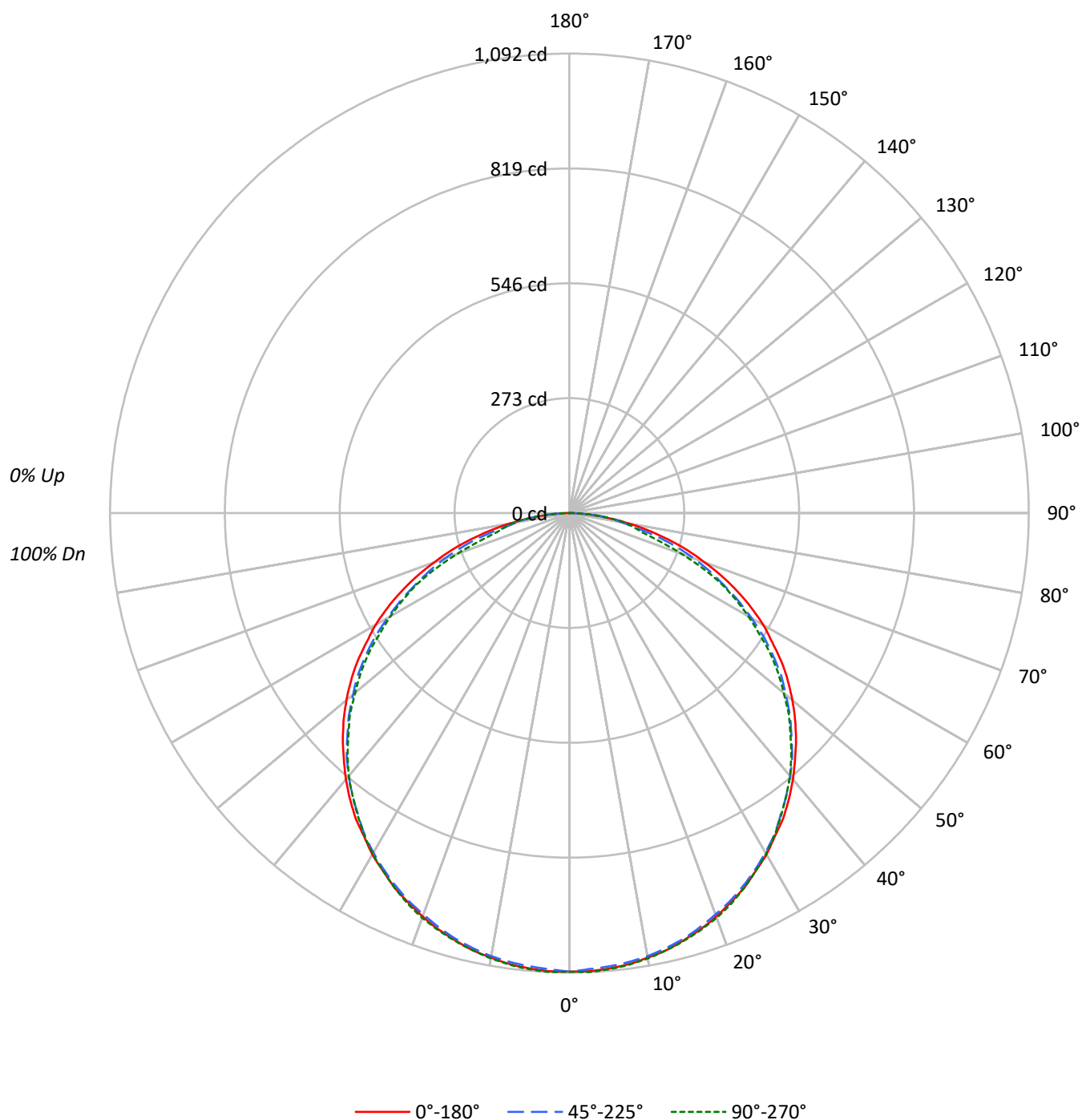
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		40	33	28		26
10	52	39	31	26	51	39	31	26	38	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3060	3060	3060
5°	3063	3048	3067
10°	3059	3049	3064
15°	3055	3045	3060
20°	3049	3033	3059
25°	3045	3029	3045
30°	3038	3021	3032
35°	3036	3001	3007
40°	3029	2991	2991
45°	3025	2964	2951
50°	3023	2934	2904
55°	3013	2897	2855
60°	2989	2807	2760
65°	2926	2689	2655
70°	2806	2583	2331
75°	2637	2324	1955
80°	2337	2007	2199
85°	1807	2081	1972



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	3.2
10°-20°	296.4	9.2
20°-30°	451.8	14.0
30°-40°	550.2	17.1
40°-50°	578.5	18.0
50°-60°	531.0	16.5
60°-70°	408.0	12.7
70°-80°	227.7	7.1
80°-90°	69.1	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°	851.4	26.5
0°-40°	1401.6	43.6
0°-60°	2511.1	78.1
0°-90°	3215.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3215.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1086	1086	1081	1086	1088	103
15°	1051	1051	1047	1051	1052	297
25°	983	979	978	981	983	453
35°	886	882	876	877	877	554
45°	762	757	746	743	743	588
55°	616	610	592	582	583	549
65°	440	428	405	400	400	435
75°	243	231	214	185	180	257
85°	56	58	65	63	61	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.9	1089.9	1089.9	1089.9	1089.9
2.5°	1089.9	1089.9	1084.8	1089.9	1091.6
5°	1086.5	1086.5	1081.4	1086.5	1088.2
7.5°	1081.4	1081.4	1076.3	1079.7	1083.1
10°	1072.9	1072.9	1069.5	1072.9	1074.6
12.5°	1064.4	1062.7	1059.3	1062.7	1064.4
15°	1050.8	1050.8	1047.4	1050.8	1052.5
17.5°	1037.2	1035.5	1032.1	1037.2	1038.9
20°	1020.2	1018.5	1015.1	1020.2	1023.6
22.5°	1001.5	999.8	998.1	1003.2	1004.9
25°	982.8	979.4	977.7	981.1	982.8
27.5°	959.0	957.3	955.6	957.3	959.0
30°	936.9	933.5	931.8	931.8	935.2
32.5°	909.6	907.9	906.2	907.9	907.9
35°	885.8	882.4	875.6	877.3	877.3
37.5°	856.9	851.8	846.7	846.7	846.7
40°	826.3	822.9	816.1	814.4	816.1
42.5°	794.0	790.6	783.8	778.7	780.4
45°	761.7	756.6	746.4	743.0	743.0
47.5°	727.7	722.6	710.7	705.6	707.3
50°	692.0	685.2	671.6	664.8	664.8
52.5°	654.6	647.8	634.2	625.7	625.7
55°	615.5	610.4	591.7	581.5	583.2
57.5°	571.3	566.2	547.5	535.6	535.6
60°	532.2	522.0	499.9	491.4	491.4
62.5°	488.0	476.1	454.0	443.8	445.5
65°	440.4	428.5	404.7	399.6	399.6
67.5°	392.8	382.6	360.5	352.0	343.5
70°	341.8	331.6	314.6	294.1	283.9
72.5°	294.1	282.2	266.9	236.3	226.1
75°	243.1	231.2	214.2	185.3	180.2
77.5°	193.8	183.6	159.8	153.0	156.4
80°	144.5	141.1	124.1	130.9	136.0
82.5°	96.9	95.2	98.6	102.0	102.0
85°	56.1	57.8	64.6	62.9	61.2
87.5°	23.8	28.9	27.2	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)