

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: P238700

Luminaire Tested: **14EN-LD2-33-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238700
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-LD2-33-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3177.9 lumens
Efficiency: N/A
Efficacy: 113.1 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

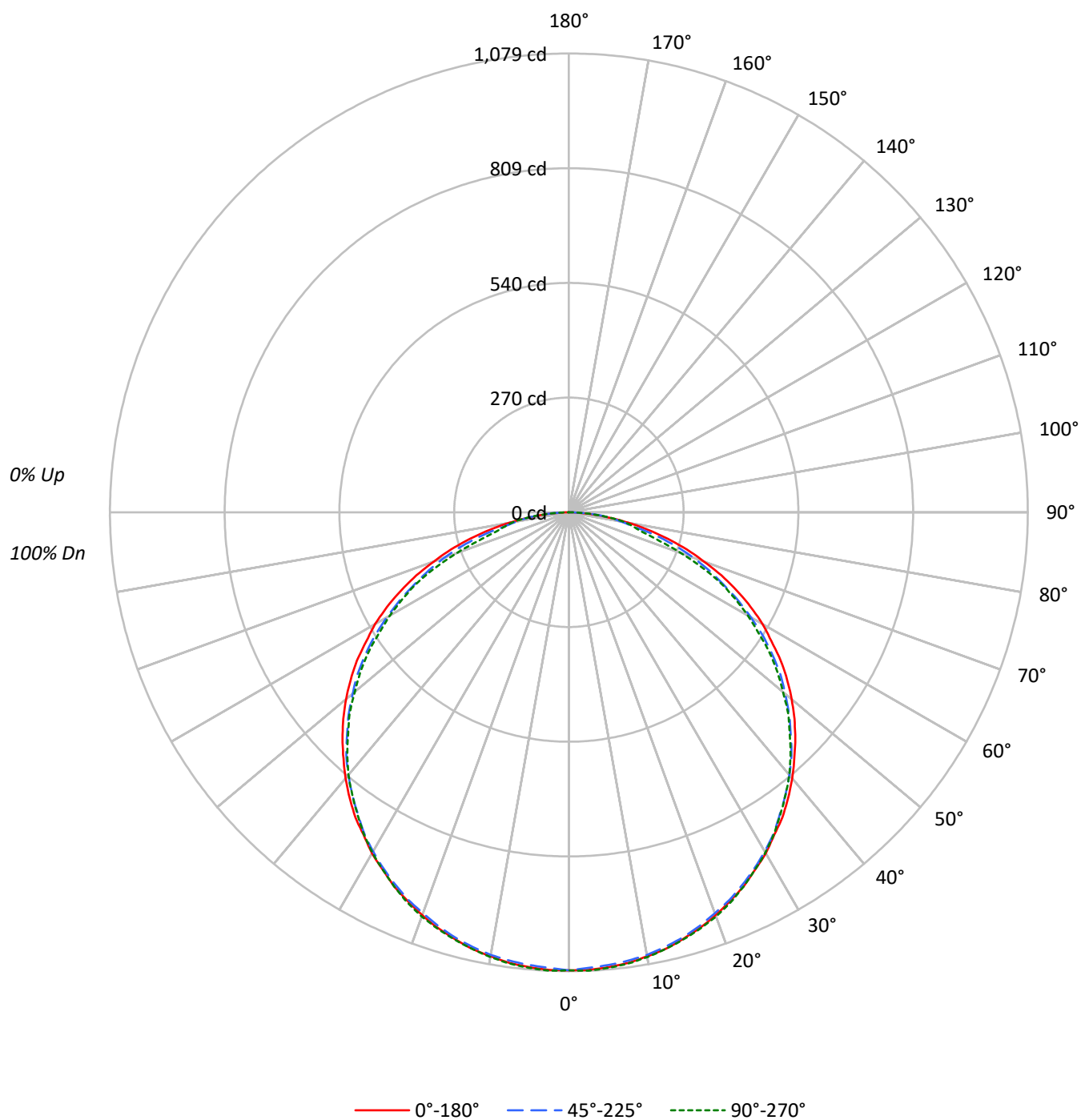
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3024	3024	3024
5°	3026	3012	3031
10°	3023	3013	3028
15°	3018	3009	3023
20°	3012	2997	3023
25°	3009	2993	3009
30°	3002	2985	2996
35°	3001	2966	2972
40°	2993	2956	2956
45°	2989	2929	2916
50°	2987	2899	2870
55°	2977	2862	2821
60°	2953	2774	2727
65°	2892	2657	2623
70°	2773	2552	2304
75°	2607	2297	1932
80°	2309	1984	2173
85°	1785	2056	1949



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.2
10°-20°	292.9	9.2
20°-30°	446.5	14.0
30°-40°	543.7	17.1
40°-50°	571.6	18.0
50°-60°	524.7	16.5
60°-70°	403.1	12.7
70°-80°	225.0	7.1
80°-90°	68.3	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°	841.3	26.5
0°-40°	1385.0	43.6
0°-60°	2481.4	78.1
0°-90°	3177.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3177.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1077	1077	1077	1077	1077	
5°	1074	1074	1069	1074	1075	102
15°	1038	1038	1035	1038	1040	293
25°	971	968	966	970	971	447
35°	875	872	865	867	867	547
45°	753	748	738	734	734	581
55°	608	603	585	575	576	542
65°	435	423	400	395	395	430
75°	240	228	212	183	178	254
85°	55	57	64	62	60	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1077.0	1077.0	1072.0	1077.0	1078.7
5°	1073.6	1073.6	1068.6	1073.6	1075.3
7.5°	1068.6	1068.6	1063.5	1066.9	1070.3
10°	1060.2	1060.2	1056.8	1060.2	1061.9
12.5°	1051.8	1050.1	1046.7	1050.1	1051.8
15°	1038.3	1038.3	1035.0	1038.3	1040.0
17.5°	1024.9	1023.2	1019.9	1024.9	1026.6
20°	1008.1	1006.4	1003.1	1008.1	1011.5
22.5°	989.6	987.9	986.3	991.3	993.0
25°	971.1	967.8	966.1	969.5	971.1
27.5°	947.6	945.9	944.3	945.9	947.6
30°	925.8	922.4	920.7	920.7	924.1
32.5°	898.9	897.2	895.5	897.2	897.2
35°	875.4	872.0	865.3	867.0	867.0
37.5°	846.8	841.8	836.7	836.7	836.7
40°	816.6	813.2	806.5	804.8	806.5
42.5°	784.6	781.3	774.6	769.5	771.2
45°	752.7	747.7	737.6	734.2	734.2
47.5°	719.1	714.1	702.3	697.3	699.0
50°	683.8	677.1	663.7	656.9	656.9
52.5°	646.9	640.1	626.7	618.3	618.3
55°	608.2	603.2	584.7	574.6	576.3
57.5°	564.5	559.5	541.0	529.3	529.3
60°	525.9	515.8	494.0	485.6	485.6
62.5°	482.2	470.4	448.6	438.5	440.2
65°	435.2	423.4	399.9	394.8	394.8
67.5°	388.1	378.0	356.2	347.8	339.4
70°	337.7	327.6	310.8	290.7	280.6
72.5°	290.7	278.9	263.8	233.5	223.5
75°	240.3	228.5	211.7	183.1	178.1
77.5°	191.5	181.5	157.9	151.2	154.6
80°	142.8	139.5	122.7	129.4	134.4
82.5°	95.8	94.1	97.5	100.8	100.8
85°	55.4	57.1	63.8	62.2	60.5
87.5°	23.5	28.6	26.9	26.9	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)