

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: P238720

Luminaire Tested: **14ENA-LD2-18-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238720
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-LD2-18-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 1X4 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: 1523.7 lumens
Efficiency: N/A
Efficacy: 95.2 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

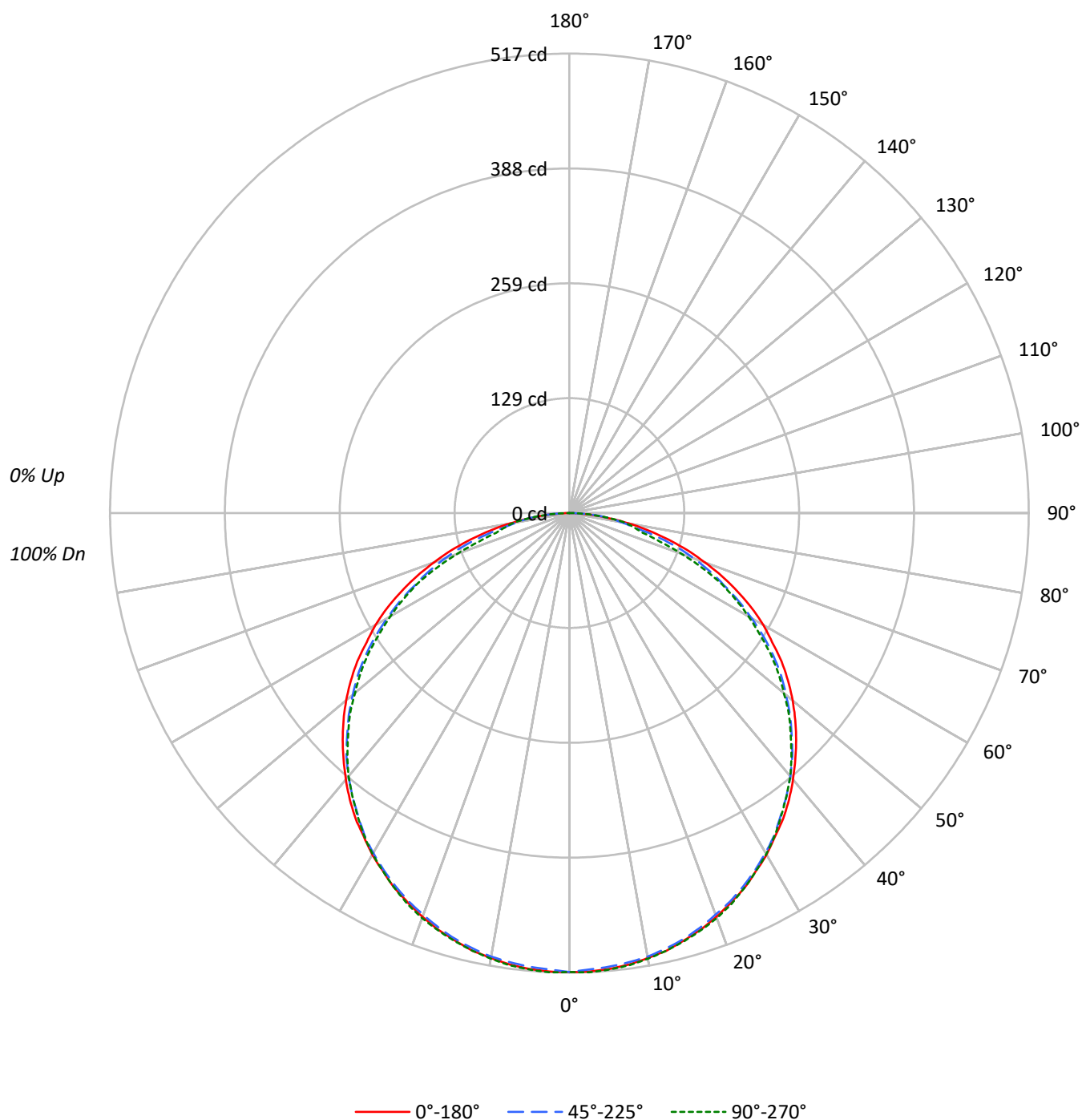
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69	
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58	
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26	
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2175	2175	2175
5°	2177	2166	2180
10°	2174	2167	2177
15°	2171	2164	2175
20°	2167	2156	2174
25°	2164	2153	2164
30°	2159	2147	2155
35°	2158	2133	2137
40°	2153	2126	2126
45°	2150	2107	2097
50°	2149	2085	2064
55°	2141	2058	2029
60°	2125	1995	1961
65°	2079	1911	1887
70°	1994	1835	1656
75°	1875	1652	1390
80°	1662	1426	1562
85°	1285	1479	1401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.2
10°-20°	140.4	9.2
20°-30°	214.1	14.0
30°-40°	260.7	17.1
40°-50°	274.1	18.0
50°-60°	251.6	16.5
60°-70°	193.3	12.7
70°-80°	107.9	7.1
80°-90°	32.7	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°	403.4	26.5
0°-40°	664.1	43.6
0°-60°	1189.8	78.1
0°-90°	1523.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1523.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	515	515	512	515	516	49
15°	498	498	496	498	499	141
25°	466	464	463	465	466	214
35°	420	418	415	416	416	262
45°	361	358	354	352	352	278
55°	292	289	280	276	276	260
65°	209	203	192	189	189	206
75°	115	110	102	88	85	122
85°	27	27	31	30	29	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	516.4	516.4	516.4	516.4	516.4
2.5°	516.4	516.4	514.0	516.4	517.2
5°	514.8	514.8	512.4	514.8	515.6
7.5°	512.4	512.4	509.9	511.6	513.2
10°	508.3	508.3	506.7	508.3	509.1
12.5°	504.3	503.5	501.9	503.5	504.3
15°	497.9	497.9	496.2	497.9	498.7
17.5°	491.4	490.6	489.0	491.4	492.2
20°	483.4	482.6	480.9	483.4	485.0
22.5°	474.5	473.7	472.9	475.3	476.1
25°	465.6	464.0	463.2	464.8	465.6
27.5°	454.4	453.5	452.7	453.5	454.4
30°	443.9	442.3	441.5	441.5	443.1
32.5°	431.0	430.2	429.4	430.2	430.2
35°	419.7	418.1	414.9	415.7	415.7
37.5°	406.0	403.6	401.2	401.2	401.2
40°	391.5	389.9	386.7	385.9	386.7
42.5°	376.2	374.6	371.4	369.0	369.8
45°	360.9	358.5	353.7	352.0	352.0
47.5°	344.8	342.4	336.7	334.3	335.1
50°	327.9	324.7	318.2	315.0	315.0
52.5°	310.2	306.9	300.5	296.5	296.5
55°	291.6	289.2	280.3	275.5	276.3
57.5°	270.7	268.3	259.4	253.8	253.8
60°	252.2	247.3	236.8	232.8	232.8
62.5°	231.2	225.6	215.1	210.3	211.1
65°	208.6	203.0	191.7	189.3	189.3
67.5°	186.1	181.3	170.8	166.8	162.7
70°	161.9	157.1	149.0	139.4	134.5
72.5°	139.4	133.7	126.5	112.0	107.1
75°	115.2	109.6	101.5	87.8	85.4
77.5°	91.8	87.0	75.7	72.5	74.1
80°	68.5	66.9	58.8	62.0	64.4
82.5°	45.9	45.1	46.7	48.3	48.3
85°	26.6	27.4	30.6	29.8	29.0
87.5°	11.3	13.7	12.9	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)