

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: P238653

Luminaire Tested: **14ENA-LD2-18-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238653
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-L830-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1548.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

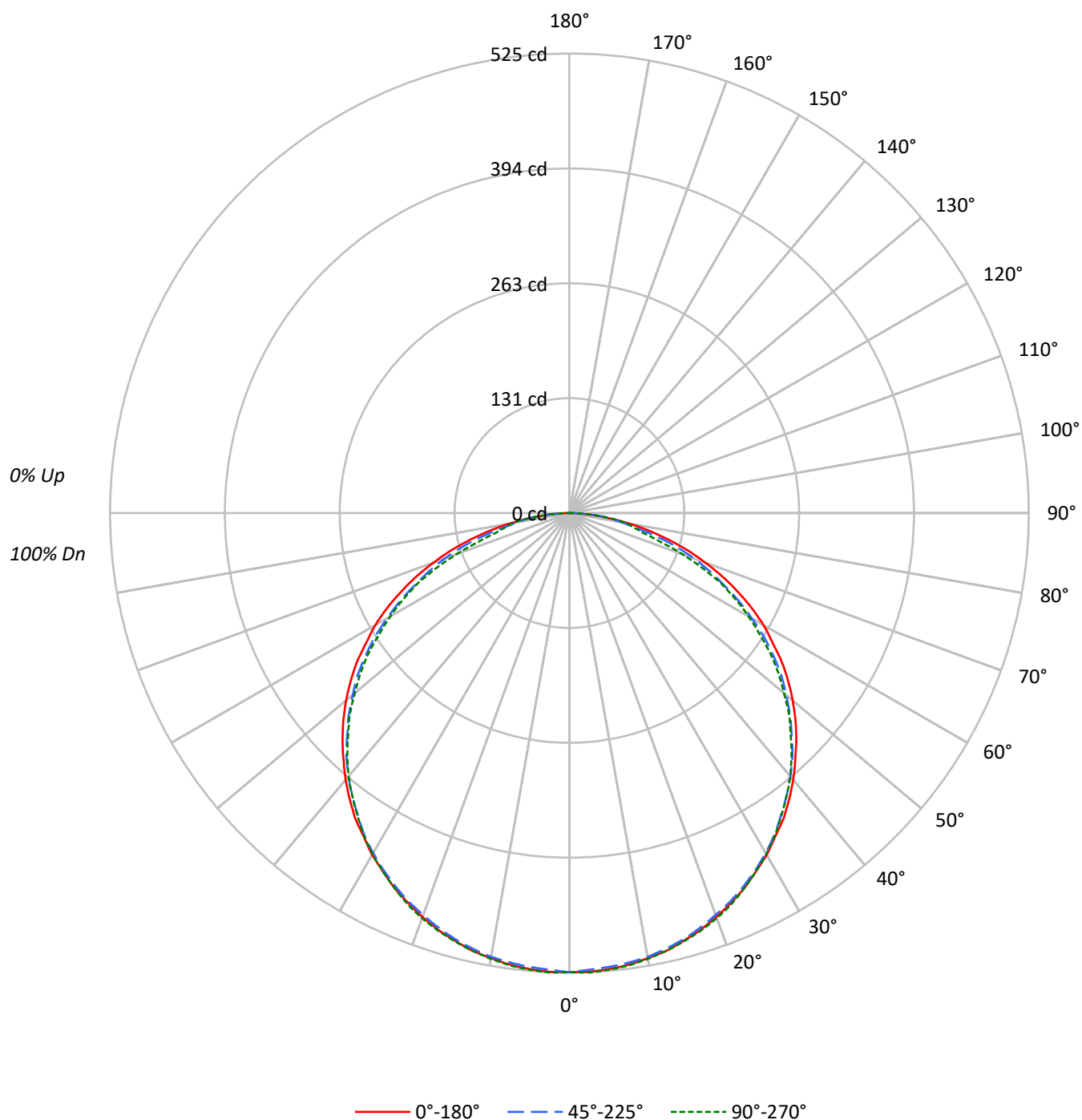
Input Watts (W): 16
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2210	2210	2210
5°	2211	2201	2215
10°	2209	2202	2212
15°	2206	2198	2209
20°	2201	2190	2208
25°	2198	2187	2198
30°	2193	2181	2189
35°	2192	2167	2171
40°	2187	2160	2160
45°	2184	2140	2131
50°	2183	2118	2097
55°	2176	2091	2061
60°	2158	2027	1992
65°	2113	1941	1917
70°	2026	1864	1683
75°	1904	1678	1413
80°	1688	1448	1589
85°	1305	1503	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	3.2
10°-20°	142.7	9.2
20°-30°	217.5	14.0
30°-40°	264.8	17.1
40°-50°	278.5	18.0
50°-60°	255.6	16.5
60°-70°	196.4	12.7
70°-80°	109.6	7.1
80°-90°	33.3	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°	409.8	26.5
0°-40°	674.7	43.6
0°-60°	1208.7	78.1
0°-90°	1548.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1548.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	525	525	525	525	525	
5°	523	523	520	523	524	50
15°	506	506	504	506	507	143
25°	473	471	471	472	473	218
35°	426	425	422	422	422	267
45°	367	364	359	358	358	283
55°	296	294	285	280	281	264
65°	212	206	195	192	192	209
75°	117	111	103	89	87	124
85°	27	28	31	30	30	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.6	524.6	524.6	524.6	524.6
2.5°	524.6	524.6	522.2	524.6	525.4
5°	523.0	523.0	520.5	523.0	523.8
7.5°	520.5	520.5	518.1	519.7	521.3
10°	516.4	516.4	514.8	516.4	517.2
12.5°	512.3	511.5	509.9	511.5	512.3
15°	505.8	505.8	504.1	505.8	506.6
17.5°	499.2	498.4	496.8	499.2	500.1
20°	491.1	490.2	488.6	491.1	492.7
22.5°	482.1	481.2	480.4	482.9	483.7
25°	473.0	471.4	470.6	472.2	473.0
27.5°	461.6	460.8	460.0	460.8	461.6
30°	451.0	449.3	448.5	448.5	450.1
32.5°	437.9	437.0	436.2	437.0	437.0
35°	426.4	424.8	421.5	422.3	422.3
37.5°	412.5	410.0	407.6	407.6	407.6
40°	397.8	396.1	392.8	392.0	392.8
42.5°	382.2	380.6	377.3	374.8	375.7
45°	366.7	364.2	359.3	357.7	357.7
47.5°	350.3	347.8	342.1	339.6	340.5
50°	333.1	329.8	323.3	320.0	320.0
52.5°	315.1	311.8	305.3	301.2	301.2
55°	296.3	293.8	284.8	279.9	280.7
57.5°	275.0	272.5	263.5	257.8	257.8
60°	256.2	251.3	240.6	236.5	236.5
62.5°	234.9	229.2	218.5	213.6	214.4
65°	212.0	206.2	194.8	192.3	192.3
67.5°	189.1	184.1	173.5	169.4	165.3
70°	164.5	159.6	151.4	141.6	136.7
72.5°	141.6	135.9	128.5	113.8	108.9
75°	117.0	111.3	103.1	89.2	86.8
77.5°	93.3	88.4	76.9	73.7	75.3
80°	69.6	67.9	59.7	63.0	65.5
82.5°	46.7	45.8	47.5	49.1	49.1
85°	27.0	27.8	31.1	30.3	29.5
87.5°	11.5	13.9	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)