

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: P238682

Luminaire Tested: **14ENA-LD2-51-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238682
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-LD2-51-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4400.6 lumens
Efficiency: N/A
Efficacy: 98.4 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

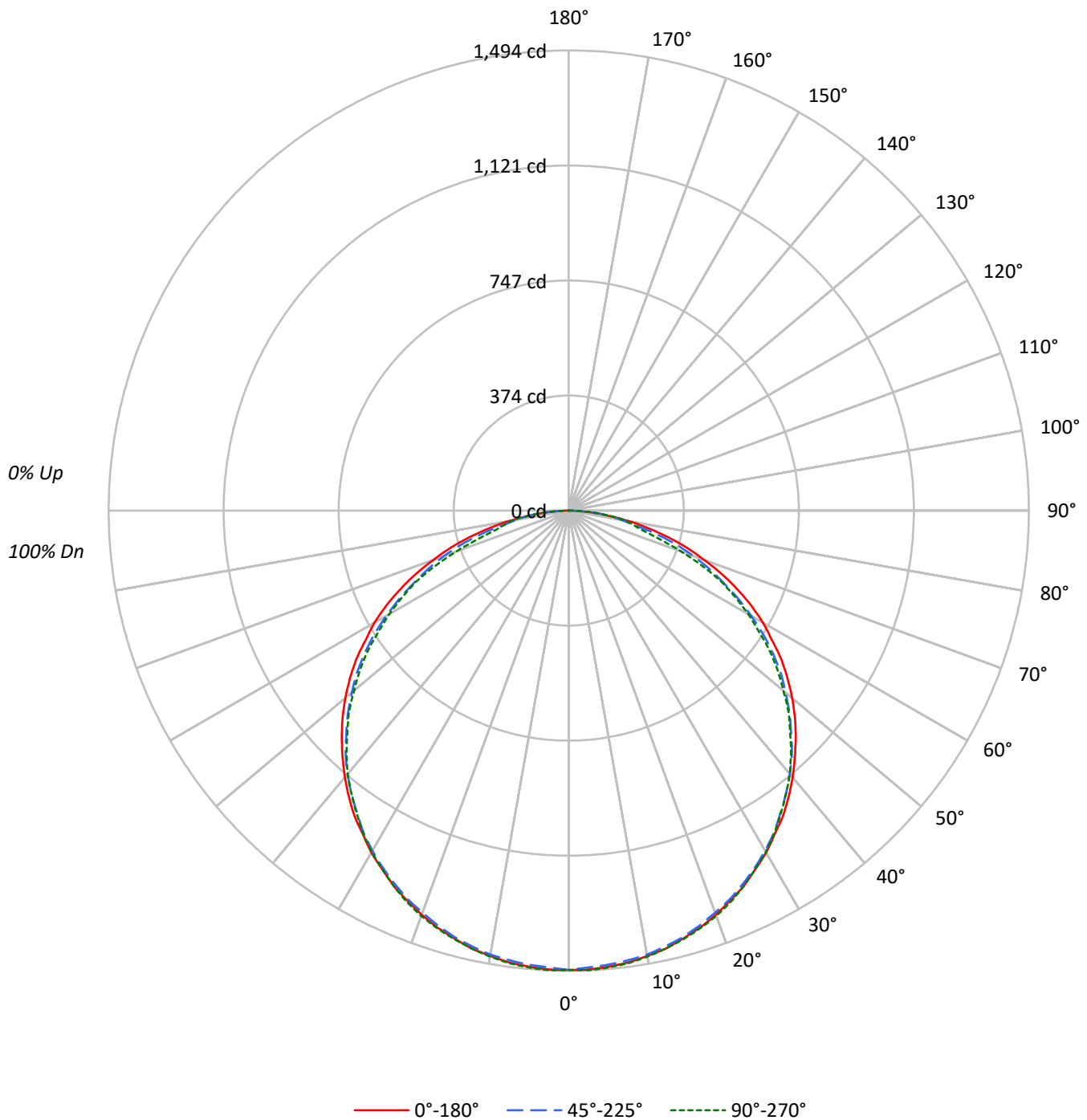
Input Watts (W): 44.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6282	6282	6282
5°	6286	6257	6296
10°	6279	6259	6289
15°	6270	6250	6280
20°	6257	6226	6278
25°	6250	6217	6250
30°	6235	6201	6224
35°	6233	6161	6173
40°	6218	6141	6141
45°	6209	6084	6056
50°	6205	6022	5961
55°	6185	5946	5860
60°	6134	5762	5664
65°	6006	5518	5450
70°	5760	5300	4786
75°	5414	4771	4013
80°	4798	4119	4514
85°	3712	4272	4050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.2
10°-20°	405.6	9.2
20°-30°	618.3	14.0
30°-40°	752.9	17.1
40°-50°	791.6	18.0
50°-60°	726.6	16.5
60°-70°	558.3	12.7
70°-80°	311.6	7.1
80°-90°	94.6	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°	1165.1	26.5
0°-40°	1918.0	43.6
0°-60°	3436.2	78.1
0°-90°	4400.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1487	1487	1480	1487	1489	141
15°	1438	1438	1433	1438	1440	406
25°	1345	1340	1338	1342	1345	619
35°	1212	1208	1198	1201	1201	758
45°	1042	1035	1021	1017	1017	804
55°	842	835	810	796	798	751
65°	603	586	554	547	547	595
75°	333	316	293	254	247	352
85°	77	79	88	86	84	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.4	1491.4	1491.4	1491.4	1491.4
2.5°	1491.4	1491.4	1484.4	1491.4	1493.7
5°	1486.7	1486.7	1479.8	1486.7	1489.1
7.5°	1479.8	1479.8	1472.8	1477.4	1482.1
10°	1468.1	1468.1	1463.5	1468.1	1470.4
12.5°	1456.5	1454.2	1449.5	1454.2	1456.5
15°	1437.9	1437.9	1433.2	1437.9	1440.2
17.5°	1419.3	1416.9	1412.3	1419.3	1421.6
20°	1396.0	1393.7	1389.0	1396.0	1400.6
22.5°	1370.4	1368.1	1365.7	1372.7	1375.1
25°	1344.8	1340.2	1337.8	1342.5	1344.8
27.5°	1312.2	1309.9	1307.6	1309.9	1312.2
30°	1282.0	1277.3	1275.0	1275.0	1279.7
32.5°	1244.8	1242.4	1240.1	1242.4	1242.4
35°	1212.2	1207.5	1198.2	1200.6	1200.6
37.5°	1172.6	1165.7	1158.7	1158.7	1158.7
40°	1130.8	1126.1	1116.8	1114.5	1116.8
42.5°	1086.5	1081.9	1072.6	1065.6	1067.9
45°	1042.3	1035.4	1021.4	1016.7	1016.7
47.5°	995.8	988.8	972.5	965.6	967.9
50°	946.9	937.6	919.0	909.7	909.7
52.5°	895.8	886.5	867.8	856.2	856.2
55°	842.3	835.3	809.7	795.7	798.0
57.5°	781.8	774.8	749.2	732.9	732.9
60°	728.2	714.3	684.0	672.4	672.4
62.5°	667.8	651.5	621.2	607.3	609.6
65°	602.6	586.3	553.7	546.8	546.8
67.5°	537.5	523.5	493.3	481.6	470.0
70°	467.7	453.7	430.4	402.5	388.6
72.5°	402.5	386.2	365.3	323.4	309.4
75°	332.7	316.4	293.2	253.6	246.6
77.5°	265.2	251.3	218.7	209.4	214.1
80°	197.8	193.1	169.8	179.2	186.1
82.5°	132.6	130.3	134.9	139.6	139.6
85°	76.8	79.1	88.4	86.1	83.8
87.5°	32.6	39.6	37.2	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)