

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: P238770

Luminaire Tested: **14EN-LD2-43-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238770
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-LD2-43-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 1X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4335.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

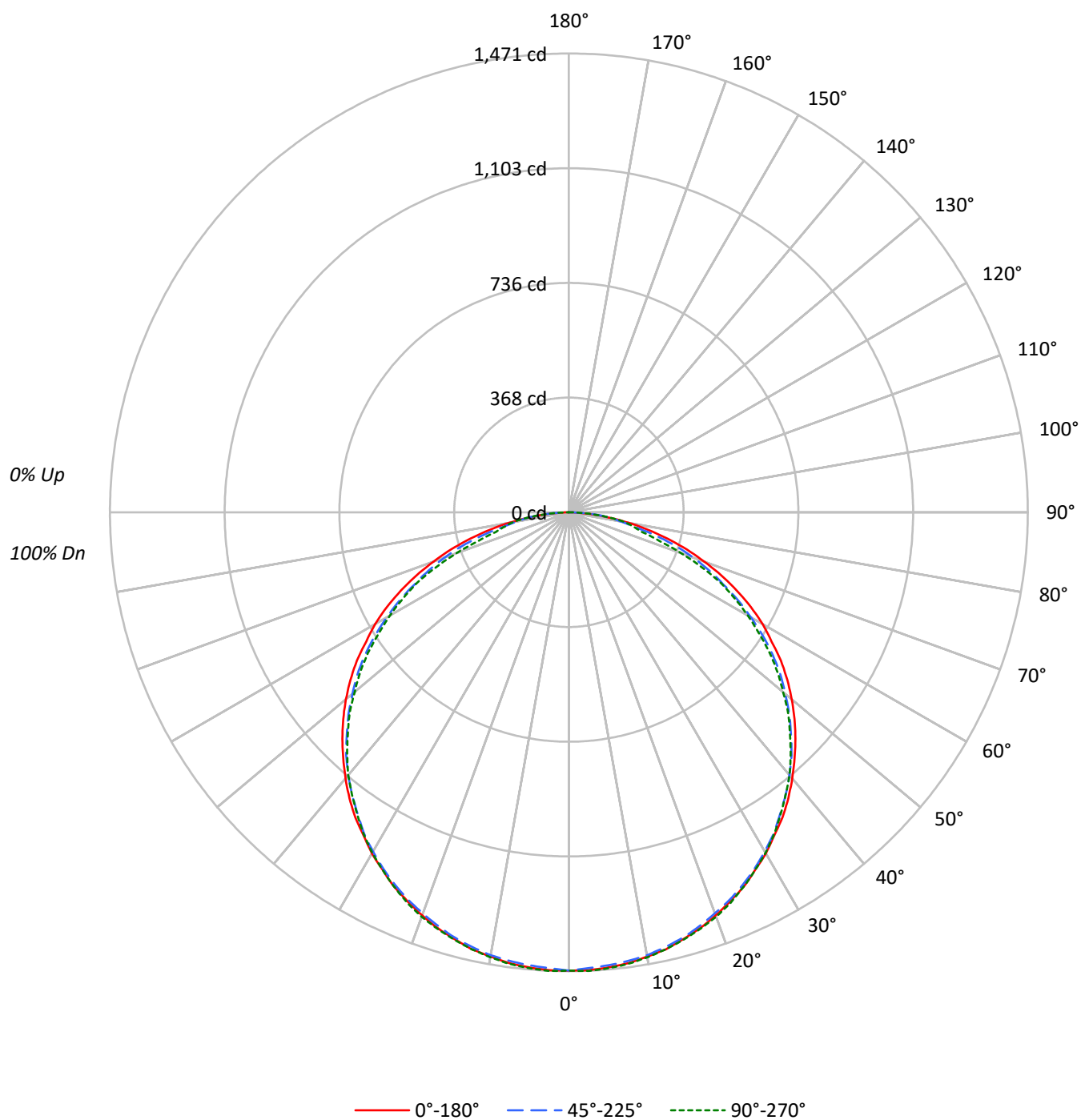
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4125	4125	4125
5°	4128	4109	4135
10°	4124	4110	4130
15°	4118	4104	4124
20°	4109	4089	4123
25°	4105	4083	4105
30°	4095	4072	4087
35°	4093	4046	4054
40°	4083	4032	4032
45°	4078	3996	3977
50°	4075	3955	3915
55°	4062	3905	3848
60°	4029	3784	3720
65°	3944	3624	3579
70°	3782	3481	3143
75°	3556	3133	2635
80°	3150	2705	2966
85°	2436	2806	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.2
10°-20°	399.6	9.2
20°-30°	609.0	14.0
30°-40°	741.6	17.1
40°-50°	779.8	18.0
50°-60°	715.8	16.5
60°-70°	549.9	12.7
70°-80°	306.9	7.1
80°-90°	93.2	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°	1147.7	26.5
0°-40°	1889.4	43.6
0°-60°	3385.0	78.1
0°-90°	4335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1465	1465	1458	1465	1467	139
15°	1416	1416	1412	1416	1419	400
25°	1325	1320	1318	1322	1325	610
35°	1194	1190	1180	1183	1183	746
45°	1027	1020	1006	1002	1002	792
55°	830	823	798	784	786	740
65°	594	578	546	539	539	586
75°	328	312	289	250	243	346
85°	76	78	87	85	82	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.1	1469.1	1469.1	1469.1	1469.1
2.5°	1469.1	1469.1	1462.3	1469.1	1471.4
5°	1464.6	1464.6	1457.7	1464.6	1466.9
7.5°	1457.7	1457.7	1450.8	1455.4	1460.0
10°	1446.2	1446.2	1441.6	1446.2	1448.5
12.5°	1434.8	1432.5	1427.9	1432.5	1434.8
15°	1416.4	1416.4	1411.8	1416.4	1418.7
17.5°	1398.1	1395.8	1391.2	1398.1	1400.4
20°	1375.2	1372.9	1368.3	1375.2	1379.8
22.5°	1350.0	1347.7	1345.4	1352.3	1354.6
25°	1324.8	1320.2	1317.9	1322.5	1324.8
27.5°	1292.7	1290.4	1288.1	1290.4	1292.7
30°	1262.9	1258.3	1256.0	1256.0	1260.6
32.5°	1226.2	1223.9	1221.6	1223.9	1223.9
35°	1194.1	1189.5	1180.4	1182.7	1182.7
37.5°	1155.1	1148.3	1141.4	1141.4	1141.4
40°	1113.9	1109.3	1100.1	1097.9	1100.1
42.5°	1070.3	1065.8	1056.6	1049.7	1052.0
45°	1026.8	1019.9	1006.2	1001.6	1001.6
47.5°	981.0	974.1	958.0	951.2	953.5
50°	932.8	923.7	905.3	896.2	896.2
52.5°	882.4	873.2	854.9	843.4	843.4
55°	829.7	822.8	797.6	783.9	786.1
57.5°	770.1	763.2	738.0	722.0	722.0
60°	717.4	703.6	673.8	662.4	662.4
62.5°	657.8	641.7	612.0	598.2	600.5
65°	593.6	577.6	545.5	538.6	538.6
67.5°	529.4	515.7	485.9	474.4	463.0
70°	460.7	446.9	424.0	396.5	382.8
72.5°	396.5	380.5	359.8	318.6	304.8
75°	327.8	311.7	288.8	249.8	242.9
77.5°	261.3	247.5	215.4	206.3	210.9
80°	194.8	190.2	167.3	176.5	183.4
82.5°	130.6	128.3	132.9	137.5	137.5
85°	75.6	77.9	87.1	84.8	82.5
87.5°	32.1	39.0	36.7	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)