

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: P238966

Luminaire Tested: **24EN-LD2-40-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-40-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3620.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

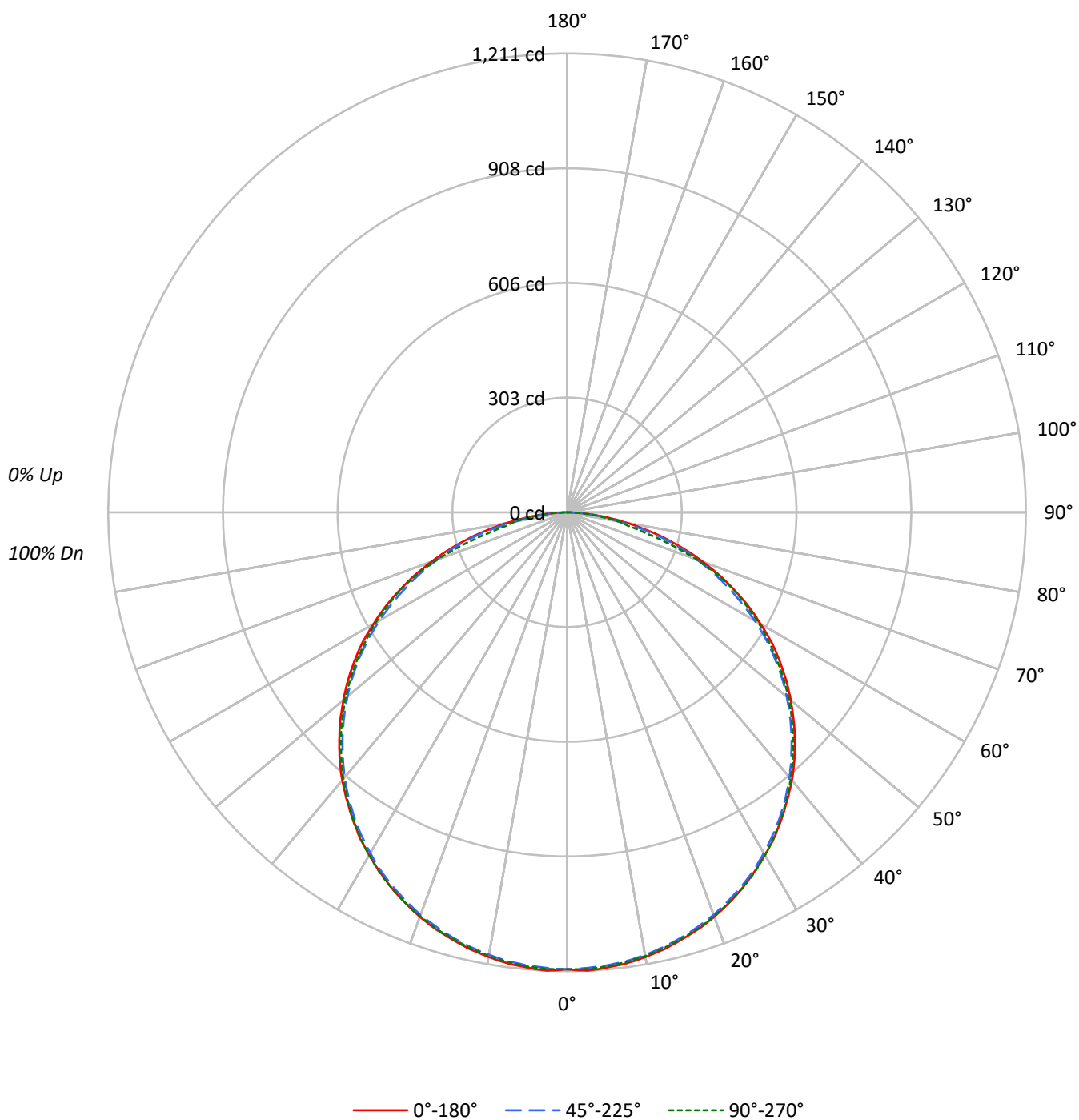
Input Watts (W): 33.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	90	83	77	96	88	82	76		84	79	74			81	77	73			78
3	90	79	70	64	87	77	69	63		74	67	62			71	66	61			69
4	82	70	61	54	79	68	60	53		66	58	53			63	57	52			61
5	75	62	53	46	73	61	52	46		59	51	45			57	50	45			55
6	69	56	47	40	67	55	46	40		53	45	40			51	44	39			50
7	64	50	42	35	62	50	41	35		48	40	35			47	40	35			45
8	60	46	37	31	58	45	37	31		44	36	31			43	36	31			41
9	56	42	34	28	54	42	34	28		40	33	28			39	33	28			38
10	52	39	31	26	51	38	31	25		37	30	25			36	30	25			35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1848	1848	1848
5°	1855	1846	1850
10°	1854	1845	1849
15°	1852	1843	1848
20°	1852	1843	1849
25°	1850	1841	1850
30°	1847	1837	1847
35°	1846	1833	1843
40°	1846	1827	1837
45°	1842	1815	1828
50°	1836	1804	1820
55°	1830	1785	1804
60°	1807	1752	1789
65°	1771	1697	1760
70°	1707	1636	1633
75°	1607	1535	1298
80°	1415	1200	1234
85°	1116	1051	970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.2
10°-20°	328.6	9.1
20°-30°	502.9	13.9
30°-40°	614.7	17.0
40°-50°	649.5	17.9
50°-60°	601.8	16.6
60°-70°	471.5	13.0
70°-80°	266.6	7.4
80°-90°	70.2	1.9
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°	945.8	26.1
0°-40°	1560.5	43.1
0°-60°	2811.8	77.7
0°-90°	3620.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3620.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1206	1203	1200	1200	1203	115
15°	1168	1163	1162	1162	1166	330
25°	1094	1090	1089	1089	1094	505
35°	987	982	980	980	986	618
45°	850	844	838	838	844	656
55°	685	678	669	670	675	612
65°	489	480	468	474	486	483
75°	272	264	259	231	219	286
85°	64	60	60	57	55	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.4	1206.4	1206.4	1206.4	1206.4
2.5°	1210.9	1205.7	1204.1	1202.6	1206.4
5°	1206.4	1202.6	1200.4	1199.6	1203.4
7.5°	1201.1	1196.6	1195.1	1193.6	1197.3
10°	1192.0	1187.5	1186.0	1185.2	1189.0
12.5°	1181.5	1176.2	1175.4	1174.6	1178.4
15°	1167.8	1163.3	1162.5	1161.8	1165.6
17.5°	1153.5	1148.9	1147.4	1146.7	1152.0
20°	1136.1	1131.5	1130.8	1130.0	1134.6
22.5°	1116.4	1111.9	1110.4	1111.1	1115.6
25°	1094.5	1089.9	1089.2	1089.2	1094.5
27.5°	1070.3	1065.7	1065.7	1065.7	1071.8
30°	1044.5	1040.8	1038.5	1039.3	1044.5
32.5°	1018.1	1012.0	1010.5	1011.3	1016.6
35°	987.1	982.5	980.3	980.3	985.6
37.5°	955.3	950.8	947.7	947.7	953.0
40°	923.5	916.7	913.7	912.2	919.0
42.5°	888.0	882.7	875.9	875.9	881.9
45°	850.2	844.1	838.1	838.1	844.1
47.5°	811.6	805.5	798.7	798.7	804.8
50°	770.7	764.7	757.1	757.1	763.9
52.5°	729.1	722.3	714.0	713.3	720.1
55°	685.3	677.7	668.6	670.1	675.4
57.5°	640.6	630.8	621.7	621.7	630.1
60°	590.0	581.6	571.8	573.3	583.9
62.5°	541.6	531.0	521.1	524.9	534.0
65°	488.6	479.5	468.2	474.2	485.6
67.5°	436.4	426.6	417.5	425.1	430.4
70°	381.2	372.1	365.3	365.3	364.6
72.5°	326.0	317.7	316.2	301.8	292.7
75°	271.5	264.0	259.4	231.4	219.3
77.5°	214.8	212.5	198.2	168.7	164.9
80°	160.4	161.9	136.1	136.9	139.9
82.5°	110.4	108.2	102.1	97.6	96.1
85°	63.5	59.8	59.8	56.7	55.2
87.5°	21.2	23.4	23.4	23.4	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)