

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: P238882

Luminaire Tested: **24EN-LD2-34-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238882
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-LD2-34-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (224)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3610.2 lumens
Efficiency: N/A
Efficacy: 125.8 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

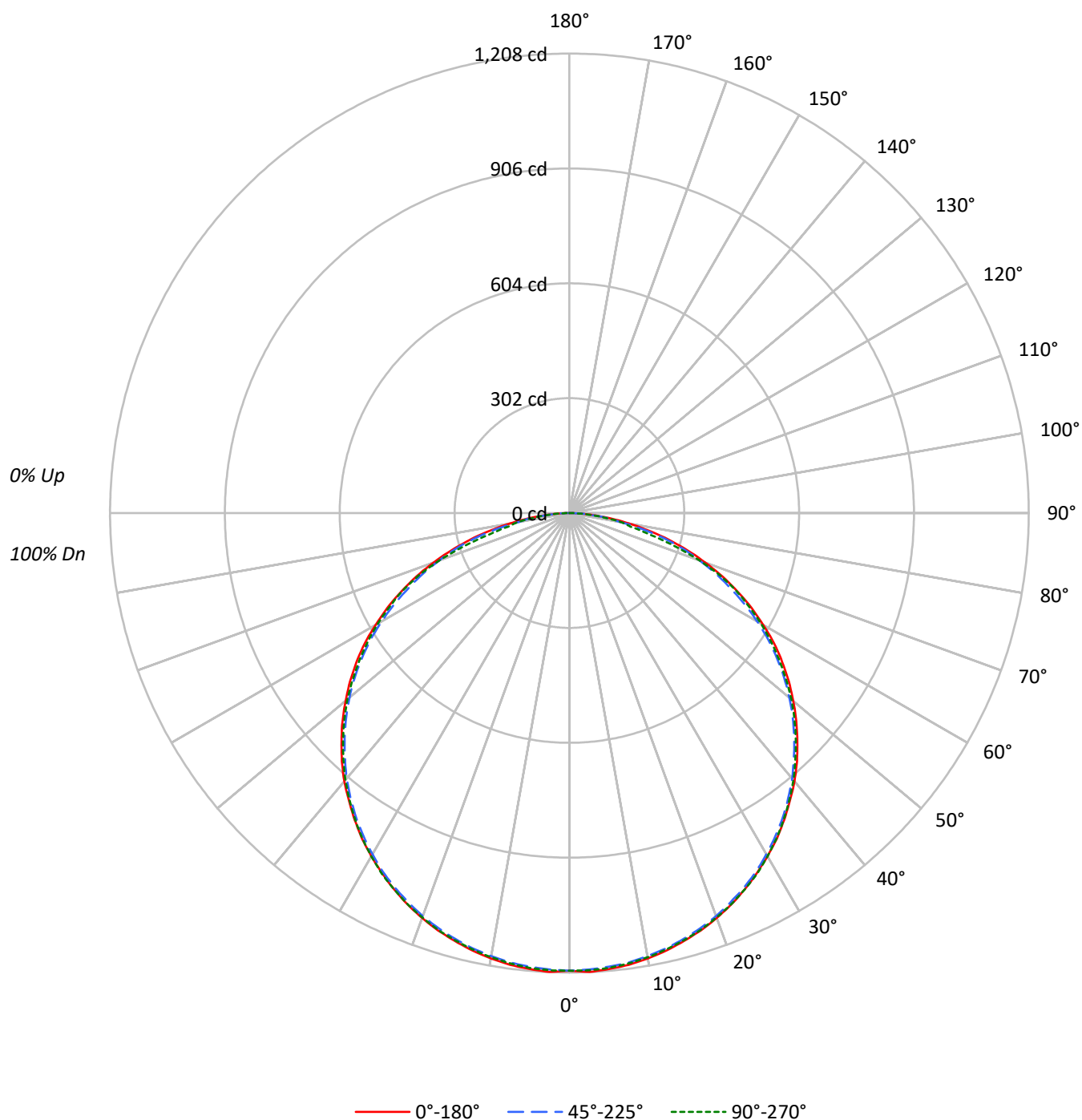
Input Watts (W): 28.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	1843	1843	1843
5°	1850	1841	1845
10°	1849	1839	1844
15°	1847	1838	1843
20°	1847	1838	1844
25°	1845	1836	1845
30°	1842	1832	1842
35°	1841	1828	1838
40°	1841	1822	1832
45°	1836	1810	1823
50°	1831	1799	1815
55°	1825	1781	1799
60°	1802	1747	1784
65°	1766	1692	1755
70°	1703	1631	1628
75°	1603	1531	1294
80°	1410	1198	1230
85°	1114	1047	968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.2
10°-20°	327.7	9.1
20°-30°	501.5	13.9
30°-40°	613.0	17.0
40°-50°	647.8	17.9
50°-60°	600.2	16.6
60°-70°	470.2	13.0
70°-80°	265.8	7.4
80°-90°	70.0	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°	943.2	26.1
0°-40°	1556.2	43.1
0°-60°	2804.1	77.7
0°-90°	3610.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3610.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1203	1203	1203	1203	1203	
5°	1203	1199	1197	1196	1200	114
15°	1165	1160	1159	1159	1162	329
25°	1092	1087	1086	1086	1092	503
35°	984	980	978	978	983	616
45°	848	842	836	836	842	654
55°	683	676	667	668	674	610
65°	487	478	467	473	484	482
75°	271	263	259	231	219	285
85°	63	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°	1203.1	1203.1	1203.1	1203.1	1203.1
2.5°	1207.6	1202.4	1200.9	1199.3	1203.1
5°	1203.1	1199.3	1197.1	1196.3	1200.1
7.5°	1197.8	1193.3	1191.8	1190.3	1194.1
10°	1188.8	1184.3	1182.7	1182.0	1185.8
12.5°	1178.2	1172.9	1172.2	1171.4	1175.2
15°	1164.6	1160.1	1159.4	1158.6	1162.4
17.5°	1150.3	1145.8	1144.3	1143.5	1148.8
20°	1133.0	1128.4	1127.7	1126.9	1131.5
22.5°	1113.4	1108.8	1107.3	1108.1	1112.6
25°	1091.5	1087.0	1086.2	1086.2	1091.5
27.5°	1067.3	1062.8	1062.8	1062.8	1068.8
30°	1041.7	1037.9	1035.7	1036.4	1041.7
32.5°	1015.3	1009.3	1007.8	1008.5	1013.8
35°	984.4	979.8	977.6	977.6	982.9
37.5°	952.7	948.2	945.1	945.1	950.4
40°	921.0	914.2	911.2	909.7	916.5
42.5°	885.6	880.3	873.5	873.5	879.5
45°	847.8	841.8	835.8	835.8	841.8
47.5°	809.4	803.3	796.5	796.5	802.6
50°	768.6	762.6	755.1	755.1	761.8
52.5°	727.1	720.4	712.1	711.3	718.1
55°	683.4	675.9	666.8	668.3	673.6
57.5°	638.9	629.1	620.0	620.0	628.3
60°	588.4	580.1	570.3	571.8	582.3
62.5°	540.1	529.5	519.7	523.5	532.5
65°	487.3	478.2	466.9	472.9	484.3
67.5°	435.2	425.4	416.4	423.9	429.2
70°	380.2	371.1	364.3	364.3	363.6
72.5°	325.1	316.8	315.3	301.0	291.9
75°	270.8	263.3	258.7	230.8	218.7
77.5°	214.2	212.0	197.6	168.2	164.4
80°	159.9	161.4	135.8	136.5	139.5
82.5°	110.1	107.9	101.8	97.3	95.8
85°	63.4	59.6	59.6	56.6	55.1
87.5°	21.1	23.4	23.4	23.4	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)