

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: P238795

Luminaire Tested: **22EN-LD2-34-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238795
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22EN-LD2-34-UNV-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3540.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

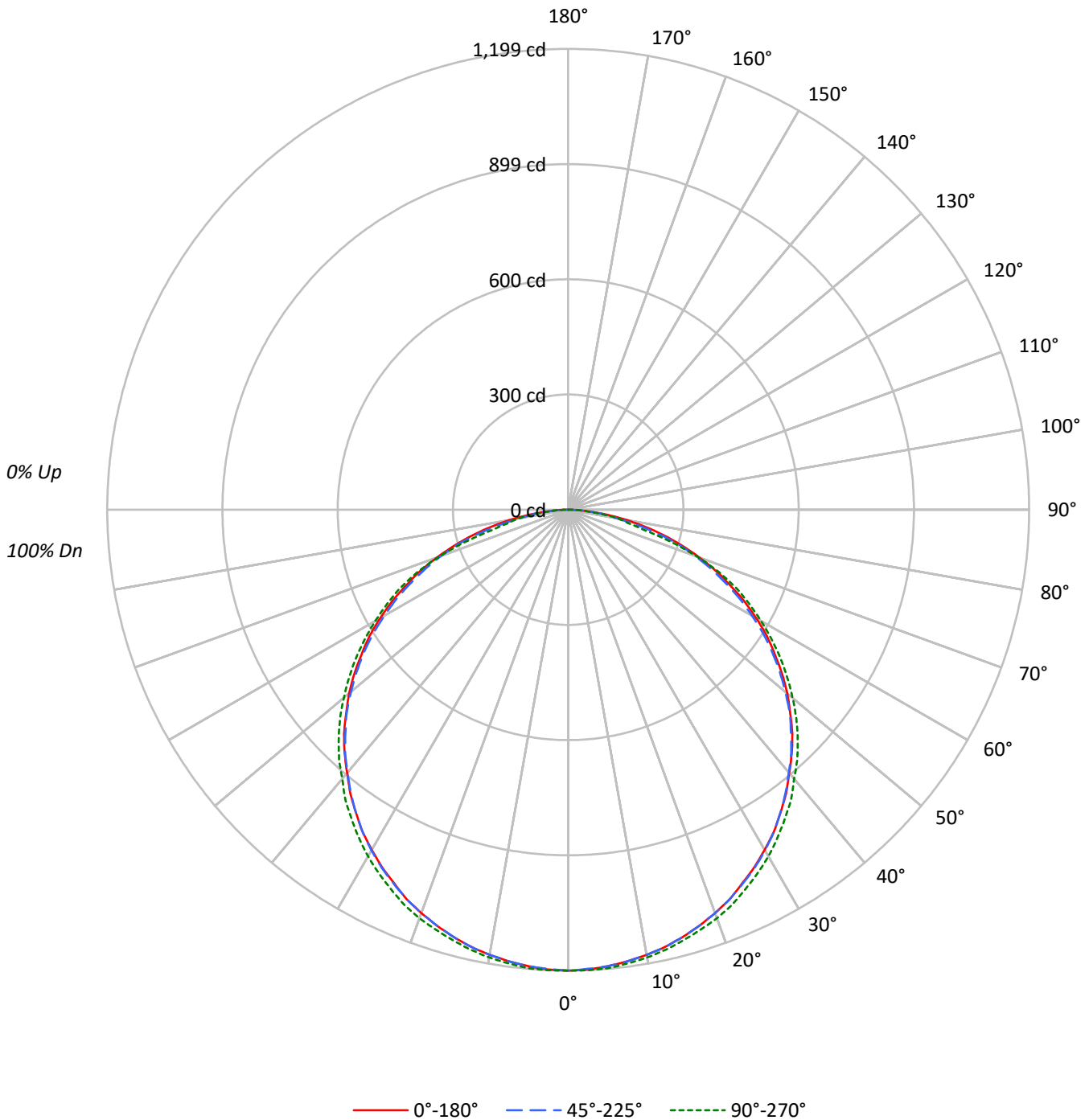
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3841	3841	3841
5°	3832	3832	3850
10°	3824	3824	3847
15°	3816	3816	3845
20°	3806	3806	3855
25°	3788	3794	3851
30°	3779	3785	3851
35°	3763	3763	3840
40°	3740	3732	3822
45°	3735	3710	3824
50°	3706	3671	3796
55°	3663	3623	3763
60°	3617	3536	3708
65°	3518	3423	3654
70°	3391	3290	3340
75°	3194	2994	2550
80°	2811	2348	2447
85°	2043	1977	1911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.2
10°-20°	325.6	9.2
20°-30°	497.0	14.0
30°-40°	605.3	17.1
40°-50°	637.1	18.0
50°-60°	586.6	16.6
60°-70°	456.6	12.9
70°-80°	253.4	7.2
80°-90°	65.1	1.8
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°	935.9	26.4
0°-40°	1541.2	43.5
0°-60°	2765.0	78.1
0°-90°	3540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1192	1192	1192	1196	1198	113
15°	1151	1151	1151	1156	1160	325
25°	1072	1074	1074	1083	1090	495
35°	963	963	963	973	982	602
45°	825	819	819	832	844	635
55°	656	654	649	660	674	587
65°	464	459	452	466	482	460
75°	258	253	242	215	206	272
85°	56	52	54	52	52	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1197.5	1195.7	1195.7	1199.3	1199.3
5°	1192.1	1192.1	1192.1	1195.7	1197.5
7.5°	1184.9	1184.9	1184.9	1190.3	1190.3
10°	1176.0	1174.2	1176.0	1179.5	1183.1
12.5°	1165.2	1163.4	1165.2	1168.8	1172.4
15°	1150.9	1150.9	1150.9	1156.2	1159.8
17.5°	1134.7	1132.9	1134.7	1140.1	1145.5
20°	1116.8	1116.8	1116.8	1124.0	1131.1
22.5°	1097.1	1095.3	1097.1	1106.0	1113.2
25°	1072.0	1073.8	1073.8	1082.7	1089.9
27.5°	1048.7	1046.9	1050.5	1057.6	1066.6
30°	1021.8	1021.8	1023.6	1032.5	1041.5
32.5°	994.9	993.1	994.9	1003.9	1012.8
35°	962.6	962.6	962.6	973.4	982.3
37.5°	930.4	928.6	928.6	939.3	951.9
40°	894.5	892.7	892.7	905.3	914.2
42.5°	860.5	858.7	858.7	869.4	882.0
45°	824.6	819.2	819.2	831.8	844.3
47.5°	783.4	779.8	781.6	792.3	804.9
50°	743.9	738.6	736.8	749.3	761.9
52.5°	700.9	699.1	693.7	704.5	718.8
55°	656.1	654.3	648.9	659.7	674.0
57.5°	613.1	607.7	602.3	611.3	627.4
60°	564.7	559.3	552.1	564.7	579.0
62.5°	516.3	509.1	503.7	514.5	530.6
65°	464.3	458.9	451.7	466.1	482.2
67.5°	415.9	410.5	401.5	414.1	424.8
70°	362.1	354.9	351.4	353.1	356.7
72.5°	310.1	306.5	301.2	286.8	283.2
75°	258.1	252.8	242.0	215.1	206.1
77.5°	206.1	202.6	182.8	159.5	159.5
80°	152.4	150.6	127.3	130.9	132.7
82.5°	104.0	100.4	93.2	91.4	91.4
85°	55.6	52.0	53.8	52.0	52.0
87.5°	21.5	21.5	23.3	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)