

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: P238846

Luminaire Tested: **22EN-LD2-39-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238846
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-LD2-39-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3425.8 lumens
Efficiency: N/A
Efficacy: 102.9 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

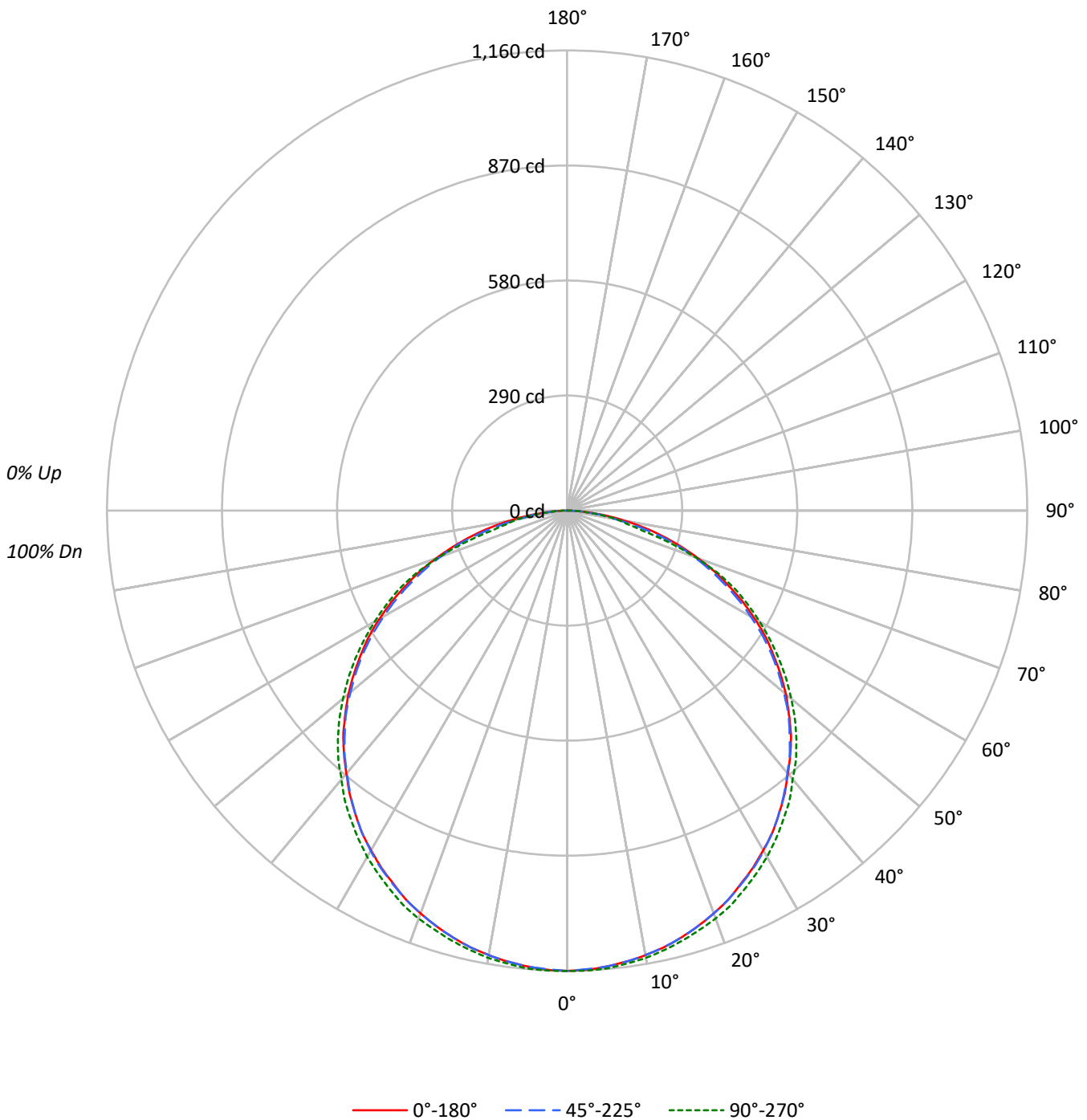
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3716	3716	3716
5°	3709	3709	3725
10°	3701	3701	3723
15°	3692	3692	3721
20°	3683	3683	3730
25°	3666	3672	3727
30°	3656	3663	3727
35°	3642	3642	3716
40°	3619	3612	3699
45°	3614	3591	3701
50°	3587	3552	3673
55°	3545	3506	3642
60°	3500	3422	3589
65°	3405	3313	3536
70°	3281	3184	3232
75°	3091	2898	2469
80°	2720	2272	2368
85°	1977	1911	1848



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.2
10°-20°	315.0	9.2
20°-30°	480.9	14.0
30°-40°	585.8	17.1
40°-50°	616.6	18.0
50°-60°	567.7	16.6
60°-70°	441.9	12.9
70°-80°	245.2	7.2
80°-90°	63.0	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°	905.7	26.4
0°-40°	1491.5	43.5
0°-60°	2675.7	78.1
0°-90°	3425.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3425.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1154	1154	1154	1157	1159	110
15°	1114	1114	1114	1119	1122	314
25°	1037	1039	1039	1048	1055	479
35°	932	932	932	942	951	583
45°	798	793	793	805	817	614
55°	635	633	628	638	652	568
65°	449	444	437	451	467	445
75°	250	245	234	208	200	263
85°	54	50	52	50	50	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.5	1160.5	1160.5	1160.5	1160.5
2.5°	1158.8	1157.1	1157.1	1160.5	1160.5
5°	1153.6	1153.6	1153.6	1157.1	1158.8
7.5°	1146.7	1146.7	1146.7	1151.9	1151.9
10°	1138.0	1136.3	1138.0	1141.5	1144.9
12.5°	1127.6	1125.8	1127.6	1131.0	1134.5
15°	1113.7	1113.7	1113.7	1118.9	1122.4
17.5°	1098.1	1096.4	1098.1	1103.3	1108.5
20°	1080.7	1080.7	1080.7	1087.7	1094.6
22.5°	1061.7	1059.9	1061.7	1070.3	1077.3
25°	1037.4	1039.1	1039.1	1047.8	1054.7
27.5°	1014.8	1013.1	1016.6	1023.5	1032.2
30°	988.8	988.8	990.5	999.2	1007.9
32.5°	962.8	961.0	962.8	971.5	980.1
35°	931.6	931.6	931.6	942.0	950.6
37.5°	900.3	898.6	898.6	909.0	921.1
40°	865.6	863.9	863.9	876.0	884.7
42.5°	832.7	830.9	830.9	841.3	853.5
45°	798.0	792.8	792.8	804.9	817.1
47.5°	758.1	754.6	756.3	766.8	778.9
50°	719.9	714.7	713.0	725.1	737.3
52.5°	678.3	676.5	671.3	681.8	695.6
55°	634.9	633.2	628.0	638.4	652.3
57.5°	593.3	588.1	582.9	591.5	607.2
60°	546.4	541.2	534.3	546.4	560.3
62.5°	499.6	492.7	487.5	497.9	513.5
65°	449.3	444.1	437.2	451.0	466.6
67.5°	402.5	397.3	388.6	400.7	411.1
70°	350.4	343.5	340.0	341.7	345.2
72.5°	300.1	296.6	291.4	277.6	274.1
75°	249.8	244.6	234.2	208.2	199.5
77.5°	199.5	196.0	176.9	154.4	154.4
80°	147.5	145.7	123.2	126.6	128.4
82.5°	100.6	97.1	90.2	88.5	88.5
85°	53.8	50.3	52.0	50.3	50.3
87.5°	20.8	20.8	22.6	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)