

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: P238844

Luminaire Tested: **22EN-LD2-34-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238844
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-L950-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.8 lumens
Efficiency: N/A
Efficacy: 116.3 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

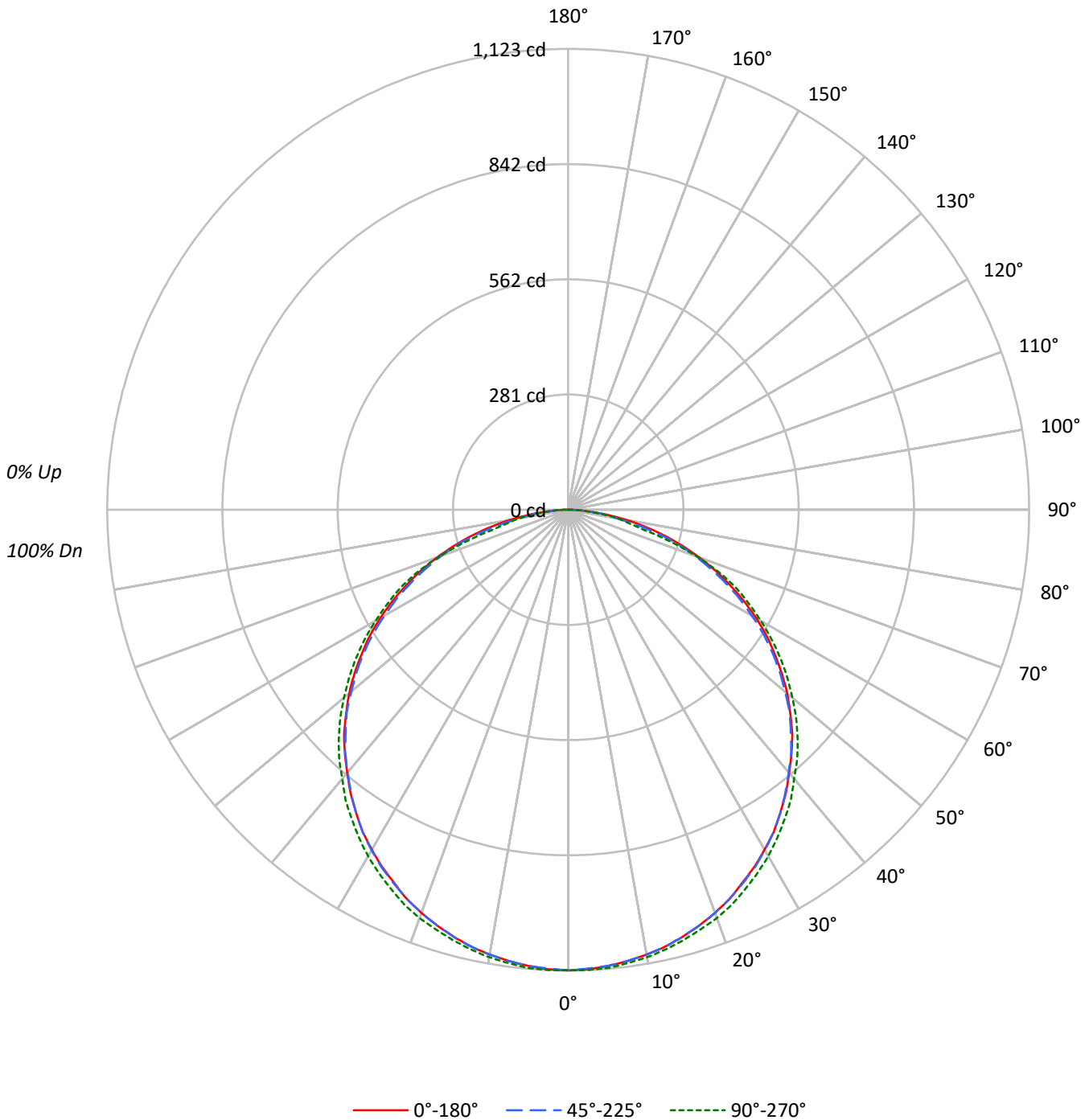
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3595	3595	3595
5°	3587	3587	3603
10°	3580	3580	3601
15°	3572	3572	3600
20°	3563	3563	3608
25°	3546	3552	3605
30°	3537	3543	3605
35°	3523	3523	3595
40°	3500	3493	3578
45°	3496	3473	3579
50°	3470	3436	3553
55°	3429	3391	3523
60°	3386	3310	3471
65°	3293	3205	3421
70°	3174	3080	3126
75°	2989	2803	2388
80°	2630	2196	2291
85°	1911	1848	1789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.2
10°-20°	304.7	9.2
20°-30°	465.2	14.0
30°-40°	566.6	17.1
40°-50°	596.4	18.0
50°-60°	549.1	16.6
60°-70°	427.4	12.9
70°-80°	237.2	7.2
80°-90°	61.0	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°	876.1	26.4
0°-40°	1442.7	43.5
0°-60°	2588.2	78.1
0°-90°	3313.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1116	1116	1116	1119	1121	106
15°	1077	1077	1077	1082	1086	304
25°	1003	1005	1005	1014	1020	463
35°	901	901	901	911	920	564
45°	772	767	767	779	790	594
55°	614	612	607	618	631	550
65°	435	430	423	436	451	431
75°	242	237	226	201	193	255
85°	52	49	50	49	49	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122.6	1122.6	1122.6	1122.6	1122.6
2.5°	1120.9	1119.2	1119.2	1122.6	1122.6
5°	1115.9	1115.9	1115.9	1119.2	1120.9
7.5°	1109.2	1109.2	1109.2	1114.2	1114.2
10°	1100.8	1099.1	1100.8	1104.1	1107.5
12.5°	1090.7	1089.0	1090.7	1094.1	1097.4
15°	1077.3	1077.3	1077.3	1082.3	1085.7
17.5°	1062.2	1060.5	1062.2	1067.2	1072.2
20°	1045.4	1045.4	1045.4	1052.1	1058.8
22.5°	1026.9	1025.3	1026.9	1035.3	1042.0
25°	1003.4	1005.1	1005.1	1013.5	1020.2
27.5°	981.6	980.0	983.3	990.0	998.4
30°	956.5	956.5	958.1	966.5	974.9
32.5°	931.3	929.6	931.3	939.7	948.1
35°	901.1	901.1	901.1	911.2	919.5
37.5°	870.9	869.2	869.2	879.3	891.0
40°	837.3	835.6	835.6	847.4	855.8
42.5°	805.4	803.8	803.8	813.8	825.6
45°	771.9	766.8	766.8	778.6	790.3
47.5°	733.3	729.9	731.6	741.7	753.4
50°	696.4	691.3	689.7	701.4	713.1
52.5°	656.1	654.4	649.4	659.5	672.9
55°	614.1	612.5	607.4	617.5	630.9
57.5°	573.9	568.8	563.8	572.2	587.3
60°	528.6	523.5	516.8	528.6	542.0
62.5°	483.3	476.6	471.5	481.6	496.7
65°	434.6	429.6	422.9	436.3	451.4
67.5°	389.3	384.3	375.9	387.6	397.7
70°	339.0	332.2	328.9	330.6	333.9
72.5°	290.3	286.9	281.9	268.5	265.1
75°	241.6	236.6	226.5	201.4	193.0
77.5°	193.0	189.6	171.2	149.3	149.3
80°	142.6	141.0	119.1	122.5	124.2
82.5°	97.3	94.0	87.3	85.6	85.6
85°	52.0	48.7	50.3	48.7	48.7
87.5°	20.1	20.1	21.8	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)