

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: P238816

Luminaire Tested: **22ENA-LD2-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238816
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: 22ENA-LD2-30-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331.1 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')
CIE Type: Direct

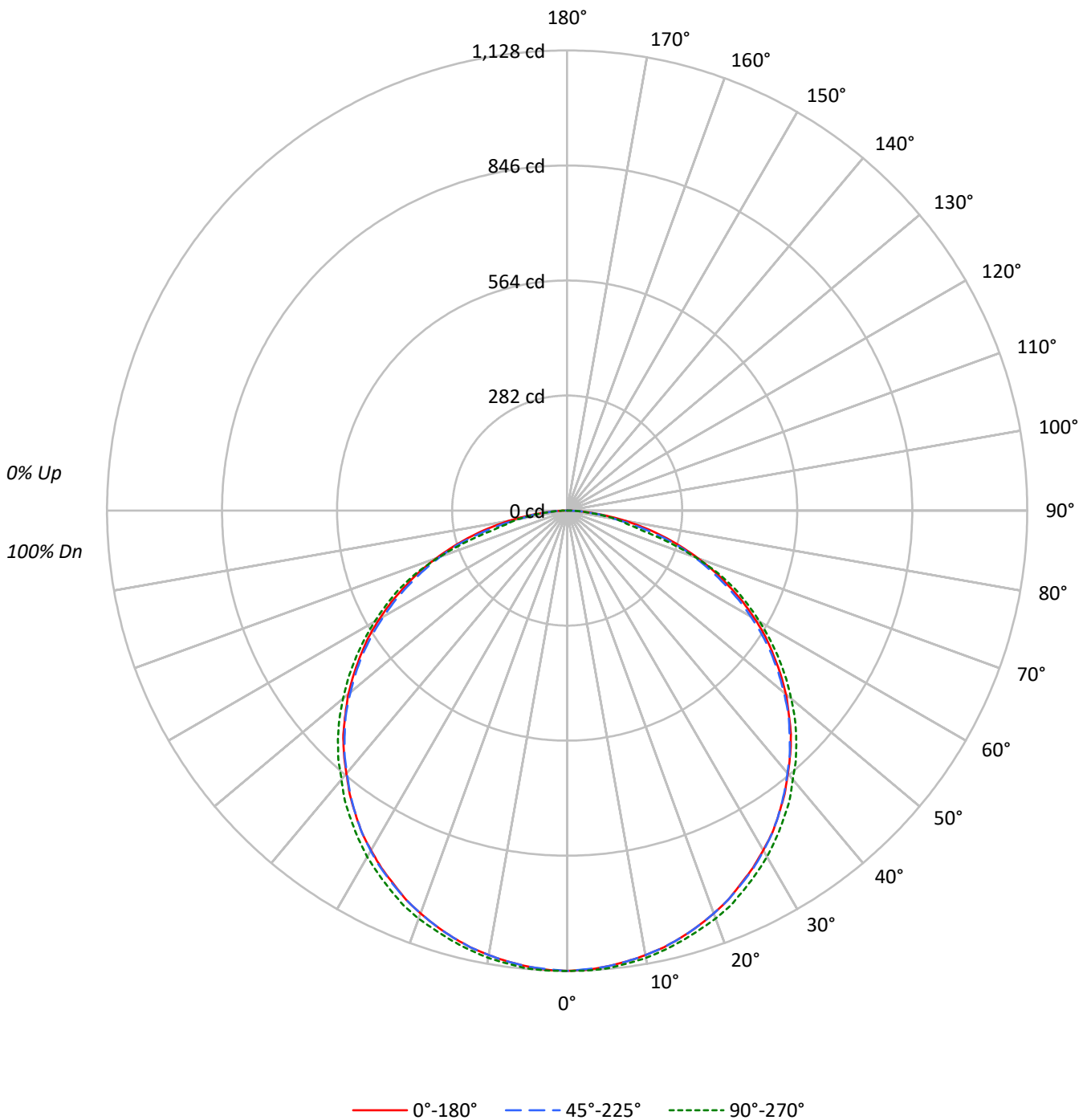
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3975	3975	3975
5°	3967	3967	3985
10°	3958	3958	3982
15°	3949	3949	3980
20°	3940	3940	3990
25°	3921	3927	3986
30°	3911	3918	3986
35°	3895	3895	3975
40°	3871	3863	3956
45°	3865	3841	3958
50°	3836	3800	3929
55°	3792	3750	3895
60°	3743	3660	3838
65°	3642	3543	3782
70°	3509	3405	3458
75°	3306	3099	2640
80°	2909	2430	2532
85°	2114	2045	1976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.2
10°-20°	306.3	9.2
20°-30°	467.6	14.0
30°-40°	569.6	17.1
40°-50°	599.5	18.0
50°-60°	552.0	16.6
60°-70°	429.6	12.9
70°-80°	238.5	7.2
80°-90°	61.3	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°	880.7	26.4
0°-40°	1450.2	43.5
0°-60°	2601.7	78.1
0°-90°	3331.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1122	1122	1122	1125	1127	107
15°	1083	1083	1083	1088	1091	306
25°	1009	1010	1010	1019	1026	466
35°	906	906	906	916	924	567
45°	776	771	771	783	794	597
55°	617	616	611	621	634	552
65°	437	432	425	439	454	433
75°	243	238	228	202	194	256
85°	52	49	51	49	49	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1126.8	1125.1	1125.1	1128.4	1128.4
5°	1121.7	1121.7	1121.7	1125.1	1126.8
7.5°	1115.0	1115.0	1115.0	1120.0	1120.0
10°	1106.5	1104.8	1106.5	1109.9	1113.3
12.5°	1096.4	1094.7	1096.4	1099.8	1103.1
15°	1082.9	1082.9	1082.9	1088.0	1091.3
17.5°	1067.7	1066.0	1067.7	1072.8	1077.8
20°	1050.9	1050.9	1050.9	1057.6	1064.4
22.5°	1032.3	1030.6	1032.3	1040.7	1047.5
25°	1008.7	1010.4	1010.4	1018.8	1025.6
27.5°	986.8	985.1	988.4	995.2	1003.6
30°	961.5	961.5	963.1	971.6	980.0
32.5°	936.2	934.5	936.2	944.6	953.0
35°	905.8	905.8	905.8	915.9	924.3
37.5°	875.4	873.7	873.7	883.9	895.7
40°	841.7	840.0	840.0	851.8	860.3
42.5°	809.6	808.0	808.0	818.1	829.9
45°	775.9	770.9	770.9	782.7	794.5
47.5°	737.1	733.7	735.4	745.6	757.4
50°	700.0	694.9	693.3	705.1	716.9
52.5°	659.5	657.8	652.8	662.9	676.4
55°	617.4	615.7	610.6	620.7	634.2
57.5°	576.9	571.8	566.8	575.2	590.4
60°	531.3	526.3	519.5	531.3	544.8
62.5°	485.8	479.0	474.0	484.1	499.3
65°	436.9	431.8	425.1	438.6	453.7
67.5°	391.3	386.3	377.8	389.6	399.8
70°	340.7	334.0	330.6	332.3	335.7
72.5°	291.8	288.4	283.4	269.9	266.5
75°	242.9	237.8	227.7	202.4	194.0
77.5°	194.0	190.6	172.1	150.1	150.1
80°	143.4	141.7	119.8	123.1	124.8
82.5°	97.8	94.5	87.7	86.0	86.0
85°	52.3	48.9	50.6	48.9	48.9
87.5°	20.2	20.2	21.9	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)