

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: P238863

Luminaire Tested: **22ENA-LD2-30-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238863
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
AIR-VENTED OPTION
Light Source: (168)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.9 lumens
Efficiency: N/A
Efficacy: 108.5 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

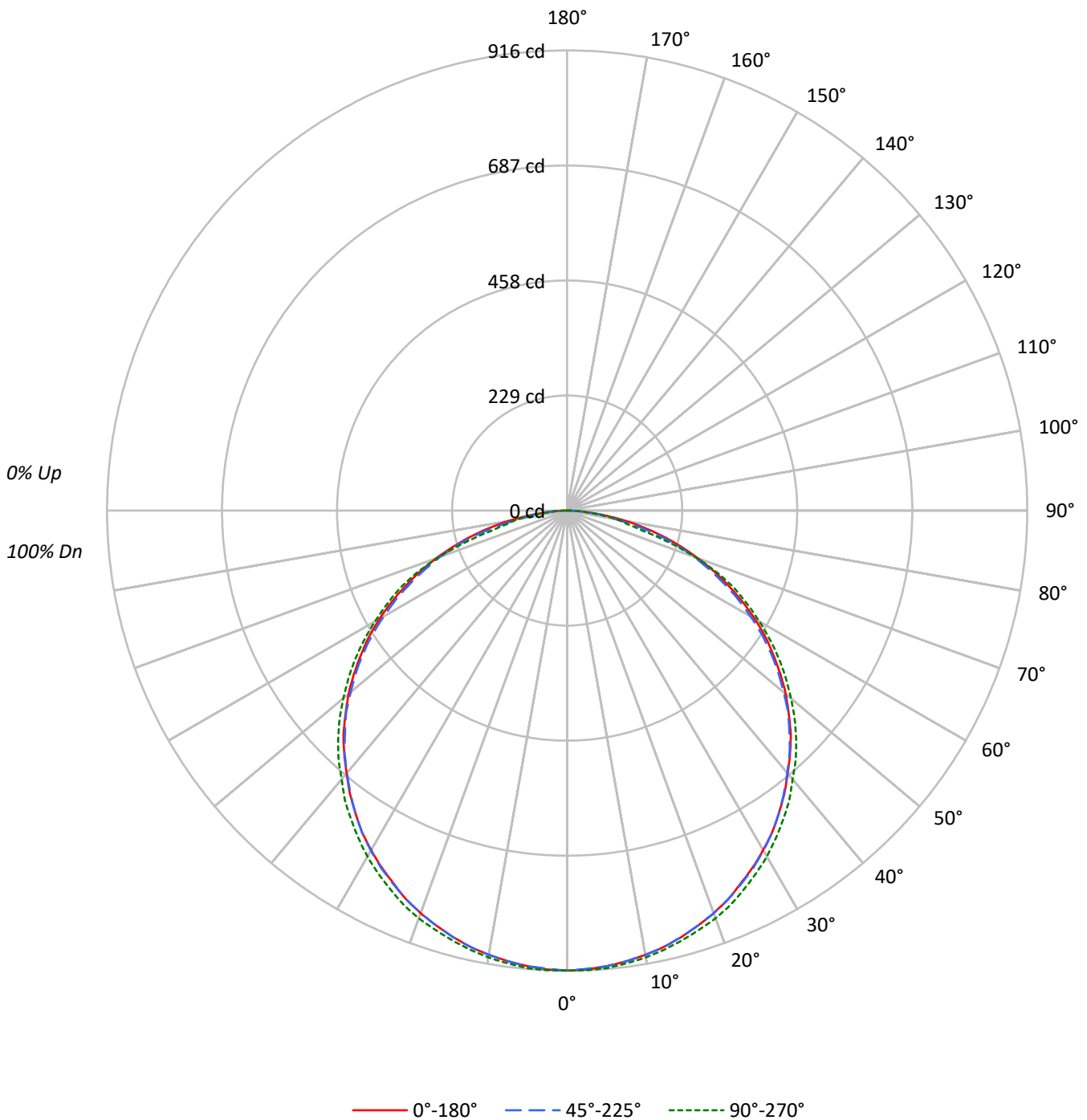
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P238863

CATALOG NUMBER: 22ENA-LD2-30-UNV-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P238863

CATALOG NUMBER: 22ENA-LD2-30-UNV-L940-CD1-U

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°	3225	3225	3225
5°	3218	3218	3233
10°	3212	3212	3231
15°	3205	3205	3229
20°	3197	3197	3237
25°	3181	3186	3234
30°	3173	3179	3235
35°	3161	3161	3225
40°	3140	3134	3210
45°	3137	3116	3211
50°	3113	3083	3188
55°	3076	3043	3161
60°	3037	2970	3115
65°	2955	2875	3069
70°	2848	2763	2806
75°	2683	2515	2142
80°	2359	1972	2055
85°	1714	1661	1605



TEST NUMBER: P238863

CATALOG NUMBER: 22ENA-LD2-30-UNV-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.2
10°-20°	248.6	9.2
20°-30°	379.4	14.0
30°-40°	462.1	17.1
40°-50°	486.4	18.0
50°-60°	447.9	16.6
60°-70°	348.6	12.9
70°-80°	193.5	7.2
80°-90°	49.7	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°	714.6	26.4
0°-40°	1176.7	43.5
0°-60°	2111.0	78.1
0°-90°	2702.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	910	910	910	913	914	86
15°	879	879	879	883	886	248
25°	818	820	820	827	832	378
35°	735	735	735	743	750	460
45°	630	626	626	635	645	485
55°	501	500	495	504	515	448
65°	354	350	345	356	368	351
75°	197	193	185	164	157	208
85°	42	40	41	40	40	53
90°	0	0	0	0	0	



TEST NUMBER: P238863

CATALOG NUMBER: 22ENA-LD2-30-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.6	915.6	915.6	915.6	915.6
2.5°	914.2	912.9	912.9	915.6	915.6
5°	910.1	910.1	910.1	912.9	914.2
7.5°	904.7	904.7	904.7	908.8	908.8
10°	897.8	896.5	897.8	900.6	903.3
12.5°	889.6	888.2	889.6	892.3	895.1
15°	878.7	878.7	878.7	882.8	885.5
17.5°	866.3	865.0	866.3	870.4	874.6
20°	852.7	852.7	852.7	858.1	863.6
22.5°	837.6	836.2	837.6	844.4	849.9
25°	818.4	819.8	819.8	826.7	832.1
27.5°	800.6	799.3	802.0	807.5	814.3
30°	780.1	780.1	781.5	788.3	795.2
32.5°	759.6	758.2	759.6	766.4	773.3
35°	735.0	735.0	735.0	743.2	750.0
37.5°	710.3	709.0	709.0	717.2	726.7
40°	682.9	681.6	681.6	691.2	698.0
42.5°	656.9	655.6	655.6	663.8	673.4
45°	629.6	625.5	625.5	635.0	644.6
47.5°	598.1	595.4	596.7	604.9	614.5
50°	568.0	563.9	562.5	572.1	581.7
52.5°	535.1	533.8	529.7	537.9	548.8
55°	500.9	499.5	495.4	503.7	514.6
57.5°	468.1	464.0	459.9	466.7	479.0
60°	431.1	427.0	421.5	431.1	442.1
62.5°	394.2	388.7	384.6	392.8	405.1
65°	354.5	350.4	344.9	355.8	368.2
67.5°	317.5	313.4	306.6	316.2	324.4
70°	276.5	271.0	268.3	269.6	272.4
72.5°	236.8	234.0	229.9	219.0	216.2
75°	197.1	193.0	184.8	164.2	157.4
77.5°	157.4	154.7	139.6	121.8	121.8
80°	116.3	115.0	97.2	99.9	101.3
82.5°	79.4	76.6	71.2	69.8	69.8
85°	42.4	39.7	41.1	39.7	39.7
87.5°	16.4	16.4	17.8	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)