

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: P238790

Luminaire Tested: **22EN-LD2-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238790  
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-LD2-30-UNV-L835-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3077.6 lumens  
Efficiency: N/A  
Efficacy: 123.6 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

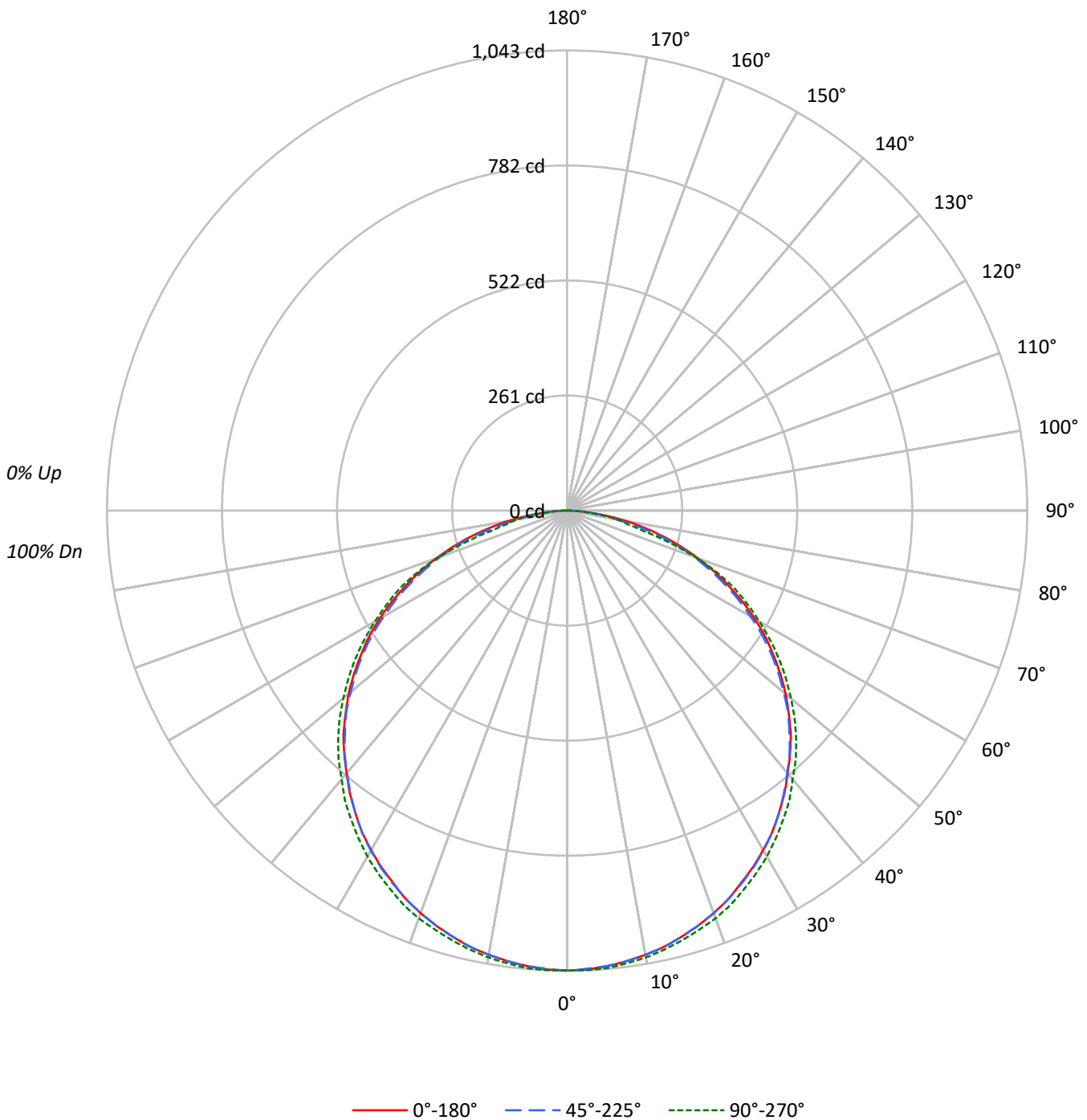
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P238790

CATALOG NUMBER: 22EN-LD2-30-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P238790

CATALOG NUMBER: 22EN-LD2-30-UNV-L835-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°	3339	3339	3339
5°	3332	3332	3347
10°	3324	3324	3345
15°	3317	3317	3343
20°	3309	3309	3351
25°	3293	3299	3348
30°	3285	3291	3348
35°	3272	3272	3339
40°	3251	3245	3323
45°	3247	3226	3324
50°	3222	3191	3300
55°	3185	3150	3272
60°	3144	3074	3224
65°	3058	2976	3177
70°	2948	2861	2904
75°	2777	2603	2217
80°	2444	2040	2126
85°	1775	1720	1661



TEST NUMBER: P238790

CATALOG NUMBER: 22EN-LD2-30-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.6	3.2
10°-20°	283.0	9.2
20°-30°	432.0	14.0
30°-40°	526.2	17.1
40°-50°	553.9	18.0
50°-60°	510.0	16.6
60°-70°	396.9	12.9
70°-80°	220.3	7.2
80°-90°	56.6	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°	813.7	26.4
0°-40°	1339.9	43.5
0°-60°	2403.8	78.1
0°-90°	3077.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3077.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1043	1043	1043	1043	1043	
5°	1036	1036	1036	1040	1041	98
15°	1000	1000	1000	1005	1008	282
25°	932	934	934	941	948	430
35°	837	837	837	846	854	524
45°	717	712	712	723	734	552
55°	570	569	564	574	586	510
65°	404	399	393	405	419	400
75°	224	220	210	187	179	236
85°	48	45	47	45	45	61
90°	0	0	0	0	0	



TEST NUMBER: P238790

CATALOG NUMBER: 22EN-LD2-30-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.6	1042.6	1042.6	1042.6	1042.6
2.5°	1041.0	1039.5	1039.5	1042.6	1042.6
5°	1036.4	1036.4	1036.4	1039.5	1041.0
7.5°	1030.1	1030.1	1030.1	1034.8	1034.8
10°	1022.3	1020.8	1022.3	1025.4	1028.6
12.5°	1013.0	1011.4	1013.0	1016.1	1019.2
15°	1000.5	1000.5	1000.5	1005.2	1008.3
17.5°	986.5	984.9	986.5	991.2	995.8
20°	970.9	970.9	970.9	977.1	983.4
22.5°	953.8	952.2	953.8	961.5	967.8
25°	931.9	933.5	933.5	941.3	947.5
27.5°	911.7	910.1	913.2	919.5	927.3
30°	888.3	888.3	889.9	897.7	905.4
32.5°	864.9	863.4	864.9	872.7	880.5
35°	836.9	836.9	836.9	846.2	854.0
37.5°	808.8	807.3	807.3	816.6	827.5
40°	777.7	776.1	776.1	787.0	794.8
42.5°	748.0	746.5	746.5	755.8	766.7
45°	716.9	712.2	712.2	723.1	734.0
47.5°	681.0	677.9	679.5	688.8	699.7
50°	646.7	642.1	640.5	651.4	662.3
52.5°	609.3	607.8	603.1	612.5	624.9
55°	570.4	568.8	564.2	573.5	586.0
57.5°	533.0	528.3	523.6	531.4	545.4
60°	490.9	486.2	480.0	490.9	503.4
62.5°	448.8	442.6	437.9	447.3	461.3
65°	403.6	399.0	392.7	405.2	419.2
67.5°	361.6	356.9	349.1	360.0	369.3
70°	314.8	308.6	305.5	307.0	310.1
72.5°	269.6	266.5	261.8	249.3	246.2
75°	224.4	219.7	210.4	187.0	179.2
77.5°	179.2	176.1	159.0	138.7	138.7
80°	132.5	130.9	110.6	113.8	115.3
82.5°	90.4	87.3	81.0	79.5	79.5
85°	48.3	45.2	46.8	45.2	45.2
87.5°	18.7	18.7	20.3	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)