

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: P238843

Luminaire Tested: **22EN-LD2-34-UNV-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238843  
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-L940-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3125.9 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

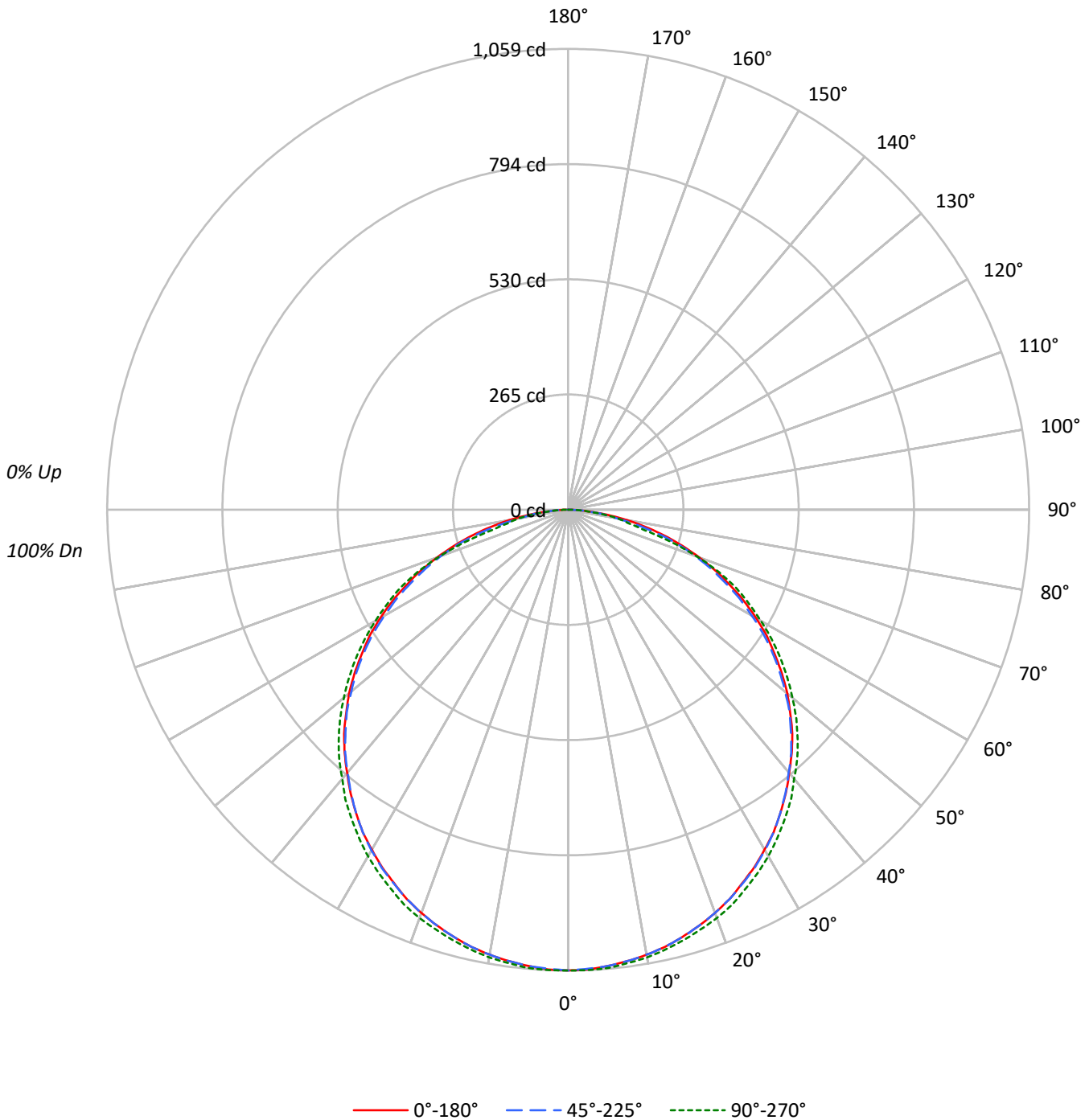
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3391	3391	3391
5°	3384	3384	3399
10°	3377	3377	3397
15°	3369	3369	3395
20°	3361	3361	3404
25°	3345	3350	3401
30°	3336	3342	3401
35°	3323	3323	3391
40°	3302	3296	3375
45°	3298	3276	3376
50°	3273	3241	3352
55°	3234	3199	3323
60°	3194	3122	3275
65°	3107	3023	3227
70°	2993	2905	2949
75°	2820	2644	2252
80°	2481	2073	2160
85°	1804	1745	1687



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	3.2
10°-20°	287.5	9.2
20°-30°	438.8	14.0
30°-40°	534.5	17.1
40°-50°	562.6	18.0
50°-60°	518.0	16.6
60°-70°	403.2	12.9
70°-80°	223.8	7.2
80°-90°	57.5	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°	826.4	26.4
0°-40°	1360.9	43.5
0°-60°	2441.5	78.1
0°-90°	3125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1053	1053	1053	1056	1057	100
15°	1016	1016	1016	1021	1024	287
25°	947	948	948	956	962	437
35°	850	850	850	860	867	532
45°	728	723	723	734	746	561
55°	579	578	573	582	595	518
65°	410	405	399	412	426	406
75°	228	223	214	190	182	240
85°	49	46	48	46	46	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1058.9	1058.9	1058.9	1058.9	1058.9
2.5°	1057.4	1055.8	1055.8	1058.9	1058.9
5°	1052.6	1052.6	1052.6	1055.8	1057.4
7.5°	1046.3	1046.3	1046.3	1051.0	1051.0
10°	1038.4	1036.8	1038.4	1041.5	1044.7
12.5°	1028.9	1027.3	1028.9	1032.0	1035.2
15°	1016.2	1016.2	1016.2	1021.0	1024.1
17.5°	1002.0	1000.4	1002.0	1006.7	1011.5
20°	986.1	986.1	986.1	992.5	998.8
22.5°	968.7	967.1	968.7	976.6	983.0
25°	946.6	948.1	948.1	956.1	962.4
27.5°	926.0	924.4	927.6	933.9	941.8
30°	902.2	902.2	903.8	911.7	919.6
32.5°	878.5	876.9	878.5	886.4	894.3
35°	850.0	850.0	850.0	859.5	867.4
37.5°	821.5	819.9	819.9	829.4	840.5
40°	789.9	788.3	788.3	799.4	807.3
42.5°	759.8	758.2	758.2	767.7	778.8
45°	728.1	723.4	723.4	734.5	745.5
47.5°	691.7	688.5	690.1	699.6	710.7
50°	656.9	652.1	650.6	661.6	672.7
52.5°	618.9	617.3	612.6	622.1	634.7
55°	579.3	577.7	573.0	582.5	595.2
57.5°	541.3	536.6	531.8	539.8	554.0
60°	498.6	493.9	487.5	498.6	511.3
62.5°	455.9	449.5	444.8	454.3	468.5
65°	410.0	405.2	398.9	411.5	425.8
67.5°	367.2	362.5	354.6	365.6	375.1
70°	319.7	313.4	310.2	311.8	315.0
72.5°	273.8	270.7	265.9	253.3	250.1
75°	227.9	223.2	213.7	189.9	182.0
77.5°	182.0	178.9	161.5	140.9	140.9
80°	134.5	133.0	112.4	115.5	117.1
82.5°	91.8	88.6	82.3	80.7	80.7
85°	49.1	45.9	47.5	45.9	45.9
87.5°	19.0	19.0	20.6	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)