

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: P238788

Luminaire Tested: **22EN-LD2-25-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238788  
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-LD2-25-UNV-L850-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
STANDARD OPTION  
Light Source: (168)5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2939.6 lumens  
Efficiency: N/A  
Efficacy: 147.0 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

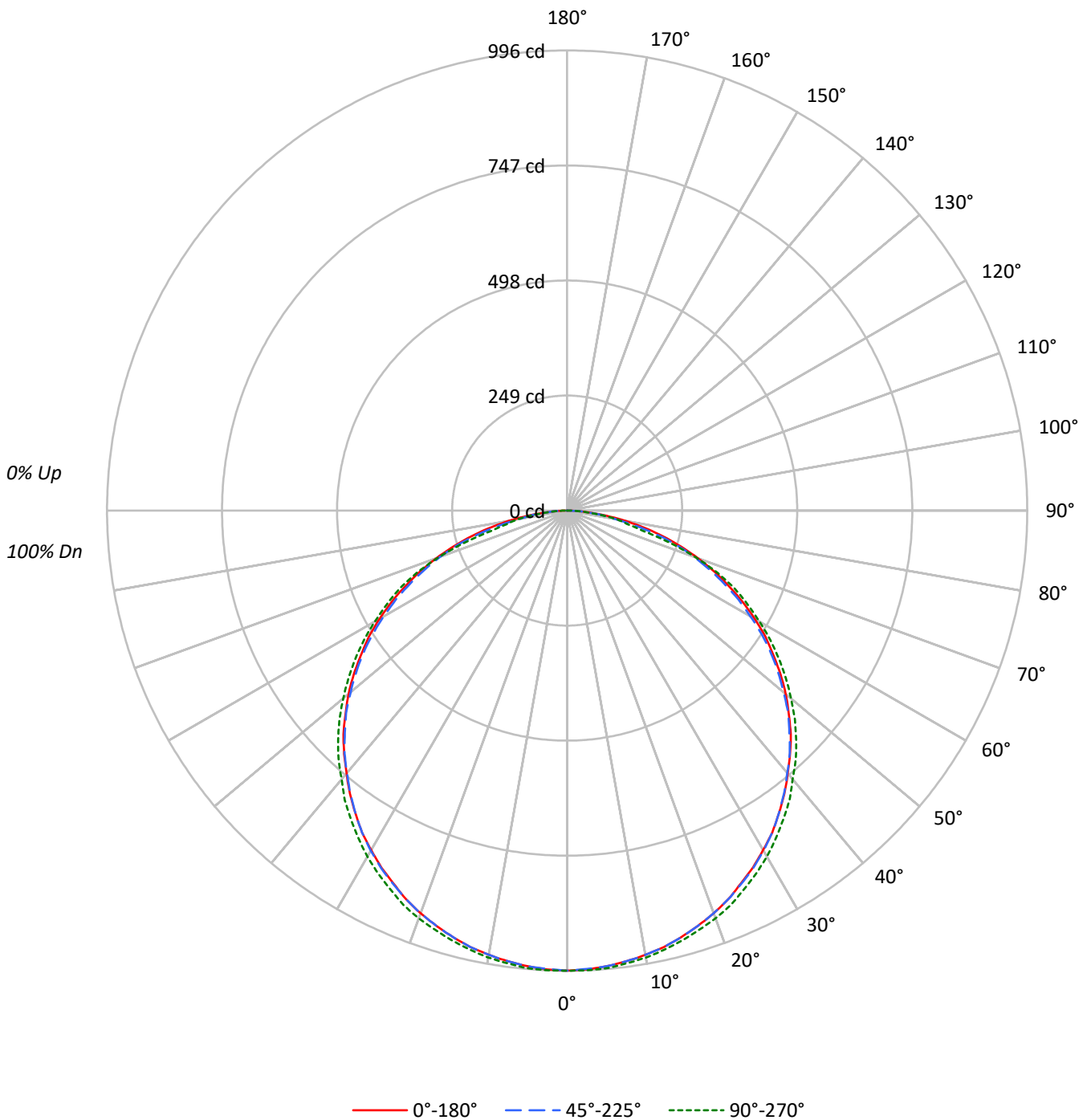
Input Watts (W): 20  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37				37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33				33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26				26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24				24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3189	3189	3189
5°	3182	3182	3196
10°	3175	3175	3195
15°	3168	3168	3193
20°	3161	3161	3201
25°	3145	3151	3198
30°	3138	3143	3198
35°	3125	3125	3189
40°	3105	3099	3174
45°	3101	3081	3175
50°	3077	3048	3152
55°	3042	3009	3125
60°	3003	2937	3080
65°	2921	2842	3034
70°	2816	2732	2773
75°	2652	2487	2118
80°	2333	1949	2032
85°	1694	1642	1587



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	3.2
10°-20°	270.3	9.2
20°-30°	412.7	14.0
30°-40°	502.6	17.1
40°-50°	529.1	18.0
50°-60°	487.1	16.6
60°-70°	379.1	12.9
70°-80°	210.4	7.2
80°-90°	54.1	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°	777.2	26.4
0°-40°	1279.8	43.5
0°-60°	2296.0	78.1
0°-90°	2939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	990	990	990	993	994	94
15°	956	956	956	960	963	270
25°	890	892	892	899	905	411
35°	799	799	799	808	816	500
45°	685	680	680	691	701	527
55°	545	543	539	548	560	488
65°	386	381	375	387	400	382
75°	214	210	201	179	171	226
85°	46	43	45	43	43	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.8	995.8	995.8	995.8	995.8
2.5°	994.3	992.9	992.9	995.8	995.8
5°	989.9	989.9	989.9	992.9	994.3
7.5°	983.9	983.9	983.9	988.4	988.4
10°	976.5	975.0	976.5	979.5	982.4
12.5°	967.5	966.1	967.5	970.5	973.5
15°	955.6	955.6	955.6	960.1	963.1
17.5°	942.2	940.8	942.2	946.7	951.2
20°	927.4	927.4	927.4	933.3	939.3
22.5°	911.0	909.5	911.0	918.4	924.4
25°	890.1	891.6	891.6	899.1	905.0
27.5°	870.8	869.3	872.3	878.2	885.7
30°	848.5	848.5	850.0	857.4	864.8
32.5°	826.1	824.6	826.1	833.6	841.0
35°	799.3	799.3	799.3	808.3	815.7
37.5°	772.6	771.1	771.1	780.0	790.4
40°	742.8	741.3	741.3	751.7	759.2
42.5°	714.5	713.0	713.0	721.9	732.4
45°	684.7	680.3	680.3	690.7	701.1
47.5°	650.5	647.5	649.0	657.9	668.4
50°	617.7	613.3	611.8	622.2	632.6
52.5°	582.0	580.5	576.1	585.0	596.9
55°	544.8	543.3	538.9	547.8	559.7
57.5°	509.1	504.6	500.1	507.6	521.0
60°	468.9	464.4	458.5	468.9	480.8
62.5°	428.7	422.7	418.3	427.2	440.6
65°	385.5	381.1	375.1	387.0	400.4
67.5°	345.3	340.9	333.4	343.9	352.8
70°	300.7	294.7	291.8	293.2	296.2
72.5°	257.5	254.5	250.1	238.2	235.2
75°	214.3	209.9	201.0	178.6	171.2
77.5°	171.2	168.2	151.8	132.5	132.5
80°	126.5	125.0	105.7	108.7	110.2
82.5°	86.3	83.4	77.4	75.9	75.9
85°	46.1	43.2	44.7	43.2	43.2
87.5°	17.9	17.9	19.4	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)