

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: P238791

Luminaire Tested: **22EN-LD2-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238791
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.5 lumens
Efficiency: N/A
Efficacy: 126.1 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

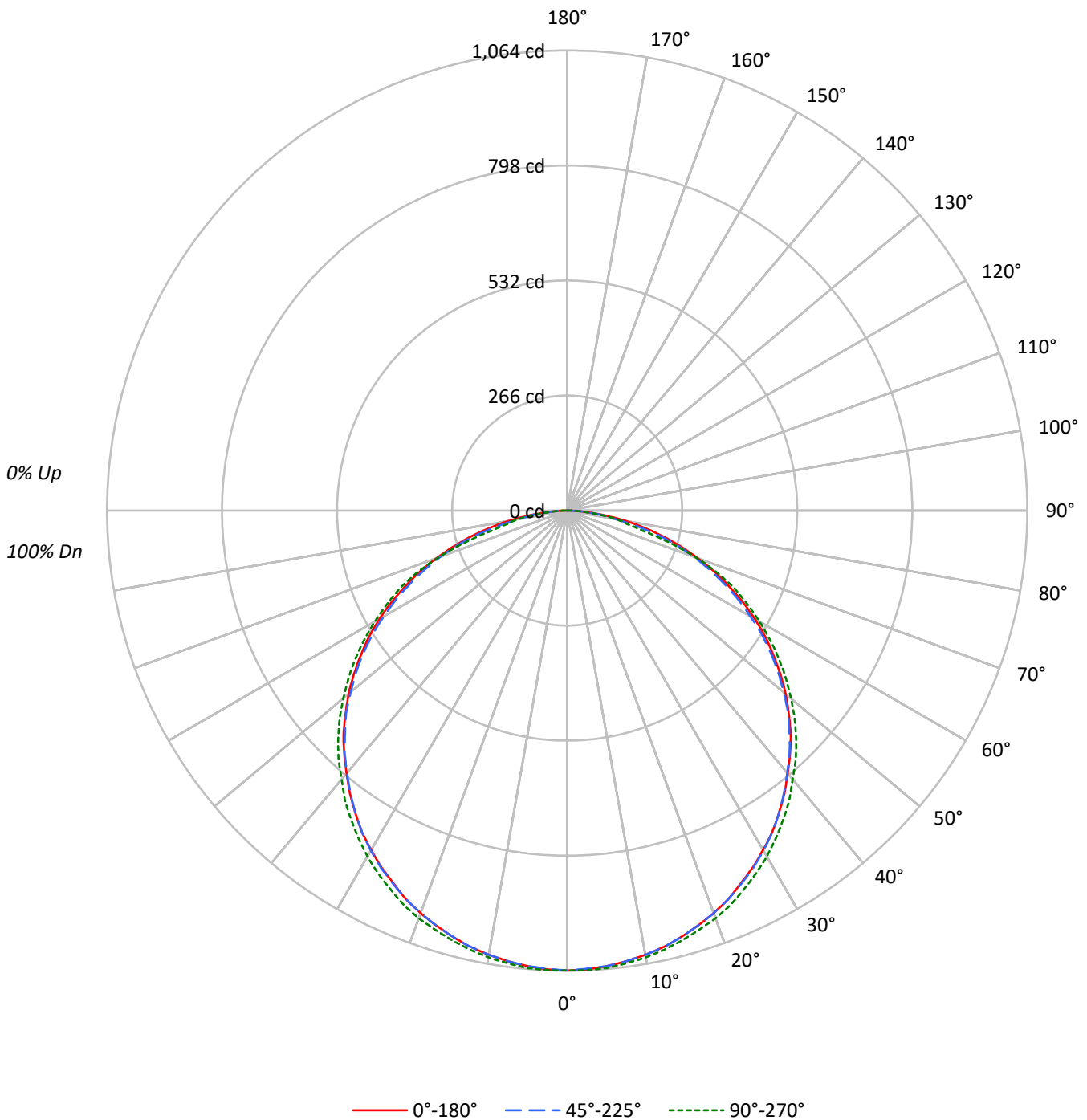
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3406	3406	3406
5°	3399	3399	3414
10°	3391	3391	3412
15°	3384	3384	3410
20°	3375	3375	3419
25°	3359	3365	3415
30°	3351	3357	3415
35°	3338	3338	3406
40°	3316	3310	3390
45°	3312	3290	3391
50°	3287	3255	3366
55°	3248	3213	3337
60°	3208	3136	3289
65°	3120	3036	3240
70°	3007	2918	2963
75°	2832	2655	2262
80°	2492	2082	2169
85°	1812	1753	1694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	288.7	9.2
20°-30°	440.7	14.0
30°-40°	536.8	17.1
40°-50°	565.0	18.0
50°-60°	520.2	16.6
60°-70°	404.9	12.9
70°-80°	224.8	7.2
80°-90°	57.8	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°	830.0	26.4
0°-40°	1366.8	43.5
0°-60°	2452.0	78.1
0°-90°	3139.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1057	1057	1057	1060	1062	100
15°	1021	1021	1021	1025	1028	288
25°	951	952	952	960	966	439
35°	854	854	854	863	871	534
45°	731	726	726	738	749	563
55°	582	580	576	585	598	521
65°	412	407	401	413	428	408
75°	229	224	215	191	183	241
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°	1063.5	1063.5	1063.5	1063.5	1063.5
2.5°	1061.9	1060.3	1060.3	1063.5	1063.5
5°	1057.2	1057.2	1057.2	1060.3	1061.9
7.5°	1050.8	1050.8	1050.8	1055.6	1055.6
10°	1042.9	1041.3	1042.9	1046.0	1049.2
12.5°	1033.3	1031.7	1033.3	1036.5	1039.7
15°	1020.6	1020.6	1020.6	1025.4	1028.5
17.5°	1006.3	1004.7	1006.3	1011.1	1015.8
20°	990.4	990.4	990.4	996.8	1003.1
22.5°	972.9	971.3	972.9	980.9	987.2
25°	950.7	952.2	952.2	960.2	966.5
27.5°	930.0	928.4	931.6	937.9	945.9
30°	906.1	906.1	907.7	915.7	923.6
32.5°	882.3	880.7	882.3	890.2	898.2
35°	853.7	853.7	853.7	863.2	871.2
37.5°	825.1	823.5	823.5	833.0	844.1
40°	793.3	791.7	791.7	802.8	810.8
42.5°	763.1	761.5	761.5	771.0	782.1
45°	731.3	726.5	726.5	737.6	748.8
47.5°	694.7	691.5	693.1	702.7	713.8
50°	659.7	655.0	653.4	664.5	675.6
52.5°	621.6	620.0	615.2	624.8	637.5
55°	581.8	580.2	575.5	585.0	597.7
57.5°	543.7	538.9	534.1	542.1	556.4
60°	500.8	496.0	489.6	500.8	513.5
62.5°	457.8	451.5	446.7	456.2	470.6
65°	411.7	407.0	400.6	413.3	427.6
67.5°	368.8	364.0	356.1	367.2	376.8
70°	321.1	314.8	311.6	313.2	316.4
72.5°	275.0	271.8	267.1	254.4	251.2
75°	228.9	224.2	214.6	190.8	182.8
77.5°	182.8	179.6	162.2	141.5	141.5
80°	135.1	133.5	112.9	116.0	117.6
82.5°	92.2	89.0	82.7	81.1	81.1
85°	49.3	46.1	47.7	46.1	46.1
87.5°	19.1	19.1	20.7	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)