

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: P238792

Luminaire Tested: **22EN-LD2-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238792
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-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: 3416.5 lumens
Efficiency: N/A
Efficacy: 137.2 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

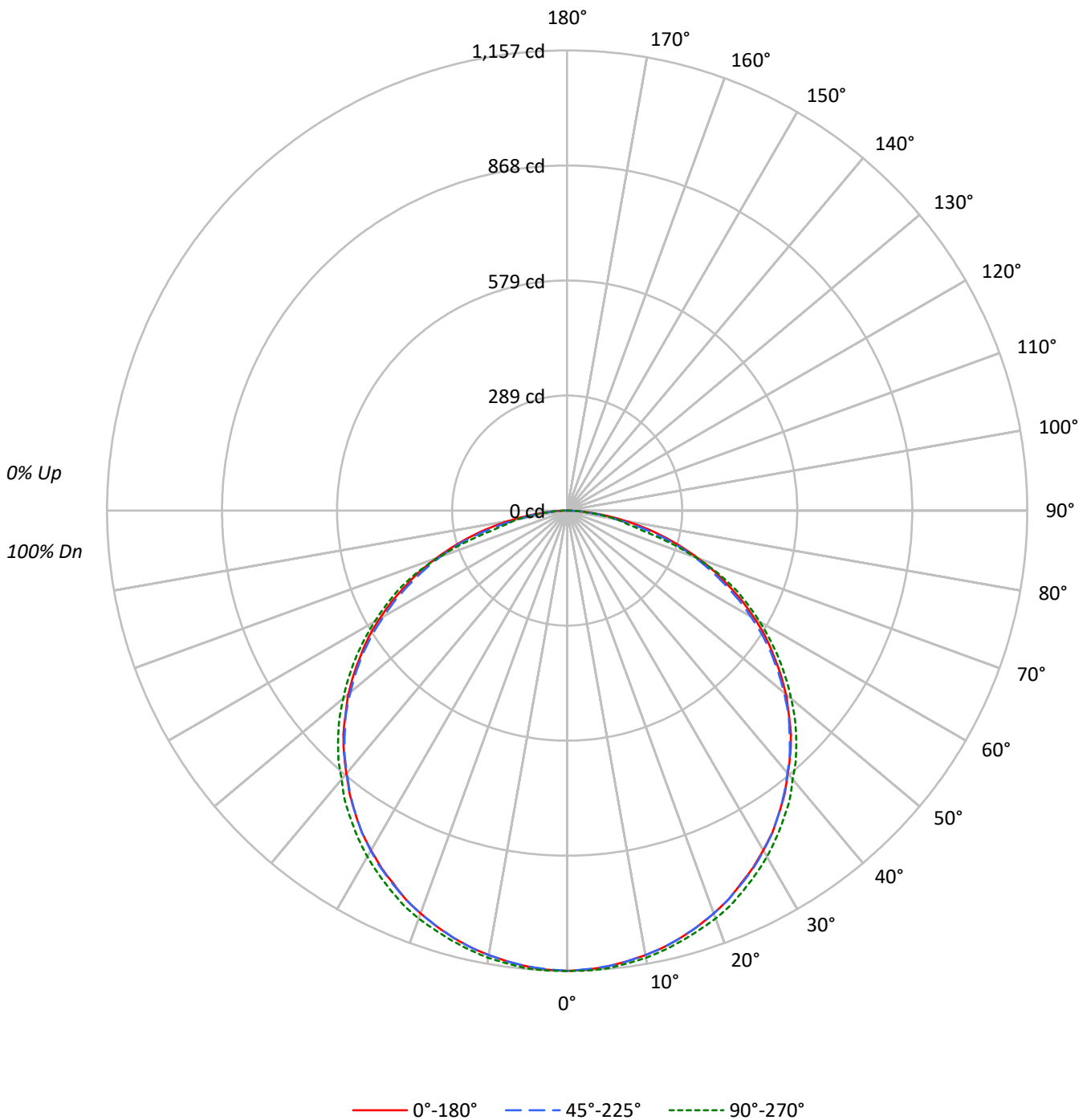
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3707	3707	3707
5°	3699	3699	3715
10°	3691	3691	3713
15°	3682	3682	3711
20°	3673	3673	3720
25°	3656	3662	3717
30°	3647	3653	3717
35°	3632	3632	3707
40°	3609	3602	3689
45°	3604	3581	3690
50°	3577	3542	3663
55°	3535	3497	3632
60°	3491	3413	3579
65°	3396	3304	3527
70°	3273	3175	3224
75°	3082	2890	2462
80°	2713	2265	2361
85°	1970	1907	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.2
10°-20°	314.2	9.2
20°-30°	479.6	14.0
30°-40°	584.2	17.1
40°-50°	614.9	18.0
50°-60°	566.1	16.6
60°-70°	440.6	12.9
70°-80°	244.6	7.2
80°-90°	62.9	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°	903.3	26.4
0°-40°	1487.4	43.5
0°-60°	2668.4	78.1
0°-90°	3416.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3416.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1150	1150	1150	1154	1156	109
15°	1111	1111	1111	1116	1119	314
25°	1035	1036	1036	1045	1052	478
35°	929	929	929	939	948	581
45°	796	791	791	803	815	613
55°	633	632	626	637	650	567
65°	448	443	436	450	465	444
75°	249	244	234	208	199	263
85°	54	50	52	50	50	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.4	1157.4	1157.4	1157.4	1157.4
2.5°	1155.7	1153.9	1153.9	1157.4	1157.4
5°	1150.5	1150.5	1150.5	1153.9	1155.7
7.5°	1143.5	1143.5	1143.5	1148.7	1148.7
10°	1134.9	1133.2	1134.9	1138.4	1141.8
12.5°	1124.5	1122.8	1124.5	1128.0	1131.4
15°	1110.7	1110.7	1110.7	1115.9	1119.3
17.5°	1095.1	1093.4	1095.1	1100.3	1105.5
20°	1077.8	1077.8	1077.8	1084.7	1091.6
22.5°	1058.8	1057.0	1058.8	1067.4	1074.3
25°	1034.6	1036.3	1036.3	1044.9	1051.9
27.5°	1012.1	1010.3	1013.8	1020.7	1029.4
30°	986.1	986.1	987.8	996.5	1005.1
32.5°	960.2	958.4	960.2	968.8	977.5
35°	929.0	929.0	929.0	939.4	948.1
37.5°	897.9	896.2	896.2	906.5	918.6
40°	863.3	861.6	861.6	873.7	882.3
42.5°	830.4	828.7	828.7	839.1	851.2
45°	795.8	790.6	790.6	802.7	814.8
47.5°	756.0	752.6	754.3	764.7	776.8
50°	718.0	712.8	711.0	723.1	735.3
52.5°	676.4	674.7	669.5	679.9	693.7
55°	633.2	631.5	626.3	636.6	650.5
57.5°	591.7	586.5	581.3	589.9	605.5
60°	545.0	539.8	532.8	545.0	558.8
62.5°	498.2	491.3	486.1	496.5	512.1
65°	448.1	442.9	436.0	449.8	465.4
67.5°	401.4	396.2	387.5	399.6	410.0
70°	349.5	342.5	339.1	340.8	344.3
72.5°	299.3	295.8	290.6	276.8	273.3
75°	249.1	243.9	233.6	207.6	199.0
77.5°	199.0	195.5	176.5	154.0	154.0
80°	147.1	145.3	122.8	126.3	128.0
82.5°	100.3	96.9	90.0	88.2	88.2
85°	53.6	50.2	51.9	50.2	50.2
87.5°	20.8	20.8	22.5	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)