

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: P238841

Luminaire Tested: **22EN-LD2-34-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238841
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-L930-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2909.1 lumens
Efficiency: N/A
Efficacy: 102.1 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

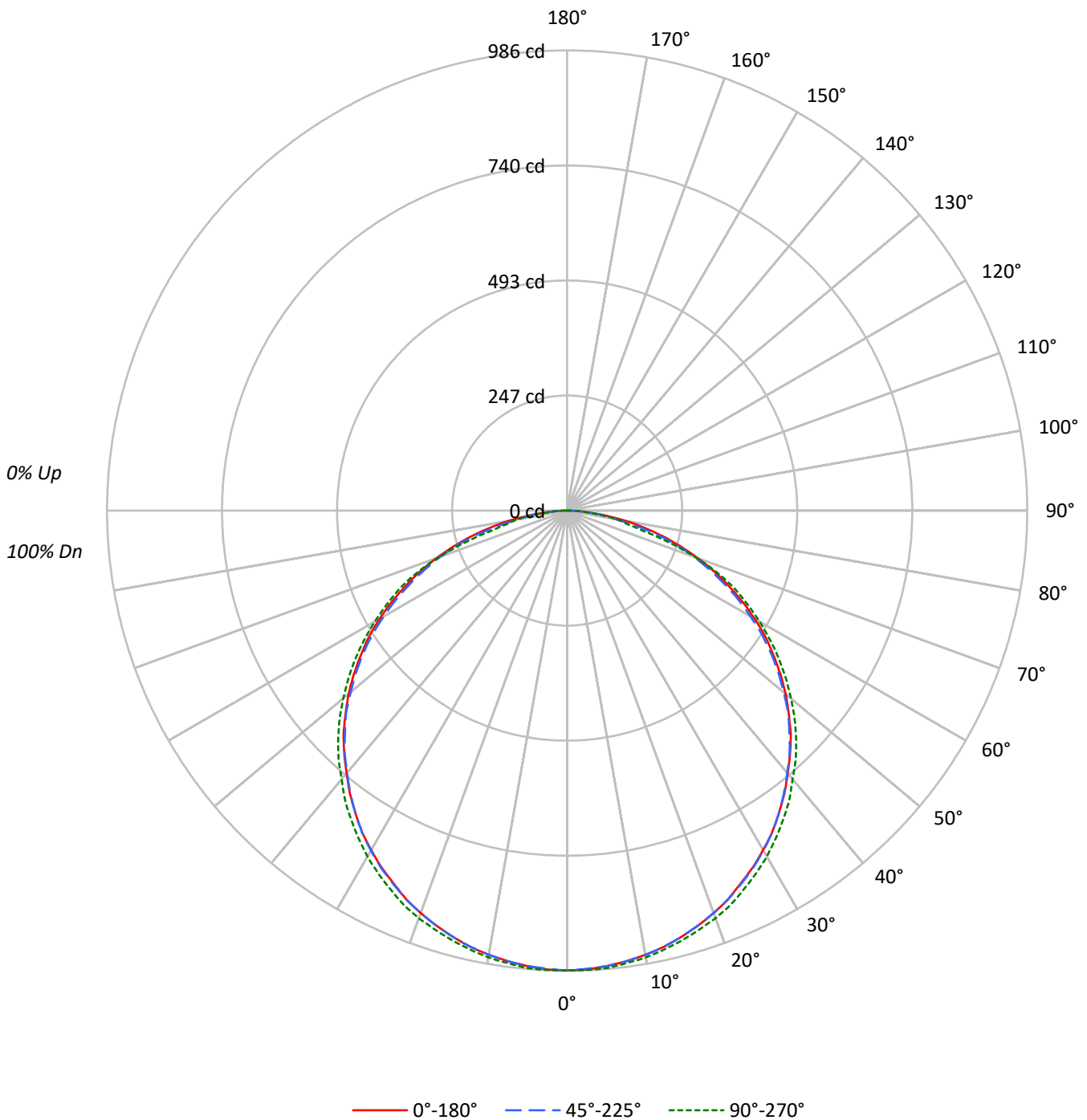
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3156	3156	3156
5°	3149	3149	3163
10°	3143	3143	3162
15°	3135	3135	3160
20°	3128	3128	3168
25°	3113	3118	3165
30°	3105	3110	3165
35°	3093	3093	3156
40°	3073	3067	3141
45°	3069	3049	3142
50°	3046	3016	3119
55°	3011	2978	3093
60°	2972	2906	3047
65°	2891	2813	3003
70°	2787	2703	2744
75°	2624	2461	2096
80°	2309	1929	2010
85°	1679	1624	1569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.2
10°-20°	267.5	9.2
20°-30°	408.4	14.0
30°-40°	497.4	17.1
40°-50°	523.6	18.0
50°-60°	482.1	16.6
60°-70°	375.2	12.9
70°-80°	208.3	7.2
80°-90°	53.5	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°	769.1	26.4
0°-40°	1266.5	43.5
0°-60°	2272.2	78.1
0°-90°	2909.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2909.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	980	980	980	983	984	93
15°	946	946	946	950	953	267
25°	881	882	882	890	896	407
35°	791	791	791	800	807	495
45°	678	673	673	684	694	522
55°	539	538	533	542	554	482
65°	382	377	371	383	396	378
75°	212	208	199	177	169	224
85°	46	43	44	43	43	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	985.5	985.5	985.5	985.5	985.5
2.5°	984.0	982.6	982.6	985.5	985.5
5°	979.6	979.6	979.6	982.6	984.0
7.5°	973.7	973.7	973.7	978.1	978.1
10°	966.4	964.9	966.4	969.3	972.3
12.5°	957.5	956.0	957.5	960.5	963.4
15°	945.7	945.7	945.7	950.2	953.1
17.5°	932.5	931.0	932.5	936.9	941.3
20°	917.7	917.7	917.7	923.6	929.5
22.5°	901.5	900.1	901.5	908.9	914.8
25°	880.9	882.4	882.4	889.8	895.6
27.5°	861.8	860.3	863.2	869.1	876.5
30°	839.7	839.7	841.1	848.5	855.9
32.5°	817.6	816.1	817.6	824.9	832.3
35°	791.1	791.1	791.1	799.9	807.3
37.5°	764.5	763.1	763.1	771.9	782.2
40°	735.1	733.6	733.6	743.9	751.3
42.5°	707.1	705.6	705.6	714.5	724.8
45°	677.6	673.2	673.2	683.5	693.8
47.5°	643.7	640.8	642.3	651.1	661.4
50°	611.3	606.9	605.4	615.8	626.1
52.5°	576.0	574.5	570.1	578.9	590.7
55°	539.2	537.7	533.3	542.1	553.9
57.5°	503.8	499.4	495.0	502.3	515.6
60°	464.0	459.6	453.7	464.0	475.8
62.5°	424.3	418.4	413.9	422.8	436.0
65°	381.5	377.1	371.2	383.0	396.3
67.5°	341.8	337.3	330.0	340.3	349.1
70°	297.6	291.7	288.7	290.2	293.1
72.5°	254.8	251.9	247.5	235.7	232.8
75°	212.1	207.7	198.9	176.8	169.4
77.5°	169.4	166.5	150.3	131.1	131.1
80°	125.2	123.7	104.6	107.5	109.0
82.5°	85.4	82.5	76.6	75.1	75.1
85°	45.7	42.7	44.2	42.7	42.7
87.5°	17.7	17.7	19.2	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)