

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: P238794

Luminaire Tested: **22EN-LD2-34-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238794
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-L835-CD1-U
Description: METALUX ENCOUNTER 2X2 LED TROFFER
STANDARD OPTION
Light Source: (168)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3471.1 lumens
Efficiency: N/A
Efficacy: 121.8 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

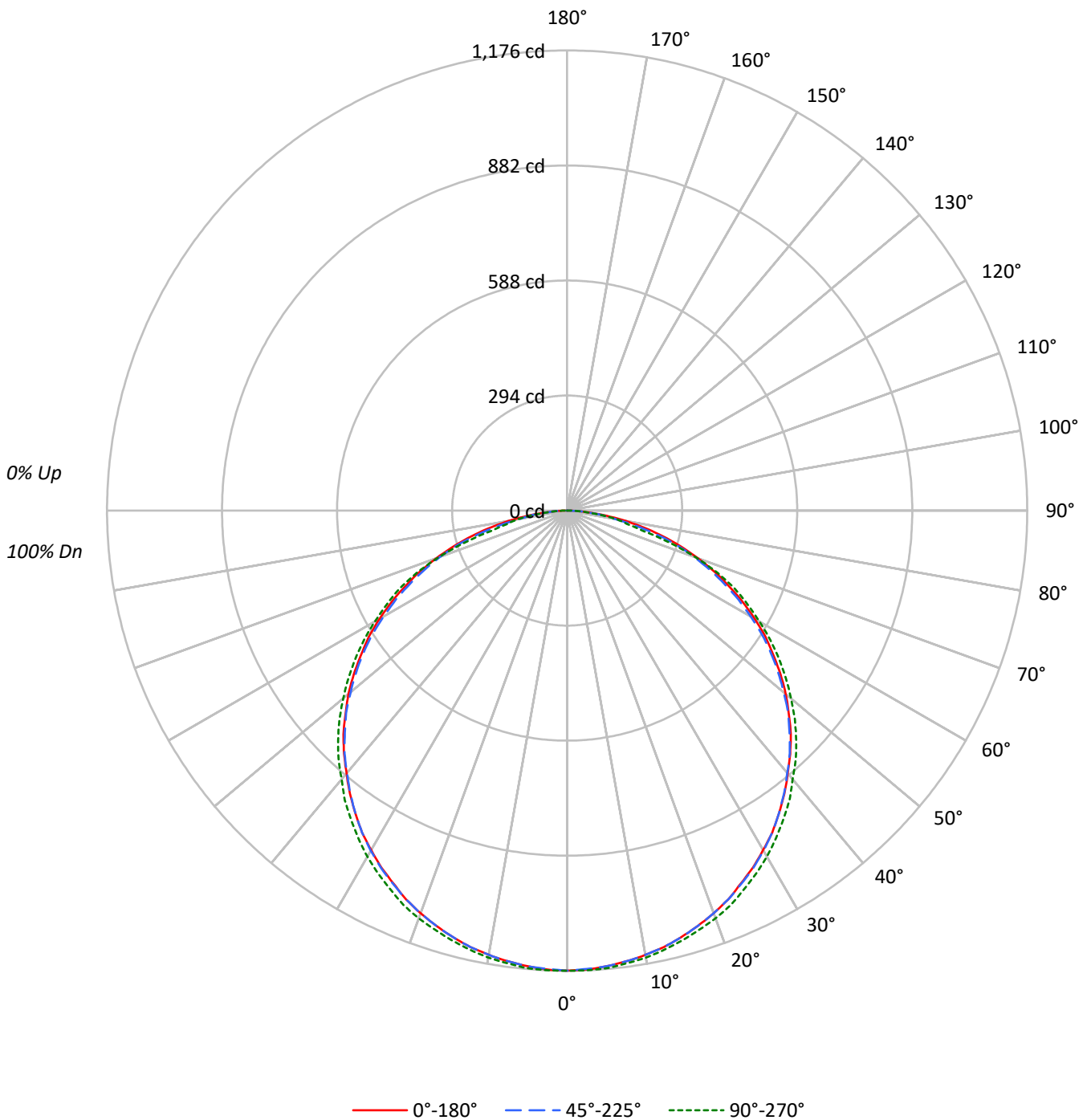
Input Watts (W): 28.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3766	3766	3766
5°	3757	3757	3774
10°	3749	3749	3773
15°	3741	3741	3770
20°	3732	3732	3780
25°	3714	3720	3776
30°	3705	3711	3776
35°	3690	3690	3766
40°	3667	3659	3747
45°	3662	3638	3750
50°	3634	3599	3722
55°	3592	3553	3690
60°	3546	3468	3636
65°	3449	3356	3583
70°	3324	3226	3275
75°	3132	2936	2501
80°	2755	2302	2399
85°	2003	1936	1874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	3.2
10°-20°	319.2	9.2
20°-30°	487.3	14.0
30°-40°	593.5	17.1
40°-50°	624.7	18.0
50°-60°	575.2	16.6
60°-70°	447.7	12.9
70°-80°	248.5	7.2
80°-90°	63.8	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°	917.7	26.4
0°-40°	1511.2	43.5
0°-60°	2711.1	78.1
0°-90°	3471.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1169	1169	1169	1172	1174	111
15°	1128	1128	1128	1134	1137	319
25°	1051	1053	1053	1062	1069	485
35°	944	944	944	954	963	591
45°	808	803	803	816	828	623
55°	643	642	636	647	661	576
65°	455	450	443	457	473	451
75°	253	248	237	211	202	267
85°	54	51	53	51	51	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.9	1175.9	1175.9	1175.9	1175.9
2.5°	1174.1	1172.4	1172.4	1175.9	1175.9
5°	1168.8	1168.8	1168.8	1172.4	1174.1
7.5°	1161.8	1161.8	1161.8	1167.1	1167.1
10°	1153.0	1151.3	1153.0	1156.5	1160.1
12.5°	1142.5	1140.7	1142.5	1146.0	1149.5
15°	1128.4	1128.4	1128.4	1133.7	1137.2
17.5°	1112.6	1110.8	1112.6	1117.9	1123.1
20°	1095.0	1095.0	1095.0	1102.1	1109.1
22.5°	1075.7	1073.9	1075.7	1084.5	1091.5
25°	1051.1	1052.8	1052.8	1061.6	1068.7
27.5°	1028.2	1026.5	1030.0	1037.0	1045.8
30°	1001.9	1001.9	1003.6	1012.4	1021.2
32.5°	975.5	973.7	975.5	984.3	993.1
35°	943.9	943.9	943.9	954.4	963.2
37.5°	912.2	910.5	910.5	921.0	933.3
40°	877.1	875.3	875.3	887.6	896.4
42.5°	843.7	841.9	841.9	852.5	864.8
45°	808.5	803.3	803.3	815.6	827.9
47.5°	768.1	764.6	766.3	776.9	789.2
50°	729.4	724.2	722.4	734.7	747.0
52.5°	687.2	685.5	680.2	690.8	704.8
55°	643.3	641.5	636.3	646.8	660.9
57.5°	601.1	595.8	590.6	599.4	615.2
60°	553.7	548.4	541.4	553.7	567.7
62.5°	506.2	499.2	493.9	504.4	520.3
65°	455.2	450.0	442.9	457.0	472.8
67.5°	407.8	402.5	393.7	406.0	416.6
70°	355.0	348.0	344.5	346.3	349.8
72.5°	304.1	300.6	295.3	281.2	277.7
75°	253.1	247.8	237.3	210.9	202.1
77.5°	202.1	198.6	179.3	156.4	156.4
80°	149.4	147.6	124.8	128.3	130.1
82.5°	101.9	98.4	91.4	89.6	89.6
85°	54.5	51.0	52.7	51.0	51.0
87.5°	21.1	21.1	22.8	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)