

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: P225580

Luminaire Tested: **22AC-LD5-34-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P225580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35761)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22AC-LD5-34-UNV-L830-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

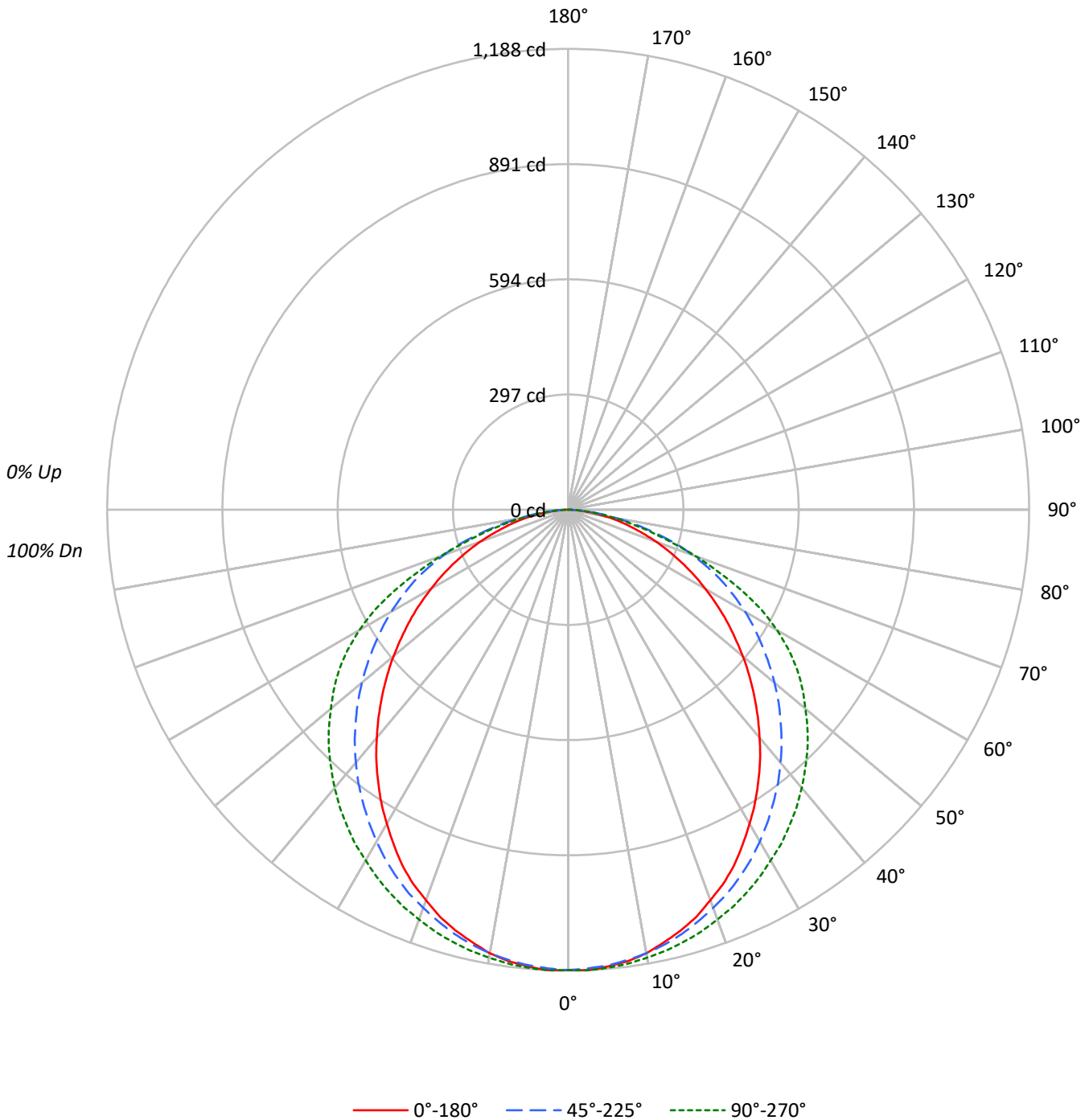
Lumens per Lamp: N/A
Luminaire Lumens: 3333.8 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3194	3194	3194
5°	3193	3184	3202
10°	3173	3173	3204
15°	3127	3154	3212
20°	3068	3127	3219
25°	3004	3104	3233
30°	2904	3069	3244
35°	2807	3029	3266
40°	2697	2990	3289
45°	2579	2946	3319
50°	2461	2905	3342
55°	2336	2863	3383
60°	2195	2835	3345
65°	2055	2791	3150
70°	1895	2679	2742
75°	1703	2405	2271
80°	1469	1991	1841
85°	1139	1340	1291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.4
10°-20°	320.2	9.6
20°-30°	482.5	14.5
30°-40°	577.8	17.3
40°-50°	597.5	17.9
50°-60°	545.7	16.4
60°-70°	417.6	12.5
70°-80°	227.1	6.8
80°-90°	53.1	1.6
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°	915.0	27.4
0°-40°	1492.7	44.8
0°-60°	2636.0	79.1
0°-90°	3333.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3333.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1182	1180	1179	1182	1185	112
15°	1123	1124	1132	1145	1153	316
25°	1012	1020	1046	1074	1089	465
35°	854	874	922	972	994	534
45°	678	705	774	843	872	523
55°	498	536	610	691	721	445
65°	323	360	438	488	495	320
75°	164	202	231	226	218	175
85°	37	42	43	42	42	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1188.5	1185.3	1183.6	1186.9	1188.5
5°	1182.0	1180.4	1178.8	1182.0	1185.3
7.5°	1174.0	1170.8	1170.8	1177.2	1180.4
10°	1161.2	1158.0	1161.2	1169.2	1172.4
12.5°	1141.9	1143.5	1148.3	1159.6	1164.4
15°	1122.6	1124.2	1132.3	1145.1	1153.1
17.5°	1100.1	1103.3	1113.0	1132.3	1140.3
20°	1071.2	1076.0	1092.1	1114.6	1124.2
22.5°	1043.9	1048.7	1071.2	1096.9	1108.2
25°	1011.8	1019.8	1045.5	1074.4	1088.9
27.5°	973.3	987.7	1018.2	1052.0	1068.0
30°	934.7	950.8	987.7	1027.9	1043.9
32.5°	896.2	912.2	955.6	1002.2	1021.4
35°	854.4	873.7	921.9	971.7	994.1
37.5°	812.7	835.1	888.1	942.7	966.8
40°	767.7	793.4	851.2	912.2	936.3
42.5°	722.7	746.8	814.3	876.9	904.2
45°	677.7	705.0	774.1	843.2	872.1
47.5°	632.8	661.7	735.6	806.2	836.7
50°	587.8	619.9	693.8	769.3	798.2
52.5°	541.2	575.0	652.1	730.7	761.3
55°	497.9	536.4	610.3	690.6	721.1
57.5°	452.9	491.4	568.5	648.8	674.5
60°	407.9	443.3	526.8	600.7	621.5
62.5°	366.2	401.5	481.8	547.7	563.7
65°	322.8	359.8	438.4	488.2	494.7
67.5°	281.1	318.0	390.3	427.2	419.2
70°	240.9	277.8	340.5	353.3	348.5
72.5°	200.8	239.3	290.7	289.1	277.8
75°	163.8	202.4	231.3	226.5	218.4
77.5°	131.7	162.2	179.9	171.8	165.4
80°	94.8	123.7	128.5	122.1	118.8
82.5°	65.8	80.3	83.5	80.3	77.1
85°	36.9	41.8	43.4	41.8	41.8
87.5°	11.2	11.2	14.5	17.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)