

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: P225586

Luminaire Tested: **22AC-LD5-34-UNV-L835-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: P225586
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-L835-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)3500K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.0 lumens
Efficiency: N/A
Efficacy: 114.8 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

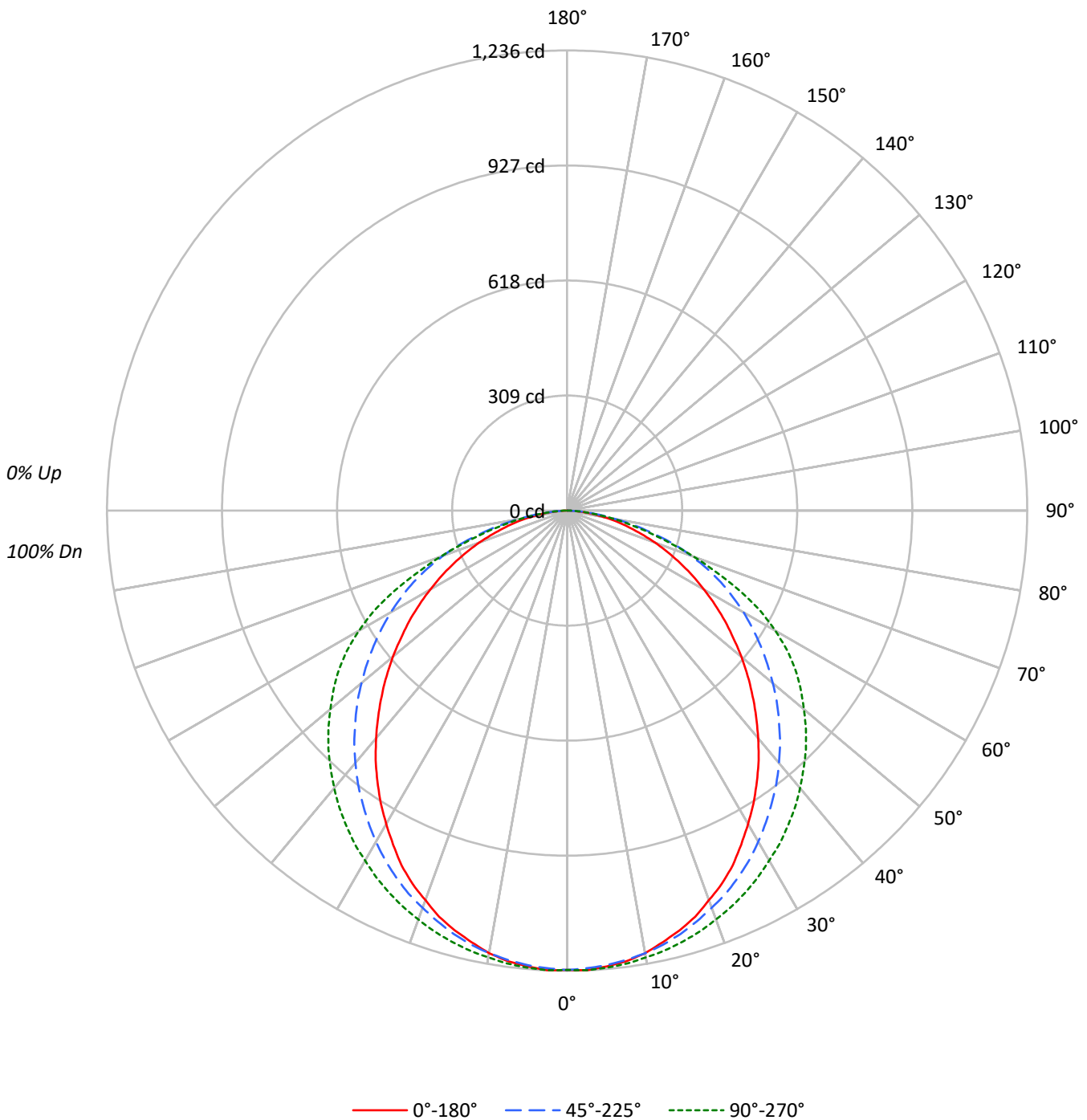
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3320	3320	3320
5°	3320	3311	3329
10°	3299	3299	3331
15°	3251	3280	3340
20°	3189	3251	3347
25°	3123	3227	3361
30°	3020	3191	3372
35°	2918	3148	3395
40°	2804	3109	3419
45°	2681	3063	3451
50°	2558	3020	3474
55°	2428	2977	3517
60°	2282	2948	3478
65°	2137	2902	3275
70°	1971	2785	2851
75°	1771	2499	2361
80°	1526	2070	1915
85°	1186	1392	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	3.4
10°-20°	332.9	9.6
20°-30°	501.7	14.5
30°-40°	600.7	17.3
40°-50°	621.2	17.9
50°-60°	567.4	16.4
60°-70°	434.2	12.5
70°-80°	236.1	6.8
80°-90°	55.2	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°	951.2	27.4
0°-40°	1551.9	44.8
0°-60°	2740.6	79.1
0°-90°	3466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1234	1234	1234	1234	1234	
5°	1229	1227	1226	1229	1232	117
15°	1167	1169	1177	1190	1199	329
25°	1052	1060	1087	1117	1132	483
35°	888	908	958	1010	1034	555
45°	705	733	805	877	907	544
55°	518	558	634	718	750	462
65°	336	374	456	508	514	333
75°	170	210	240	235	227	182
85°	38	43	45	43	43	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1233.9	1233.9	1233.9	1233.9	1233.9
2.5°	1235.6	1232.3	1230.6	1233.9	1235.6
5°	1228.9	1227.2	1225.6	1228.9	1232.3
7.5°	1220.6	1217.2	1217.2	1223.9	1227.2
10°	1207.2	1203.9	1207.2	1215.6	1218.9
12.5°	1187.2	1188.8	1193.8	1205.5	1210.5
15°	1167.1	1168.8	1177.2	1190.5	1198.9
17.5°	1143.8	1147.1	1157.1	1177.2	1185.5
20°	1113.7	1118.7	1135.4	1158.8	1168.8
22.5°	1085.3	1090.3	1113.7	1140.4	1152.1
25°	1051.9	1060.3	1087.0	1117.0	1132.1
27.5°	1011.9	1026.9	1058.6	1093.7	1110.4
30°	971.8	988.5	1026.9	1068.6	1085.3
32.5°	931.7	948.4	993.5	1041.9	1061.9
35°	888.3	908.3	958.4	1010.2	1033.6
37.5°	844.9	868.3	923.4	980.1	1005.2
40°	798.1	824.8	885.0	948.4	973.4
42.5°	751.4	776.4	846.5	911.7	940.1
45°	704.6	733.0	804.8	876.6	906.7
47.5°	657.9	687.9	764.7	838.2	869.9
50°	611.1	644.5	721.3	799.8	829.9
52.5°	562.7	597.8	677.9	759.7	791.4
55°	517.6	557.7	634.5	718.0	749.7
57.5°	470.9	510.9	591.1	674.6	701.3
60°	424.1	460.8	547.7	624.5	646.2
62.5°	380.7	417.4	500.9	569.4	586.1
65°	335.6	374.0	455.8	507.6	514.3
67.5°	292.2	330.6	405.7	444.1	435.8
70°	250.5	288.9	354.0	367.3	362.3
72.5°	208.7	248.8	302.2	300.5	288.9
75°	170.3	210.4	240.4	235.4	227.1
77.5°	136.9	168.6	187.0	178.7	172.0
80°	98.5	128.6	133.6	126.9	123.6
82.5°	68.5	83.5	86.8	83.5	80.1
85°	38.4	43.4	45.1	43.4	43.4
87.5°	11.7	11.7	15.0	18.4	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)