

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: P225592

Luminaire Tested: **22AC-LD5-34-UNV-L840-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: P225592
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-L840-CD1-U
Description: METALUX Accord 2X2 LED TROFFER
Light Source: (84)4000K CCT, 85 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535.3 lumens
Efficiency: N/A
Efficacy: 117.1 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

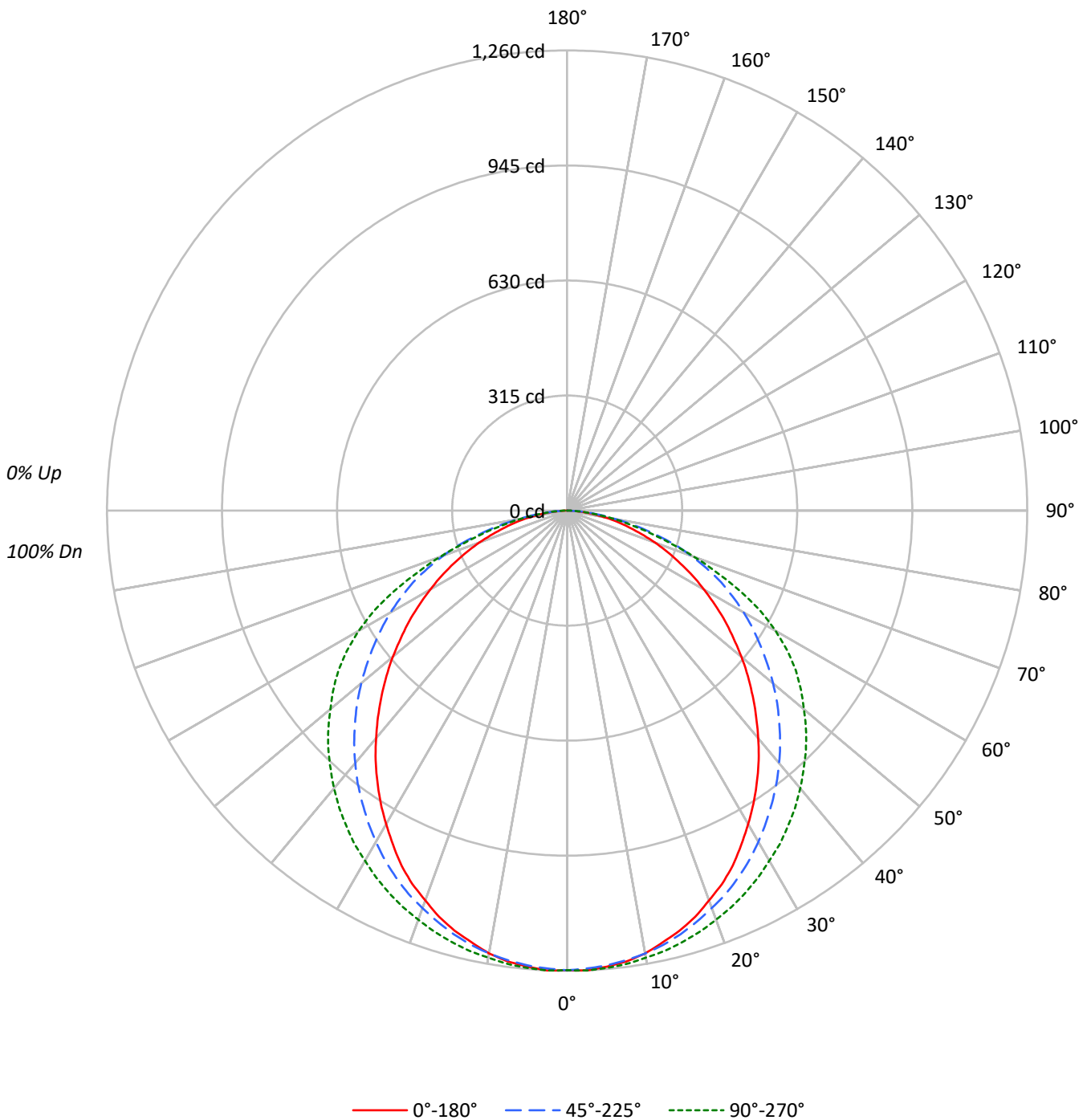
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3387	3387	3387
5°	3386	3377	3395
10°	3365	3365	3397
15°	3317	3345	3407
20°	3253	3316	3414
25°	3186	3292	3428
30°	3080	3255	3440
35°	2977	3211	3463
40°	2860	3171	3488
45°	2735	3124	3519
50°	2609	3080	3543
55°	2477	3036	3588
60°	2328	3006	3547
65°	2180	2961	3340
70°	2010	2841	2908
75°	1806	2549	2408
80°	1557	2111	1953
85°	1210	1420	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	3.4
10°-20°	339.6	9.6
20°-30°	511.7	14.5
30°-40°	612.7	17.3
40°-50°	633.6	17.9
50°-60°	578.7	16.4
60°-70°	442.9	12.5
70°-80°	240.8	6.8
80°-90°	56.3	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°	970.3	27.4
0°-40°	1583.0	44.8
0°-60°	2795.4	79.1
0°-90°	3535.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3535.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1254	1252	1250	1254	1257	119
15°	1190	1192	1201	1214	1223	335
25°	1073	1082	1109	1139	1155	493
35°	906	926	978	1030	1054	566
45°	719	748	821	894	925	555
55°	528	569	647	732	765	472
65°	342	382	465	518	525	340
75°	174	215	245	240	232	186
85°	39	44	46	44	44	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.6	1258.6	1258.6	1258.6	1258.6
2.5°	1260.3	1256.9	1255.2	1258.6	1260.3
5°	1253.5	1251.8	1250.1	1253.5	1256.9
7.5°	1245.0	1241.6	1241.6	1248.4	1251.8
10°	1231.4	1227.9	1231.4	1239.9	1243.3
12.5°	1210.9	1212.6	1217.7	1229.6	1234.8
15°	1190.5	1192.2	1200.7	1214.3	1222.8
17.5°	1166.6	1170.0	1180.3	1200.7	1209.2
20°	1136.0	1141.1	1158.1	1182.0	1192.2
22.5°	1107.0	1112.1	1136.0	1163.2	1175.1
25°	1073.0	1081.5	1108.7	1139.4	1154.7
27.5°	1032.1	1047.4	1079.8	1115.5	1132.6
30°	991.2	1008.2	1047.4	1090.0	1107.0
32.5°	950.3	967.4	1013.4	1062.7	1083.2
35°	906.1	926.5	977.6	1030.4	1054.2
37.5°	861.8	885.6	941.8	999.7	1025.3
40°	814.1	841.3	902.7	967.4	992.9
42.5°	766.4	791.9	863.5	929.9	958.9
45°	718.7	747.7	820.9	894.1	924.8
47.5°	671.0	701.7	780.0	855.0	887.3
50°	623.3	657.4	735.7	815.8	846.4
52.5°	573.9	609.7	691.5	774.9	807.3
55°	528.0	568.8	647.2	732.3	764.7
57.5°	480.3	521.2	602.9	688.1	715.3
60°	432.6	470.1	558.6	637.0	659.1
62.5°	388.3	425.8	510.9	580.8	597.8
65°	342.3	381.5	465.0	517.7	524.6
67.5°	298.0	337.2	413.9	453.0	444.5
70°	255.5	294.6	361.1	374.7	369.6
72.5°	212.9	253.8	308.3	306.6	294.6
75°	173.7	214.6	245.2	240.1	231.6
77.5°	139.7	172.0	190.7	182.2	175.4
80°	100.5	131.1	136.2	129.4	126.0
82.5°	69.8	85.2	88.6	85.2	81.7
85°	39.2	44.3	46.0	44.3	44.3
87.5°	11.9	11.9	15.3	18.7	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)