

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: P225587

Luminaire Tested: **22AC-LD5-38-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: P225587
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-LD5-38-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: 3827.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

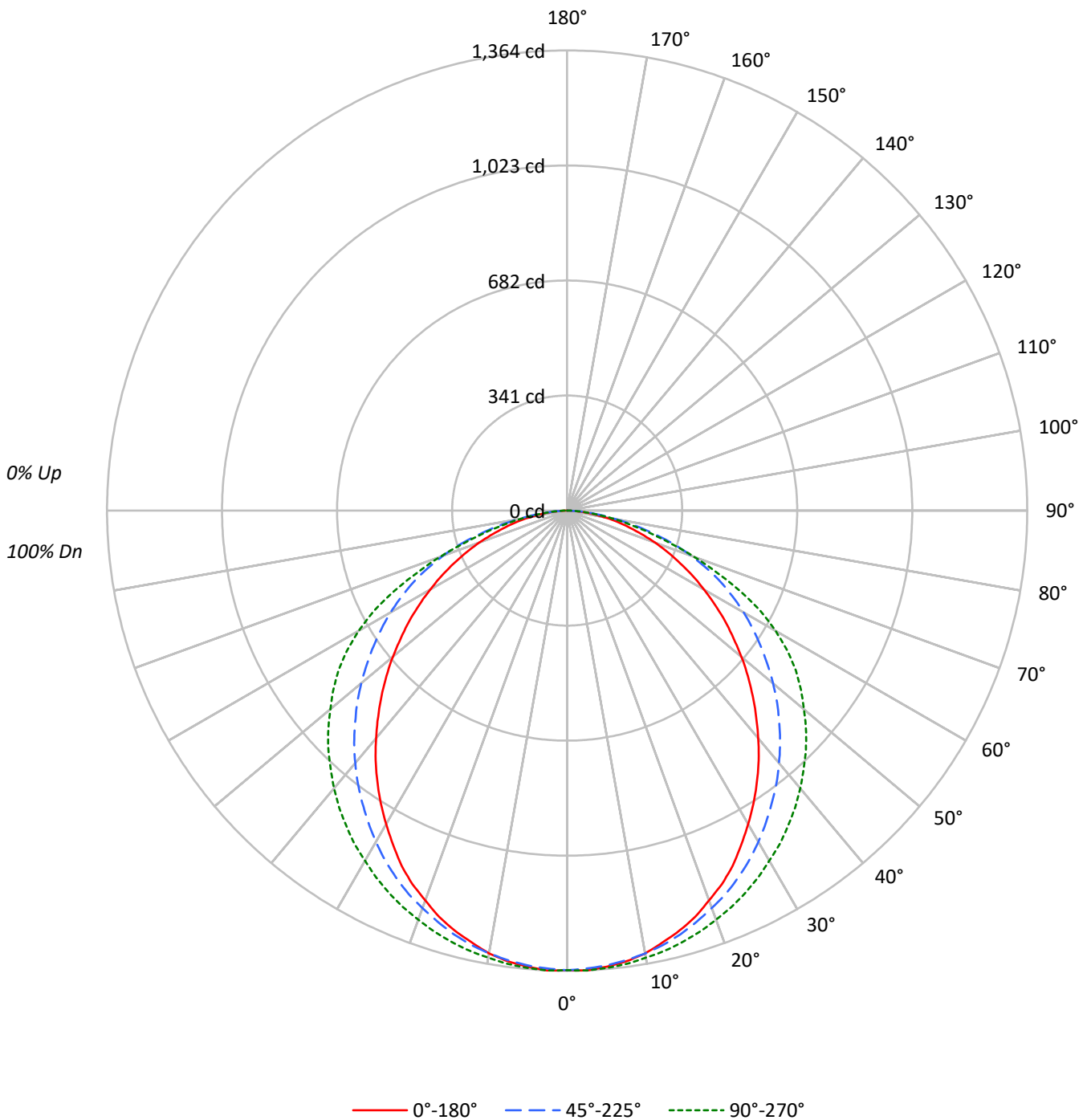
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3666	3666	3666
5°	3665	3655	3675
10°	3642	3642	3677
15°	3590	3621	3688
20°	3521	3590	3696
25°	3449	3564	3711
30°	3334	3523	3724
35°	3222	3476	3749
40°	3096	3432	3776
45°	2961	3382	3810
50°	2825	3334	3836
55°	2681	3287	3884
60°	2520	3254	3840
65°	2360	3205	3615
70°	2175	3075	3148
75°	1956	2760	2607
80°	1686	2286	2114
85°	1309	1538	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.4
10°-20°	367.6	9.6
20°-30°	553.9	14.5
30°-40°	663.2	17.3
40°-50°	685.9	17.9
50°-60°	626.5	16.4
60°-70°	479.4	12.5
70°-80°	260.7	6.8
80°-90°	60.9	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°	1050.3	27.4
0°-40°	1713.6	44.8
0°-60°	3026.0	79.1
0°-90°	3827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1357	1355	1353	1357	1361	129
15°	1289	1290	1300	1314	1324	363
25°	1162	1171	1200	1233	1250	533
35°	981	1003	1058	1115	1141	613
45°	778	809	889	968	1001	600
55°	572	616	701	793	828	511
65°	371	413	503	560	568	368
75°	188	232	266	260	251	201
85°	42	48	50	48	48	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.4	1362.4	1362.4	1362.4	1362.4
2.5°	1364.3	1360.6	1358.8	1362.4	1364.3
5°	1356.9	1355.1	1353.2	1356.9	1360.6
7.5°	1347.7	1344.0	1344.0	1351.4	1355.1
10°	1332.9	1329.3	1332.9	1342.2	1345.8
12.5°	1310.8	1312.7	1318.2	1331.1	1336.6
15°	1288.7	1290.5	1299.8	1314.5	1323.7
17.5°	1262.9	1266.6	1277.6	1299.8	1309.0
20°	1229.7	1235.2	1253.7	1279.5	1290.5
22.5°	1198.4	1203.9	1229.7	1259.2	1272.1
25°	1161.5	1170.7	1200.2	1233.4	1250.0
27.5°	1117.2	1133.8	1168.9	1207.6	1226.0
30°	1073.0	1091.4	1133.8	1179.9	1198.4
32.5°	1028.7	1047.2	1097.0	1150.4	1172.5
35°	980.8	1002.9	1058.2	1115.4	1141.2
37.5°	932.9	958.7	1019.5	1082.2	1109.9
40°	881.3	910.8	977.1	1047.2	1074.8
42.5°	829.6	857.3	934.7	1006.6	1038.0
45°	778.0	809.4	888.6	967.9	1001.1
47.5°	726.4	759.6	844.4	925.5	960.5
50°	674.8	711.6	796.4	883.1	916.3
52.5°	621.3	660.0	748.5	838.9	873.9
55°	571.5	615.8	700.6	792.8	827.8
57.5°	519.9	564.2	652.6	744.8	774.3
60°	468.3	508.8	604.7	689.5	713.5
62.5°	420.3	460.9	553.1	628.7	647.1
65°	370.6	413.0	503.3	560.5	567.8
67.5°	322.6	365.0	448.0	490.4	481.2
70°	276.5	318.9	390.8	405.6	400.1
72.5°	230.5	274.7	333.7	331.9	318.9
75°	188.1	232.3	265.5	260.0	250.7
77.5°	151.2	186.2	206.5	197.3	189.9
80°	108.8	142.0	147.5	140.1	136.4
82.5°	75.6	92.2	95.9	92.2	88.5
85°	42.4	47.9	49.8	47.9	47.9
87.5°	12.9	12.9	16.6	20.3	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)