

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: P229407

Luminaire Tested: **22ALNG-LD5-40-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-40-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3729.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

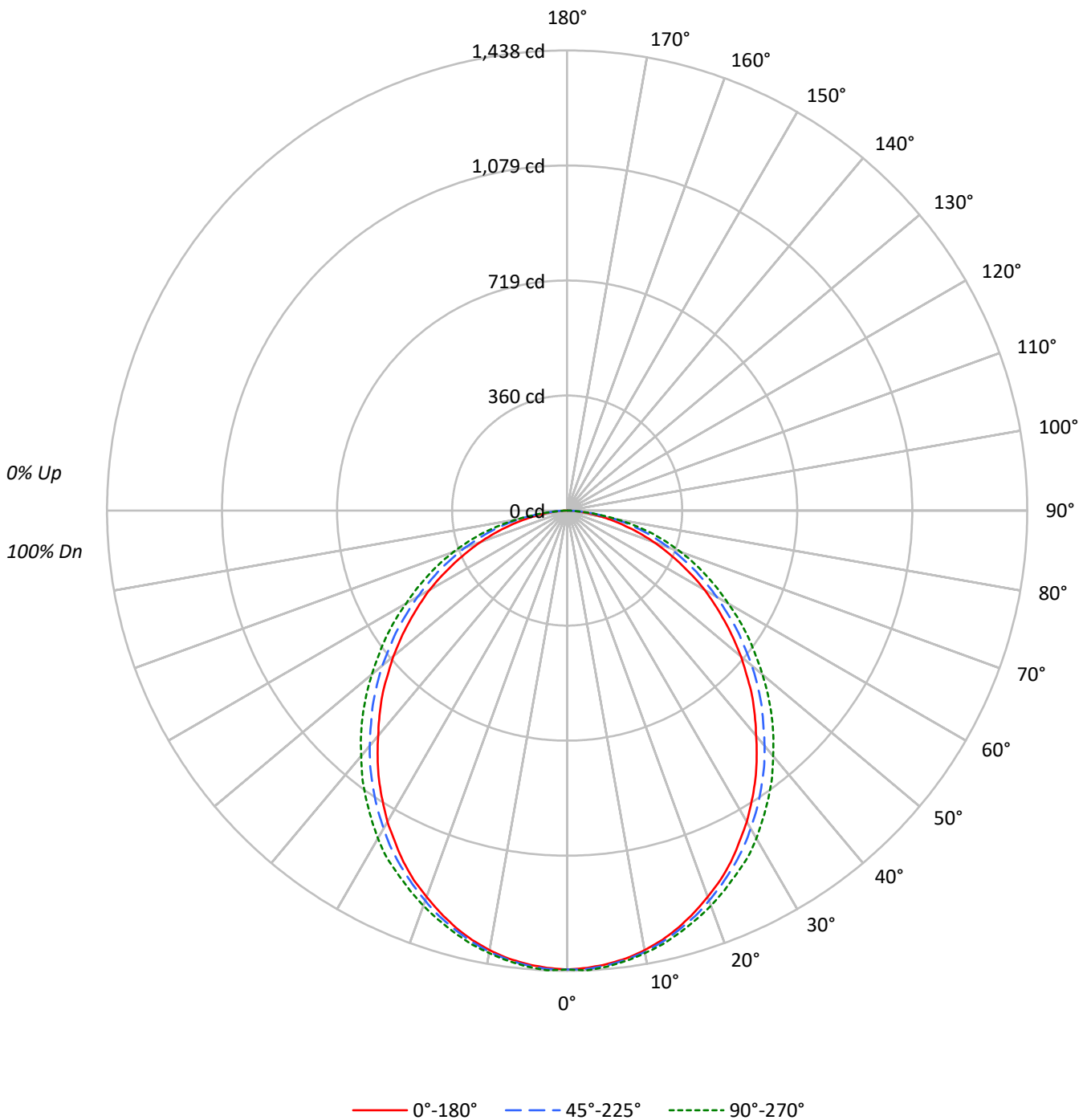
Input Watts (W): 34.42
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4593	4593	4593
5°	4574	4586	4598
10°	4536	4554	4566
15°	4469	4494	4525
20°	4377	4421	4479
25°	4279	4339	4425
30°	4152	4243	4374
35°	4009	4134	4288
40°	3840	4012	4185
45°	3702	3889	4092
50°	3530	3755	3969
55°	3349	3611	3863
60°	3182	3458	3723
65°	2941	3324	3637
70°	2703	3177	3528
75°	2366	3015	3387
80°	1971	2731	2905
85°	1514	1929	1789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.6
10°-20°	382.2	10.3
20°-30°	566.3	15.2
30°-40°	662.3	17.8
40°-50°	661.8	17.7
50°-60°	576.9	15.5
60°-70°	431.4	11.6
70°-80°	251.1	6.7
80°-90°	61.6	1.7
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°	1083.9	29.1
0°-40°	1746.2	46.8
0°-60°	2984.9	80.0
0°-90°	3729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1423	1425	1427	1430	1430	135
15°	1348	1350	1355	1361	1365	380
25°	1211	1215	1228	1245	1252	557
35°	1026	1033	1057	1087	1097	640
45°	817	827	859	890	904	629
55°	600	611	647	677	692	537
65°	388	403	439	467	480	386
75°	191	212	244	262	274	205
85°	41	49	52	51	49	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.1	1434.1	1434.1	1434.1	1434.1
2.5°	1430.4	1430.4	1434.1	1436.0	1437.9
5°	1422.9	1424.8	1426.6	1430.4	1430.4
7.5°	1411.7	1413.5	1415.4	1419.2	1419.2
10°	1394.8	1396.7	1400.4	1404.2	1404.2
12.5°	1374.2	1376.0	1379.8	1383.5	1387.3
15°	1347.9	1349.8	1355.4	1361.0	1364.8
17.5°	1317.9	1321.7	1329.2	1336.7	1340.4
20°	1284.2	1287.9	1297.3	1310.4	1314.2
22.5°	1250.4	1252.3	1263.6	1278.5	1284.2
25°	1211.1	1214.8	1227.9	1244.8	1252.3
27.5°	1166.1	1171.7	1190.4	1211.1	1222.3
30°	1122.9	1126.7	1147.3	1173.6	1182.9
32.5°	1074.2	1081.7	1104.2	1130.4	1139.8
35°	1025.5	1033.0	1057.3	1087.3	1096.7
37.5°	973.0	980.5	1010.5	1040.5	1051.7
40°	918.6	929.9	959.8	991.7	1001.1
42.5°	868.0	877.4	907.4	939.2	954.2
45°	817.4	826.7	858.6	890.5	903.6
47.5°	761.1	770.5	806.1	838.0	851.1
50°	708.6	718.0	753.6	785.5	796.7
52.5°	654.3	665.5	697.4	731.1	742.4
55°	599.9	611.2	646.8	676.8	691.8
57.5°	547.4	560.5	590.5	622.4	637.4
60°	496.8	506.2	539.9	569.9	581.2
62.5°	442.4	453.7	487.4	519.3	530.5
65°	388.1	403.1	438.7	466.8	479.9
67.5°	337.4	352.4	388.1	414.3	429.3
70°	288.7	303.7	339.3	363.7	376.8
72.5°	240.0	258.7	290.6	313.1	324.3
75°	191.2	211.8	243.7	262.5	273.7
77.5°	148.1	168.7	196.8	213.7	217.5
80°	106.9	127.5	148.1	155.6	157.5
82.5°	73.1	88.1	99.4	99.4	103.1
85°	41.2	48.7	52.5	50.6	48.7
87.5°	15.0	16.9	15.0	9.4	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)