

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: P229339

Luminaire Tested: **14ALNG-LD5-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36085)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD5-40-UNV-L840-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4059.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.3
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

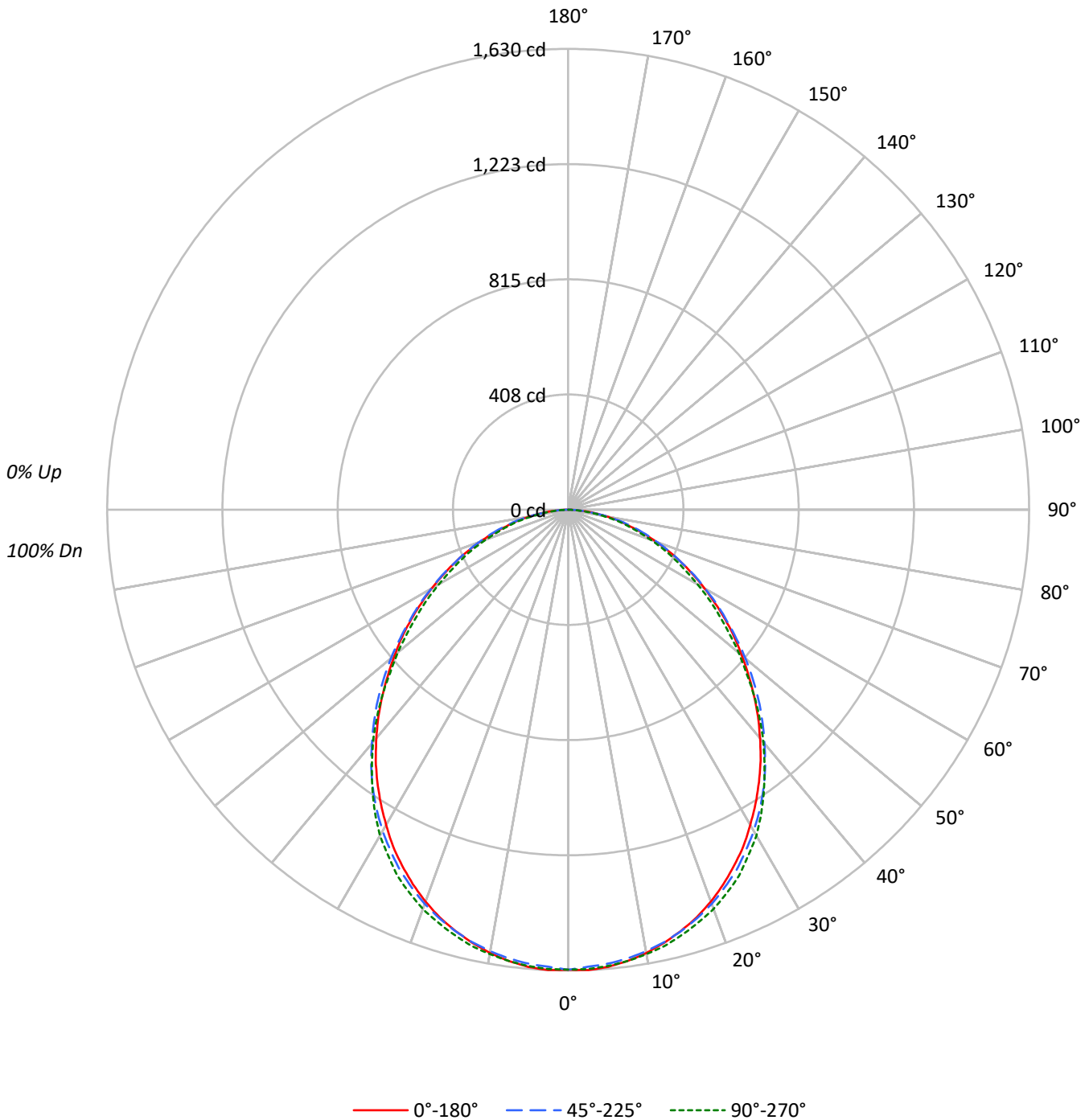
Input Watts (W): 40.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5482	5482	5482
5°	5490	5453	5480
10°	5447	5427	5461
15°	5379	5383	5432
20°	5289	5321	5389
25°	5164	5231	5313
30°	5008	5105	5179
35°	4837	4953	4965
40°	4641	4751	4724
45°	4427	4537	4432
50°	4199	4288	4126
55°	3983	4018	3830
60°	3754	3767	3558
65°	3516	3516	3309
70°	3251	3291	3044
75°	2955	3072	2799
80°	2697	2775	2387
85°	2358	2088	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.7	3.8
10°-20°	436.5	10.8
20°-30°	648.1	16.0
30°-40°	748.7	18.4
40°-50°	725.5	17.9
50°-60°	605.8	14.9
60°-70°	433.1	10.7
70°-80°	243.0	6.0
80°-90°	64.7	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°	1238.3	30.5
0°-40°	1987.0	49.0
0°-60°	3318.3	81.8
0°-90°	4059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1627	1627	1627	1627	1627	
5°	1623	1620	1612	1621	1620	154
15°	1542	1544	1543	1558	1557	435
25°	1389	1396	1407	1427	1429	639
35°	1176	1186	1204	1212	1207	735
45°	929	942	952	940	930	716
55°	678	689	684	665	652	607
65°	441	449	441	424	415	438
75°	227	237	236	220	215	244
85°	61	62	54	49	47	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1627	1627	1627	1627	1627
2.5°	1630	1627	1618	1627	1626
5°	1623	1620	1612	1621	1620
7.5°	1610	1608	1601	1612	1610
10°	1592	1590	1586	1597	1596
12.5°	1569	1569	1567	1579	1580
15°	1542	1544	1543	1558	1557
17.5°	1512	1512	1515	1532	1531
20°	1475	1477	1484	1500	1503
22.5°	1434	1437	1446	1466	1467
25°	1389	1396	1407	1427	1429
27.5°	1342	1347	1360	1381	1379
30°	1287	1299	1312	1329	1331
32.5°	1233	1244	1260	1274	1271
35°	1176	1186	1204	1212	1207
37.5°	1118	1129	1144	1148	1140
40°	1055	1069	1080	1080	1074
42.5°	993	1004	1016	1011	1002
45°	929	942	952	940	930
47.5°	864	879	884	871	854
50°	801	817	818	801	787
52.5°	741	753	750	733	717
55°	678	689	684	665	652
57.5°	616	627	624	602	590
60°	557	563	559	542	528
62.5°	498	505	503	479	469
65°	441	449	441	424	415
67.5°	387	392	390	376	364
70°	330	337	334	318	309
72.5°	279	287	286	269	258
75°	227	237	236	220	215
77.5°	185	190	191	174	171
80°	139	146	143	128	123
82.5°	98	104	95	86	84
85°	61	62	54	49	47
87.5°	25	25	19	17	18
90°	0	0	0	0	0

(END OF REPORT)