

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: P229329

Luminaire Tested: **14ALNG-LD5-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229329
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-L830-CD1-U
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (84)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3897.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

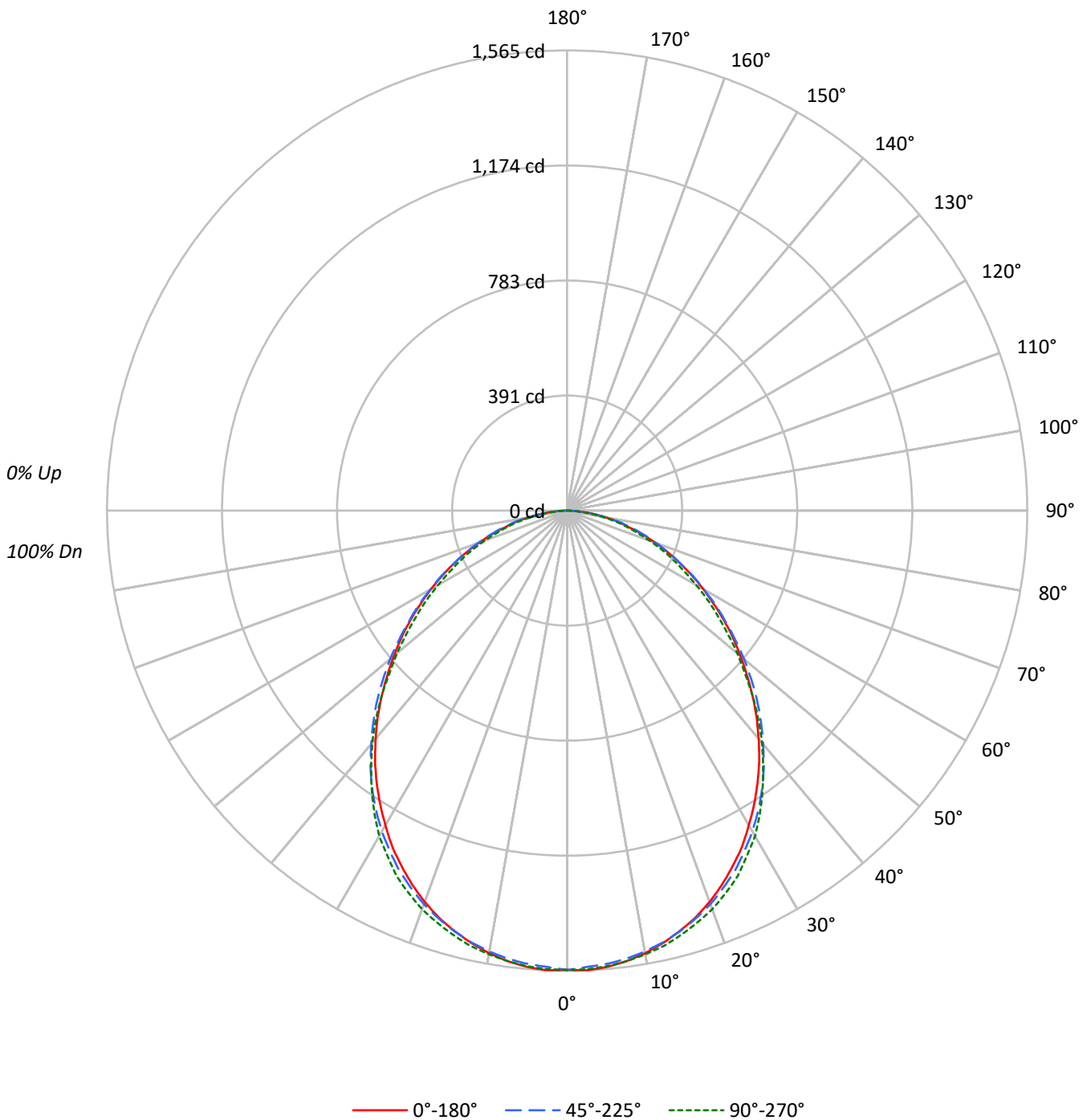
Input Watts (W): 40.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5263	5263	5263
5°	5271	5235	5261
10°	5230	5210	5243
15°	5164	5168	5215
20°	5078	5109	5174
25°	4958	5022	5101
30°	4808	4901	4972
35°	4645	4755	4767
40°	4455	4561	4535
45°	4250	4355	4255
50°	4031	4117	3961
55°	3824	3858	3678
60°	3604	3617	3416
65°	3376	3376	3176
70°	3121	3160	2923
75°	2837	2950	2687
80°	2591	2664	2292
85°	2266	2003	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	3.8
10°-20°	419.1	10.8
20°-30°	622.3	16.0
30°-40°	718.8	18.4
40°-50°	696.5	17.9
50°-60°	581.6	14.9
60°-70°	415.8	10.7
70°-80°	233.3	6.0
80°-90°	62.1	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°	1188.9	30.5
0°-40°	1907.7	49.0
0°-60°	3185.8	81.8
0°-90°	3897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1558	1555	1548	1556	1555	148
15°	1480	1482	1481	1496	1495	417
25°	1334	1340	1351	1370	1372	614
35°	1129	1139	1156	1164	1159	706
45°	892	904	914	902	893	688
55°	651	662	657	638	626	582
65°	423	431	423	407	398	420
75°	218	228	227	211	206	234
85°	59	60	52	47	45	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1562.0	1562.0	1562.0	1562.0	1562.0
2.5°	1564.9	1562.0	1553.4	1562.0	1561.1
5°	1558.2	1555.3	1547.6	1556.3	1555.3
7.5°	1545.7	1543.8	1537.1	1547.6	1545.7
10°	1528.4	1526.5	1522.7	1533.2	1532.3
12.5°	1506.4	1506.4	1504.4	1516.0	1516.9
15°	1480.4	1482.4	1481.4	1495.8	1494.8
17.5°	1451.6	1451.6	1454.5	1470.8	1469.9
20°	1416.1	1418.0	1424.8	1440.1	1443.0
22.5°	1376.8	1379.6	1388.3	1407.5	1408.4
25°	1333.5	1340.3	1350.8	1370.0	1372.0
27.5°	1288.4	1293.2	1305.7	1325.9	1323.9
30°	1235.6	1247.1	1259.6	1275.9	1277.9
32.5°	1183.8	1194.3	1209.7	1223.1	1220.3
35°	1129.1	1138.7	1155.9	1163.6	1158.8
37.5°	1073.4	1083.9	1098.3	1102.2	1094.5
40°	1012.9	1026.3	1036.9	1036.9	1031.1
42.5°	953.4	963.9	975.4	970.6	962.0
45°	891.9	904.4	914.0	902.5	892.9
47.5°	829.5	843.9	848.7	836.2	819.9
50°	769.0	784.4	785.3	769.0	755.6
52.5°	711.4	722.9	720.1	703.7	688.4
55°	650.9	661.5	656.7	638.5	626.0
57.5°	591.4	602.0	599.1	578.0	566.4
60°	534.8	540.5	536.7	520.4	506.9
62.5°	478.1	484.8	482.9	459.9	450.3
65°	423.4	431.1	423.4	407.1	398.4
67.5°	371.6	376.4	374.4	361.0	349.5
70°	316.8	323.5	320.7	305.3	296.7
72.5°	267.9	275.5	274.6	258.3	247.7
75°	217.9	227.5	226.6	211.2	206.4
77.5°	177.6	182.4	183.4	167.1	164.2
80°	133.5	140.2	137.3	122.9	118.1
82.5°	94.1	99.8	91.2	82.6	80.6
85°	58.6	59.5	51.8	47.0	45.1
87.5°	24.0	24.0	18.2	16.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)