

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: P229413

Luminaire Tested: **22ALNG-LD5-40-UNV-L835-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229413
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-L835-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3885.0 lumens
Efficiency: N/A
Efficacy: 112.9 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

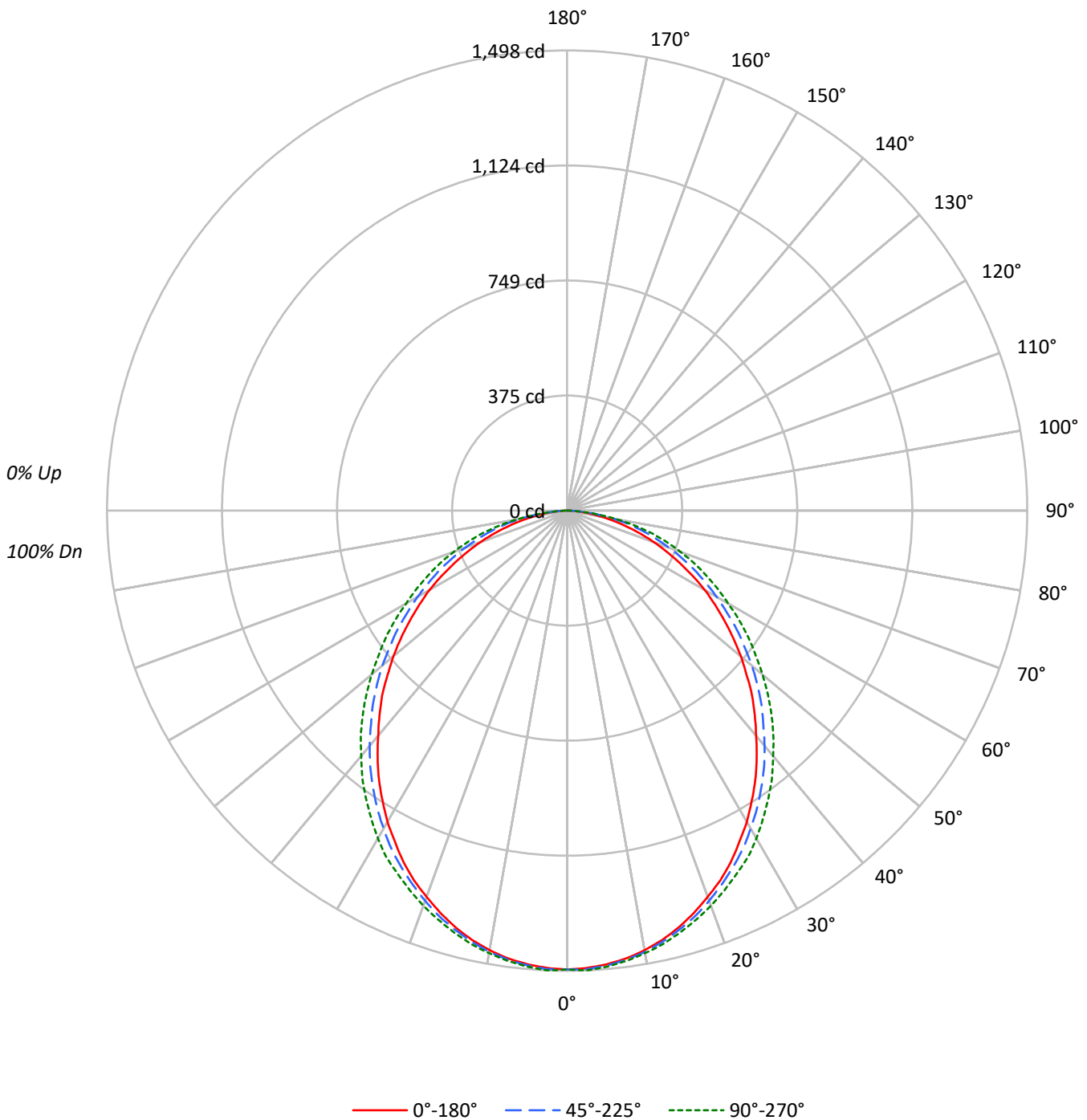
Input Watts (W): 34.42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4785	4785	4785
5°	4766	4778	4791
10°	4725	4745	4757
15°	4656	4682	4714
20°	4560	4606	4666
25°	4458	4520	4610
30°	4326	4420	4557
35°	4177	4307	4467
40°	4001	4181	4360
45°	3857	4051	4264
50°	3678	3912	4136
55°	3490	3762	4024
60°	3315	3603	3878
65°	3064	3463	3789
70°	2817	3310	3676
75°	2465	3142	3529
80°	2053	2846	3026
85°	1580	2010	1867



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.6
10°-20°	398.2	10.3
20°-30°	590.0	15.2
30°-40°	690.0	17.8
40°-50°	689.5	17.7
50°-60°	601.0	15.5
60°-70°	449.5	11.6
70°-80°	261.6	6.7
80°-90°	64.2	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°	1129.3	29.1
0°-40°	1819.2	46.8
0°-60°	3109.7	80.0
0°-90°	3885.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3885.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1482	1484	1486	1490	1490	141
15°	1404	1406	1412	1418	1422	395
25°	1262	1266	1279	1297	1305	580
35°	1068	1076	1102	1133	1143	667
45°	852	861	894	928	941	655
55°	625	637	674	705	721	560
65°	404	420	457	486	500	402
75°	199	221	254	273	285	213
85°	43	51	55	53	51	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.1	1494.1	1494.1	1494.1	1494.1
2.5°	1490.2	1490.2	1494.1	1496.1	1498.1
5°	1482.4	1484.4	1486.3	1490.2	1490.2
7.5°	1470.7	1472.7	1474.6	1478.5	1478.5
10°	1453.1	1455.1	1459.0	1462.9	1462.9
12.5°	1431.6	1433.6	1437.5	1441.4	1445.3
15°	1404.3	1406.3	1412.1	1418.0	1421.9
17.5°	1373.1	1377.0	1384.8	1392.6	1396.5
20°	1337.9	1341.8	1351.6	1365.2	1369.1
22.5°	1302.7	1304.7	1316.4	1332.0	1337.9
25°	1261.7	1265.6	1279.3	1296.9	1304.7
27.5°	1214.8	1220.7	1240.2	1261.7	1273.4
30°	1169.9	1173.8	1195.3	1222.7	1232.4
32.5°	1119.1	1127.0	1150.4	1177.7	1187.5
35°	1068.4	1076.2	1101.6	1132.8	1142.6
37.5°	1013.7	1021.5	1052.7	1084.0	1095.7
40°	957.0	968.8	1000.0	1033.2	1043.0
42.5°	904.3	914.1	945.3	978.5	994.1
45°	851.6	861.3	894.5	927.7	941.4
47.5°	793.0	802.7	839.8	873.0	886.7
50°	738.3	748.0	785.2	818.4	830.1
52.5°	681.6	693.4	726.6	761.7	773.4
55°	625.0	636.7	673.8	705.1	720.7
57.5°	570.3	584.0	615.2	648.4	664.1
60°	517.6	527.3	562.5	593.8	605.5
62.5°	460.9	472.7	507.8	541.0	552.7
65°	404.3	419.9	457.0	486.3	500.0
67.5°	351.6	367.2	404.3	431.6	447.3
70°	300.8	316.4	353.5	378.9	392.6
72.5°	250.0	269.5	302.7	326.2	337.9
75°	199.2	220.7	253.9	273.4	285.2
77.5°	154.3	175.8	205.1	222.7	226.6
80°	111.3	132.8	154.3	162.1	164.1
82.5°	76.2	91.8	103.5	103.5	107.4
85°	43.0	50.8	54.7	52.7	50.8
87.5°	15.6	17.6	15.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)