

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: P258701

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L92765-W2A1-U-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4093.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

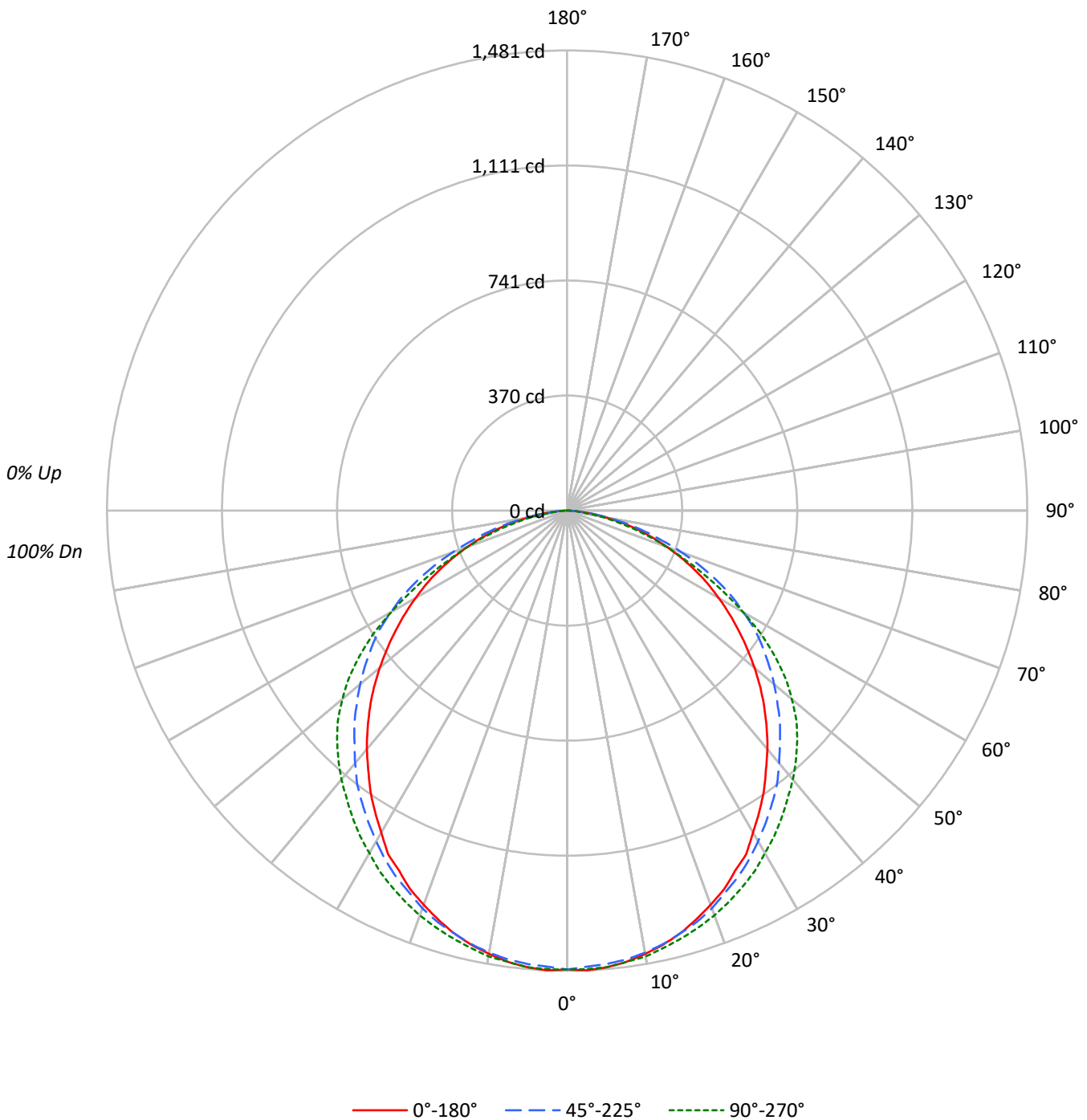
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3975	3975	3975
5°	3984	3957	3984
10°	3959	3948	3981
15°	3924	3924	3969
20°	3866	3900	3970
25°	3798	3864	3966
30°	3718	3819	3956
35°	3626	3778	3957
40°	3523	3729	3969
45°	3417	3686	3986
50°	3295	3641	3953
55°	3162	3607	3825
60°	3030	3529	3519
65°	2891	3379	3084
70°	2683	3080	2667
75°	2434	2686	2203
80°	1939	2126	1626
85°	1371	1183	936



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.4
10°-20°	399.2	9.8
20°-30°	602.0	14.7
30°-40°	721.6	17.6
40°-50°	748.8	18.3
50°-60°	675.4	16.5
60°-70°	492.7	12.0
70°-80°	258.5	6.3
80°-90°	55.1	1.3
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°	1141.0	27.9
0°-40°	1862.5	45.5
0°-60°	3286.7	80.3
0°-90°	4093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1475	1471	1465	1475	1475	140
15°	1408	1408	1408	1425	1425	397
25°	1279	1285	1302	1330	1336	590
35°	1104	1116	1150	1192	1205	689
45°	898	916	969	1027	1047	692
55°	674	698	769	819	815	603
65°	454	480	531	510	484	449
75°	234	266	258	224	212	245
85°	44	54	38	32	30	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1481.1	1477.0	1469.0	1477.0	1477.0
5°	1475.0	1471.0	1464.9	1475.0	1475.0
7.5°	1464.9	1460.9	1456.9	1467.0	1464.9
10°	1448.8	1446.8	1444.8	1456.9	1456.9
12.5°	1430.6	1430.6	1428.6	1442.7	1440.7
15°	1408.4	1408.4	1408.4	1424.6	1424.6
17.5°	1380.2	1384.2	1388.3	1406.4	1406.4
20°	1349.9	1354.0	1362.0	1384.2	1386.2
22.5°	1319.7	1321.7	1329.7	1356.0	1362.0
25°	1279.3	1285.4	1301.5	1329.7	1335.8
27.5°	1247.0	1249.0	1267.2	1299.5	1307.6
30°	1196.6	1210.7	1228.9	1265.2	1273.2
32.5°	1150.2	1162.3	1190.5	1228.9	1241.0
35°	1103.8	1115.9	1150.2	1192.5	1204.6
37.5°	1051.3	1069.4	1109.8	1152.2	1166.3
40°	1002.9	1019.0	1061.4	1113.8	1130.0
42.5°	950.4	966.5	1012.9	1071.5	1089.6
45°	897.9	916.1	968.6	1027.1	1047.3
47.5°	843.5	863.6	918.1	982.7	1000.8
50°	787.0	809.1	869.7	936.3	944.3
52.5°	730.5	754.7	819.2	877.8	885.8
55°	674.0	698.2	768.8	819.2	815.2
57.5°	619.5	645.7	718.3	744.6	740.5
60°	563.0	591.2	655.8	667.9	653.8
62.5°	510.5	536.7	597.3	587.2	569.0
65°	454.0	480.2	530.7	510.5	484.3
67.5°	397.5	429.8	462.1	427.8	407.6
70°	341.0	377.3	391.5	357.2	339.0
72.5°	286.5	324.9	320.8	286.5	274.4
75°	234.1	266.4	258.3	224.0	211.9
77.5°	177.6	213.9	195.7	167.5	157.4
80°	125.1	157.4	137.2	113.0	104.9
82.5°	82.7	104.9	84.7	66.6	60.5
85°	44.4	54.5	38.3	32.3	30.3
87.5°	18.2	16.1	14.1	14.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)