

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: P258643

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258643
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-L82765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4259.0 lumens
Efficiency: N/A
Efficacy: 119.0 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

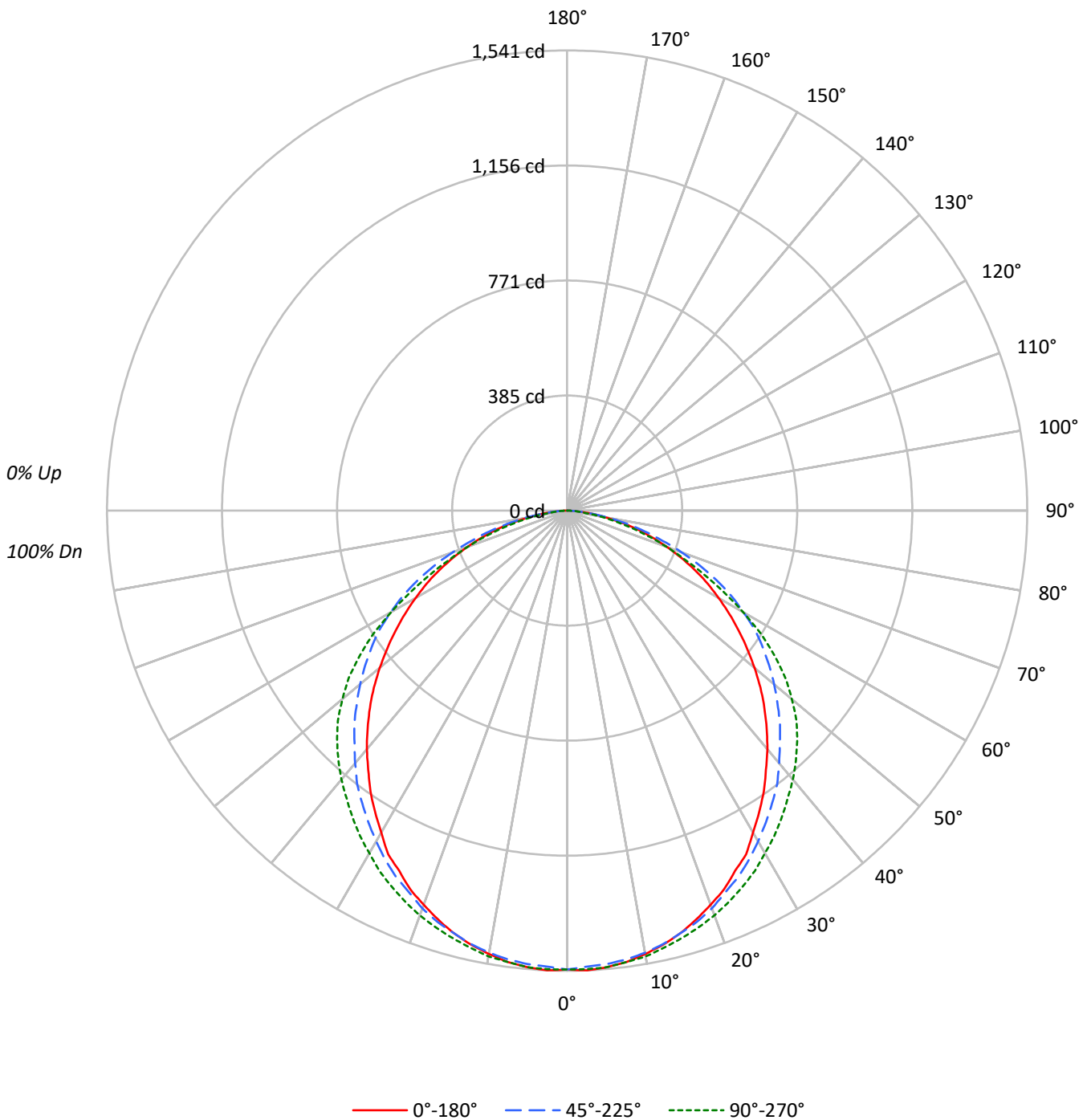
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258643

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258643

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-3500K

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°	4136	4136	4136
5°	4146	4118	4146
10°	4120	4108	4142
15°	4083	4083	4130
20°	4023	4059	4131
25°	3953	4021	4127
30°	3869	3973	4117
35°	3773	3932	4118
40°	3666	3880	4130
45°	3556	3835	4147
50°	3428	3789	4114
55°	3290	3753	3980
60°	3153	3673	3661
65°	3008	3516	3209
70°	2792	3205	2775
75°	2533	2795	2293
80°	2018	2213	1692
85°	1426	1232	973



TEST NUMBER: P258643

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.4
10°-20°	415.4	9.8
20°-30°	626.4	14.7
30°-40°	750.8	17.6
40°-50°	779.2	18.3
50°-60°	702.8	16.5
60°-70°	512.6	12.0
70°-80°	269.0	6.3
80°-90°	57.4	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°	1187.3	27.9
0°-40°	1938.1	45.5
0°-60°	3420.0	80.3
0°-90°	4259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1535	1531	1524	1535	1535	146
15°	1466	1466	1466	1482	1482	413
25°	1331	1338	1354	1384	1390	614
35°	1148	1161	1197	1241	1254	717
45°	934	953	1008	1069	1090	720
55°	701	726	800	852	848	628
65°	472	500	552	531	504	467
75°	244	277	269	233	220	255
85°	46	57	40	34	32	59
90°	0	0	0	0	0	



TEST NUMBER: P258643

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1537.0	1537.0	1537.0	1537.0	1537.0
2.5°	1541.2	1537.0	1528.6	1537.0	1537.0
5°	1534.9	1530.7	1524.4	1534.9	1534.9
7.5°	1524.4	1520.2	1516.0	1526.5	1524.4
10°	1507.6	1505.5	1503.4	1516.0	1516.0
12.5°	1488.7	1488.7	1486.6	1501.3	1499.2
15°	1465.6	1465.6	1465.6	1482.4	1482.4
17.5°	1436.2	1440.4	1444.6	1463.5	1463.5
20°	1404.7	1408.9	1417.3	1440.4	1442.5
22.5°	1373.2	1375.3	1383.7	1411.0	1417.3
25°	1331.2	1337.5	1354.3	1383.7	1390.0
27.5°	1297.6	1299.7	1318.6	1352.2	1360.6
30°	1245.1	1259.8	1278.7	1316.5	1324.9
32.5°	1196.8	1209.4	1238.8	1278.7	1291.3
35°	1148.5	1161.1	1196.8	1240.9	1253.5
37.5°	1093.9	1112.8	1154.8	1198.9	1213.6
40°	1043.5	1060.3	1104.4	1159.0	1175.8
42.5°	988.9	1005.7	1054.0	1114.9	1133.8
45°	934.3	953.2	1007.8	1068.7	1089.7
47.5°	877.7	898.7	955.3	1022.5	1041.4
50°	818.9	842.0	905.0	974.2	982.6
52.5°	760.1	785.3	852.5	913.4	921.8
55°	701.3	726.5	800.0	852.5	848.3
57.5°	644.6	671.9	747.5	774.8	770.6
60°	585.8	615.2	682.4	695.0	680.3
62.5°	531.2	558.5	621.5	611.0	592.1
65°	472.4	499.7	552.2	531.2	503.9
67.5°	413.6	447.2	480.8	445.1	424.1
70°	354.8	392.6	407.3	371.6	352.7
72.5°	298.2	338.0	333.8	298.2	285.6
75°	243.6	277.2	268.8	233.1	220.5
77.5°	184.8	222.6	203.7	174.3	163.8
80°	130.2	163.8	142.8	117.6	109.2
82.5°	86.1	109.2	88.2	69.3	63.0
85°	46.2	56.7	39.9	33.6	31.5
87.5°	18.9	16.8	14.7	14.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)