

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: P258645

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258645
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-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4430.0 lumens
Efficiency: N/A
Efficacy: 122.1 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

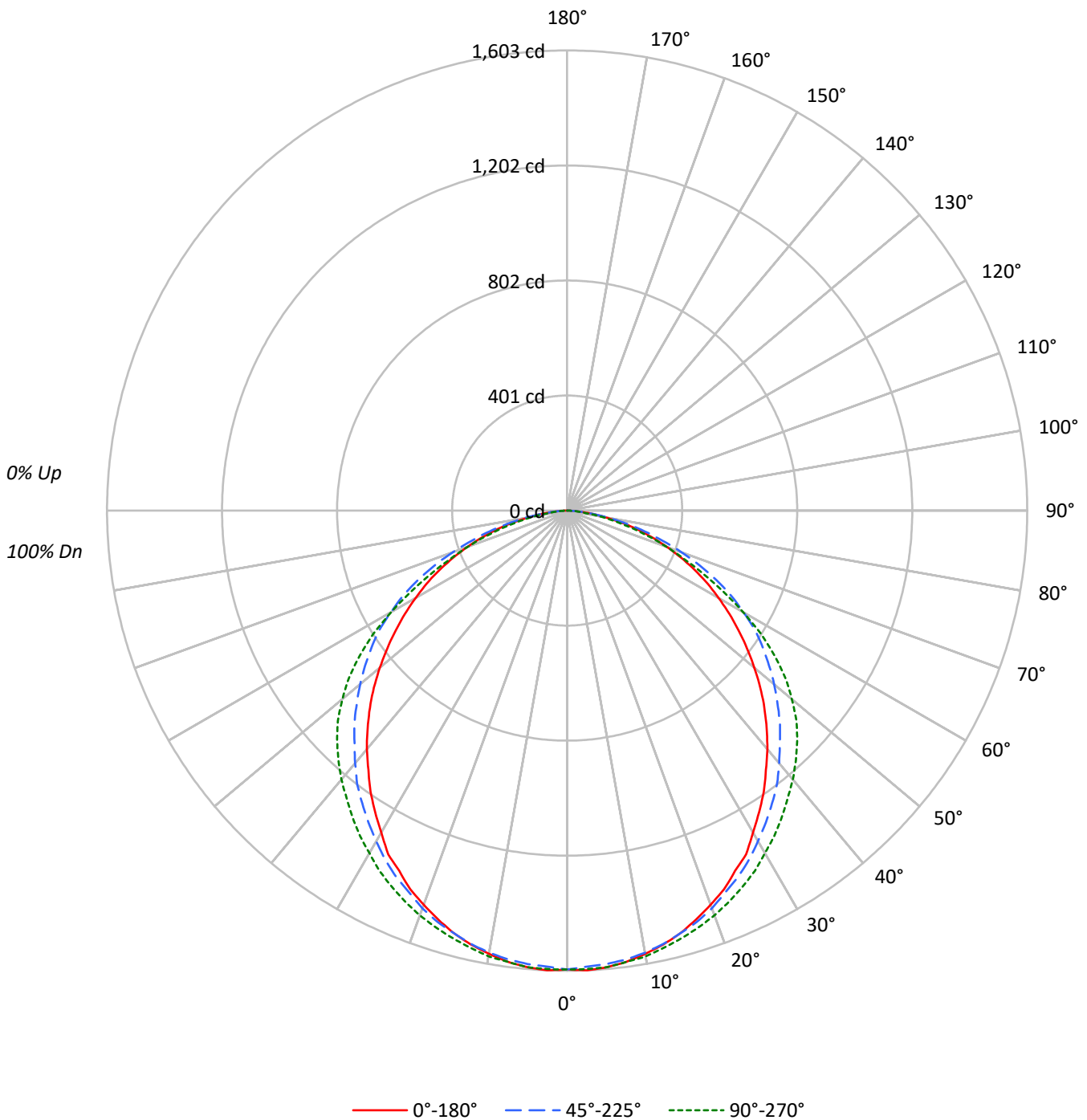
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258645

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P258645

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-4500K

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°	4302	4302	4302
5°	4313	4283	4313
10°	4285	4273	4309
15°	4247	4247	4296
20°	4184	4222	4297
25°	4111	4183	4293
30°	4024	4133	4282
35°	3924	4090	4283
40°	3813	4036	4296
45°	3699	3989	4314
50°	3566	3941	4279
55°	3422	3904	4139
60°	3279	3820	3808
65°	3129	3657	3338
70°	2904	3334	2887
75°	2634	2906	2384
80°	2098	2301	1760
85°	1482	1281	1013



TEST NUMBER: P258645

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	3.4
10°-20°	432.1	9.8
20°-30°	651.5	14.7
30°-40°	780.9	17.6
40°-50°	810.4	18.3
50°-60°	731.0	16.5
60°-70°	533.2	12.0
70°-80°	279.8	6.3
80°-90°	59.7	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°	1234.9	27.9
0°-40°	2015.9	45.5
0°-60°	3557.3	80.3
0°-90°	4430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1599	1599	1599	1599	1599	
5°	1596	1592	1586	1596	1596	151
15°	1524	1524	1524	1542	1542	429
25°	1385	1391	1409	1439	1446	639
35°	1195	1208	1245	1291	1304	746
45°	972	992	1048	1112	1134	749
55°	729	756	832	887	882	653
65°	491	520	574	552	524	486
75°	253	288	280	242	229	266
85°	48	59	42	35	33	61
90°	0	0	0	0	0	



TEST NUMBER: P258645

CATALOG NUMBER: 14CZ-LD5-44-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.7	1598.7	1598.7	1598.7	1598.7
2.5°	1603.0	1598.7	1589.9	1598.7	1598.7
5°	1596.5	1592.1	1585.6	1596.5	1596.5
7.5°	1585.6	1581.2	1576.8	1587.7	1585.6
10°	1568.1	1565.9	1563.7	1576.8	1576.8
12.5°	1548.4	1548.4	1546.2	1561.5	1559.4
15°	1524.4	1524.4	1524.4	1541.9	1541.9
17.5°	1493.8	1498.2	1502.6	1522.2	1522.2
20°	1461.1	1465.4	1474.2	1498.2	1500.4
22.5°	1428.3	1430.5	1439.2	1467.6	1474.2
25°	1384.6	1391.2	1408.7	1439.2	1445.8
27.5°	1349.7	1351.9	1371.5	1406.5	1415.2
30°	1295.1	1310.4	1330.0	1369.3	1378.1
32.5°	1244.9	1258.0	1288.5	1330.0	1343.1
35°	1194.6	1207.7	1244.9	1290.7	1303.8
37.5°	1137.8	1157.5	1201.2	1247.0	1262.3
40°	1085.4	1102.9	1148.8	1205.5	1223.0
42.5°	1028.6	1046.1	1096.3	1159.7	1179.3
45°	971.9	991.5	1048.3	1111.6	1133.5
47.5°	912.9	934.7	993.7	1063.6	1083.2
50°	851.7	875.8	941.3	1013.4	1022.1
52.5°	790.6	816.8	886.7	950.0	958.8
55°	729.4	755.7	832.1	886.7	882.3
57.5°	670.5	698.9	777.5	805.9	801.5
60°	609.3	639.9	709.8	722.9	707.6
62.5°	552.5	580.9	646.5	635.5	615.9
65°	491.4	519.8	574.4	552.5	524.2
67.5°	430.2	465.2	500.1	463.0	441.2
70°	369.1	408.4	423.7	386.6	366.9
72.5°	310.1	351.6	347.3	310.1	297.0
75°	253.3	288.3	279.5	242.4	229.3
77.5°	192.2	231.5	211.8	181.3	170.3
80°	135.4	170.3	148.5	122.3	113.6
82.5°	89.5	113.6	91.7	72.1	65.5
85°	48.0	59.0	41.5	34.9	32.8
87.5°	19.7	17.5	15.3	15.3	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)