

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: P258856

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3405.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

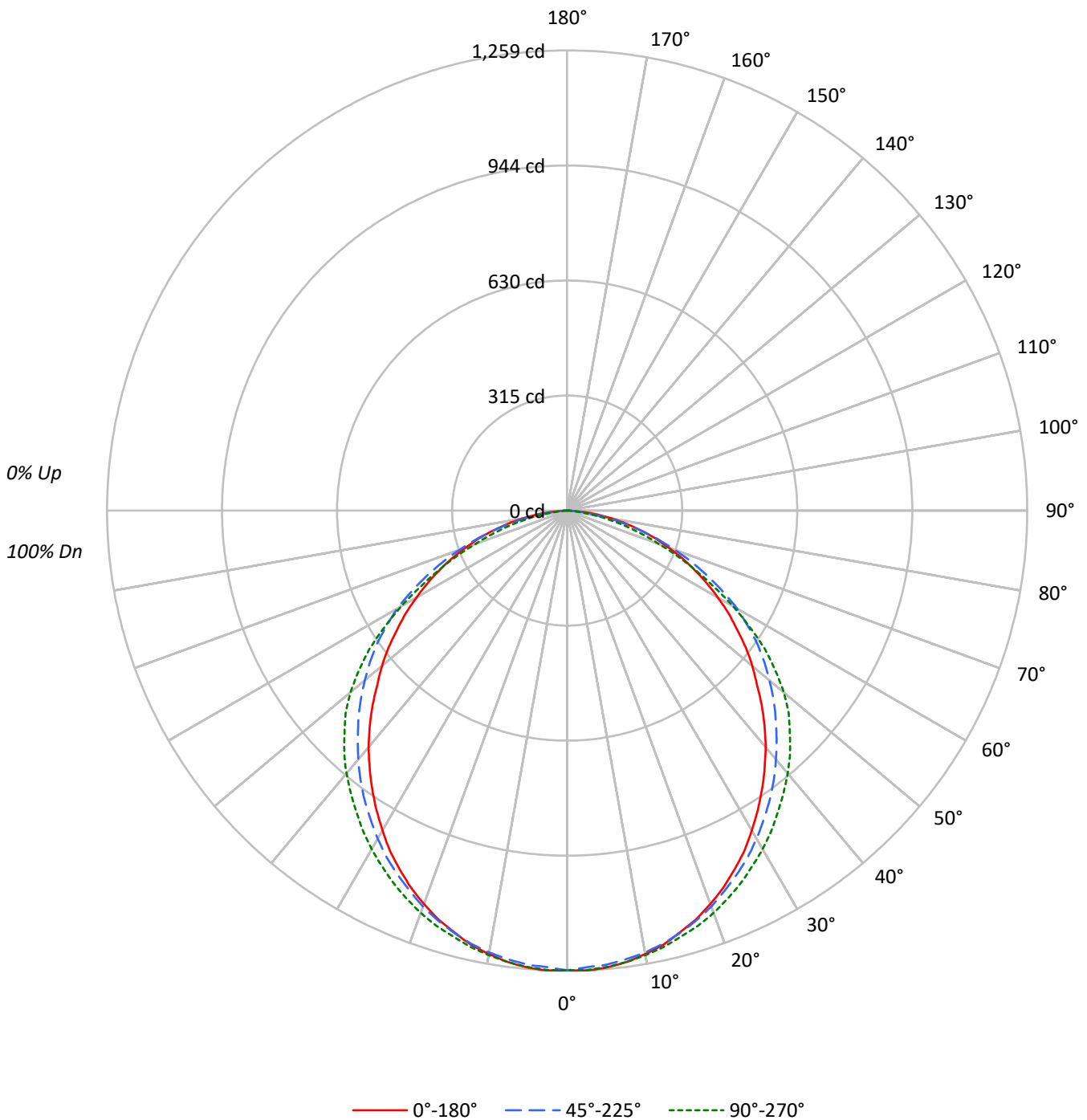
Input Watts (W): 31.062
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P258856

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P258856

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L92765-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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	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	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3385	3385	3385
5°	3390	3369	3385
10°	3366	3354	3375
15°	3327	3331	3360
20°	3280	3302	3354
25°	3216	3262	3338
30°	3140	3220	3324
35°	3055	3175	3304
40°	2969	3123	3299
45°	2864	3072	3280
50°	2769	3023	3239
55°	2662	2975	3096
60°	2564	2891	2826
65°	2454	2705	2483
70°	2316	2460	2101
75°	2162	2129	1735
80°	1905	1646	1269
85°	1501	797	704



TEST NUMBER: P258856

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.5
10°-20°	338.6	9.9
20°-30°	508.1	14.9
30°-40°	605.8	17.8
40°-50°	624.0	18.3
50°-60°	556.1	16.3
60°-70°	400.7	11.8
70°-80°	209.6	6.2
80°-90°	43.3	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°	965.6	28.4
0°-40°	1571.3	46.1
0°-60°	2751.4	80.8
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1255	1252	1247	1255	1253	119
15°	1194	1196	1196	1208	1206	337
25°	1083	1089	1098	1120	1124	499
35°	930	942	966	998	1006	582
45°	753	769	807	853	862	581
55°	568	586	634	663	660	509
65°	385	399	425	405	390	382
75°	208	218	205	178	167	220
85°	49	42	26	23	23	57
90°	0	0	0	0	0	



TEST NUMBER: P258856

CATALOG NUMBER: 14CZ-LD5-39-S-UNV-L92765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.8	1257.8	1257.8	1257.8	1257.8
2.5°	1259.3	1256.3	1250.2	1257.8	1257.8
5°	1254.8	1251.7	1247.2	1254.8	1253.3
7.5°	1245.7	1242.6	1238.1	1247.2	1245.7
10°	1232.0	1230.5	1227.5	1236.6	1235.0
12.5°	1216.8	1215.3	1213.8	1222.9	1222.9
15°	1194.1	1195.6	1195.6	1207.7	1206.2
17.5°	1172.8	1174.4	1175.9	1191.0	1191.0
20°	1145.5	1147.0	1153.1	1169.8	1171.3
22.5°	1116.7	1118.2	1125.8	1145.5	1148.6
25°	1083.3	1089.4	1098.5	1119.7	1124.3
27.5°	1049.9	1054.5	1069.7	1093.9	1097.0
30°	1010.5	1019.6	1036.3	1063.6	1069.7
32.5°	971.0	981.7	1001.4	1031.7	1039.3
35°	930.1	942.2	966.5	998.4	1005.9
37.5°	887.6	898.2	928.6	961.9	972.6
40°	845.1	855.7	889.1	927.0	939.2
42.5°	799.6	814.8	848.1	890.6	902.8
45°	752.6	769.3	807.2	852.7	861.8
47.5°	704.0	722.2	766.2	811.7	822.4
50°	661.5	678.2	722.2	766.2	773.8
52.5°	616.0	631.2	679.7	716.1	717.7
55°	567.5	585.7	634.2	663.0	660.0
57.5°	523.5	538.6	585.7	600.8	591.7
60°	476.4	490.1	537.1	538.6	525.0
62.5°	430.9	444.6	481.0	470.4	453.7
65°	385.4	399.0	424.8	405.1	389.9
67.5°	341.4	353.5	368.7	342.9	327.7
70°	294.3	311.0	312.6	282.2	267.0
72.5°	253.4	262.5	259.5	230.6	217.0
75°	207.9	218.5	204.8	177.5	166.9
77.5°	165.4	173.0	154.8	129.0	121.4
80°	122.9	127.4	106.2	86.5	81.9
82.5°	83.4	83.4	60.7	47.0	42.5
85°	48.6	42.5	25.8	22.8	22.8
87.5°	16.7	10.6	10.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)