

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: P258697

Luminaire Tested: **14CZ-LD5-44-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258697
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

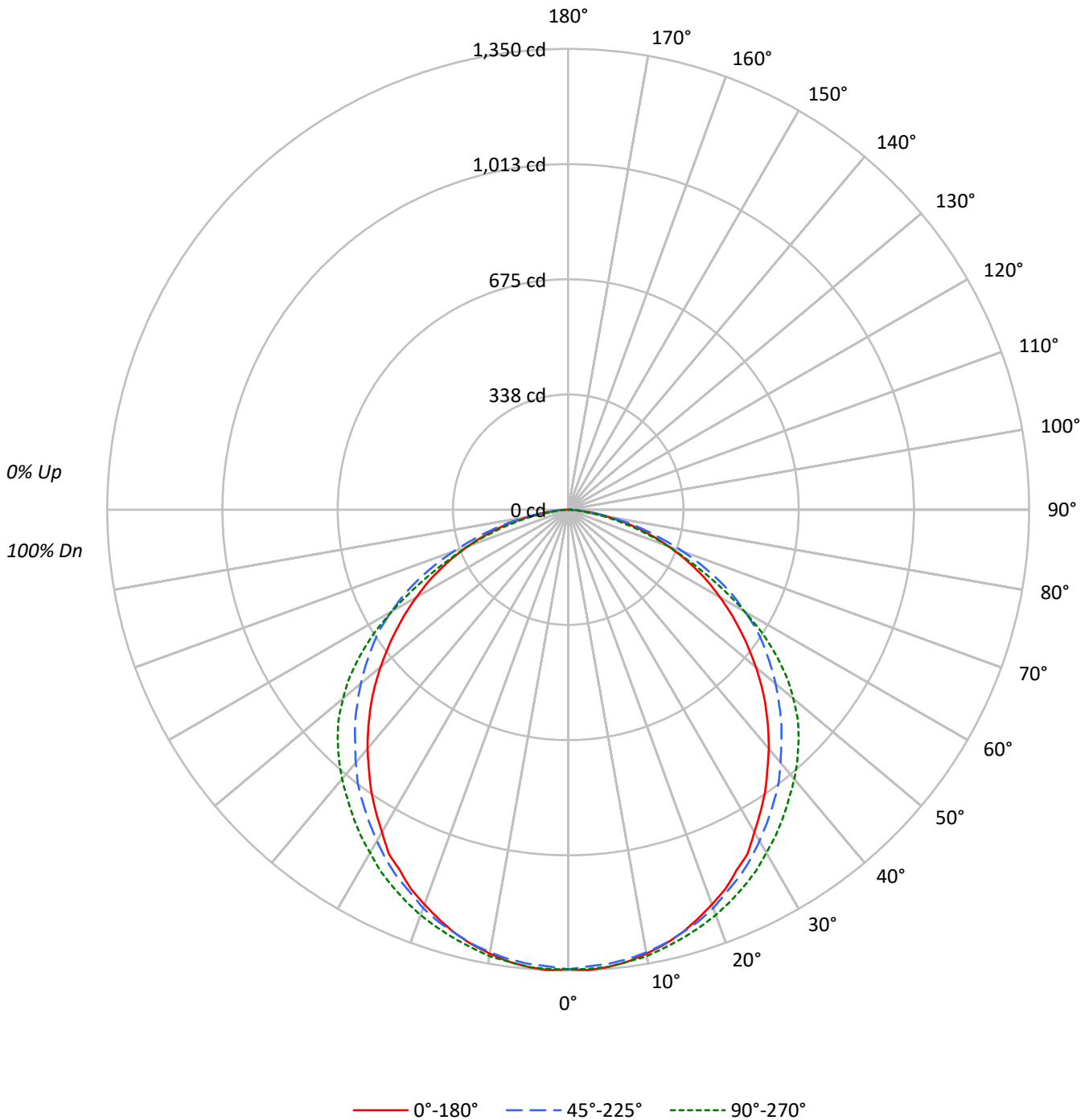
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3623	3623	3623
5°	3632	3607	3632
10°	3609	3599	3629
15°	3577	3577	3618
20°	3524	3556	3619
25°	3463	3523	3616
30°	3389	3481	3606
35°	3305	3444	3607
40°	3211	3399	3618
45°	3115	3360	3633
50°	3003	3319	3604
55°	2882	3288	3486
60°	2762	3217	3208
65°	2635	3081	2811
70°	2446	2807	2431
75°	2219	2447	2008
80°	1767	1939	1481
85°	1250	1078	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.4
10°-20°	363.9	9.8
20°-30°	548.7	14.7
30°-40°	657.7	17.6
40°-50°	682.6	18.3
50°-60°	615.7	16.5
60°-70°	449.1	12.0
70°-80°	235.6	6.3
80°-90°	50.3	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°	1040.1	27.9
0°-40°	1697.8	45.5
0°-60°	2996.0	80.3
0°-90°	3731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1345	1341	1335	1345	1345	128
15°	1284	1284	1284	1299	1299	362
25°	1166	1172	1186	1212	1218	538
35°	1006	1017	1048	1087	1098	628
45°	818	835	883	936	955	631
55°	614	636	701	747	743	550
65°	414	438	484	465	441	409
75°	213	243	235	204	193	224
85°	40	50	35	29	28	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1350.1	1346.4	1339.1	1346.4	1346.4
5°	1344.6	1340.9	1335.4	1344.6	1344.6
7.5°	1335.4	1331.7	1328.0	1337.2	1335.4
10°	1320.7	1318.8	1317.0	1328.0	1328.0
12.5°	1304.1	1304.1	1302.3	1315.1	1313.3
15°	1283.9	1283.9	1283.9	1298.6	1298.6
17.5°	1258.1	1261.8	1265.5	1282.0	1282.0
20°	1230.5	1234.2	1241.6	1261.8	1263.6
22.5°	1202.9	1204.8	1212.1	1236.1	1241.6
25°	1166.2	1171.7	1186.4	1212.1	1217.7
27.5°	1136.7	1138.6	1155.1	1184.5	1191.9
30°	1090.7	1103.6	1120.2	1153.3	1160.6
32.5°	1048.4	1059.5	1085.2	1120.2	1131.2
35°	1006.1	1017.2	1048.4	1087.1	1098.1
37.5°	958.3	974.9	1011.6	1050.3	1063.2
40°	914.2	928.9	967.5	1015.3	1030.0
42.5°	866.3	881.1	923.4	976.7	993.3
45°	818.5	835.1	882.9	936.2	954.6
47.5°	768.9	787.2	836.9	895.8	912.3
50°	717.4	737.6	792.8	853.5	860.8
52.5°	665.8	687.9	746.8	800.1	807.5
55°	614.3	636.4	700.8	746.8	743.1
57.5°	564.7	588.6	654.8	678.7	675.0
60°	513.2	538.9	597.8	608.8	596.0
62.5°	465.4	489.3	544.5	535.3	518.7
65°	413.9	437.8	483.8	465.4	441.4
67.5°	362.4	391.8	421.2	389.9	371.6
70°	310.9	344.0	356.8	325.6	309.0
72.5°	261.2	296.1	292.5	261.2	250.2
75°	213.4	242.8	235.4	204.2	193.1
77.5°	161.9	195.0	178.4	152.7	143.5
80°	114.0	143.5	125.1	103.0	95.6
82.5°	75.4	95.6	77.3	60.7	55.2
85°	40.5	49.7	34.9	29.4	27.6
87.5°	16.6	14.7	12.9	12.9	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)