

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: P258635

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258635
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-LD5-39-UNV-L82765-W2A1-U-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3894.0 lumens
Efficiency: N/A
Efficacy: 124.2 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

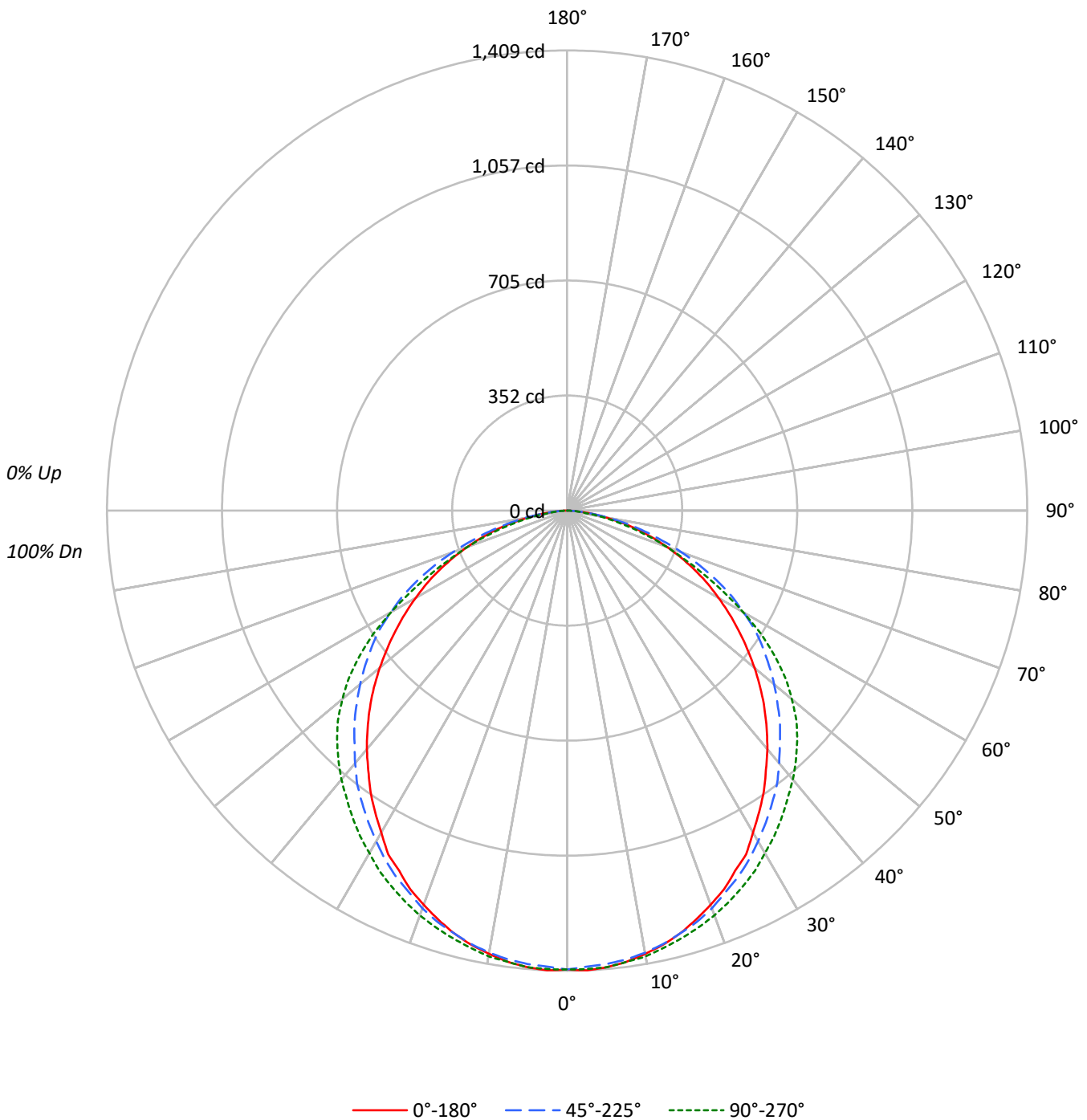
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3781	3781	3781
5°	3791	3765	3791
10°	3766	3756	3787
15°	3733	3733	3776
20°	3678	3711	3777
25°	3614	3676	3774
30°	3537	3633	3764
35°	3450	3595	3765
40°	3352	3547	3776
45°	3251	3507	3792
50°	3134	3464	3761
55°	3008	3431	3639
60°	2883	3358	3348
65°	2750	3215	2933
70°	2552	2930	2537
75°	2315	2555	2096
80°	1844	2022	1547
85°	1303	1127	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.4
10°-20°	379.8	9.8
20°-30°	572.7	14.7
30°-40°	686.5	17.6
40°-50°	712.4	18.3
50°-60°	642.6	16.5
60°-70°	468.7	12.0
70°-80°	245.9	6.3
80°-90°	52.4	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°	1085.5	27.9
0°-40°	1772.0	45.5
0°-60°	3126.9	80.3
0°-90°	3894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1403	1400	1394	1403	1403	133
15°	1340	1340	1340	1355	1355	377
25°	1217	1223	1238	1265	1271	562
35°	1050	1062	1094	1135	1146	656
45°	854	872	922	977	996	658
55°	641	664	731	779	776	574
65°	432	457	505	486	461	427
75°	223	253	246	213	202	234
85°	42	52	36	31	29	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.2	1405.2	1405.2	1405.2	1405.2
2.5°	1409.1	1405.2	1397.6	1405.2	1405.2
5°	1403.3	1399.5	1393.7	1403.3	1403.3
7.5°	1393.7	1389.9	1386.0	1395.6	1393.7
10°	1378.4	1376.4	1374.5	1386.0	1386.0
12.5°	1361.1	1361.1	1359.2	1372.6	1370.7
15°	1340.0	1340.0	1340.0	1355.3	1355.3
17.5°	1313.1	1316.9	1320.8	1338.0	1338.0
20°	1284.3	1288.1	1295.8	1316.9	1318.8
22.5°	1255.5	1257.4	1265.1	1290.1	1295.8
25°	1217.1	1222.9	1238.2	1265.1	1270.9
27.5°	1186.4	1188.3	1205.6	1236.3	1244.0
30°	1138.4	1151.8	1169.1	1203.7	1211.3
32.5°	1094.2	1105.8	1132.6	1169.1	1180.6
35°	1050.1	1061.6	1094.2	1134.6	1146.1
37.5°	1000.2	1017.5	1055.8	1096.2	1109.6
40°	954.1	969.5	1009.8	1059.7	1075.0
42.5°	904.2	919.5	963.7	1019.4	1036.6
45°	854.3	871.6	921.5	977.1	996.3
47.5°	802.4	821.6	873.5	934.9	952.2
50°	748.7	769.8	827.4	890.7	898.4
52.5°	694.9	718.0	779.4	835.1	842.8
55°	641.2	664.2	731.4	779.4	775.6
57.5°	589.4	614.3	683.4	708.4	704.5
60°	535.6	562.5	623.9	635.4	622.0
62.5°	485.7	510.6	568.2	558.6	541.4
65°	431.9	456.9	504.9	485.7	460.7
67.5°	378.2	408.9	439.6	407.0	387.8
70°	324.4	359.0	372.4	339.8	322.5
72.5°	272.6	309.1	305.2	272.6	261.1
75°	222.7	253.4	245.7	213.1	201.6
77.5°	168.9	203.5	186.2	159.3	149.7
80°	119.0	149.7	130.5	107.5	99.8
82.5°	78.7	99.8	80.6	63.4	57.6
85°	42.2	51.8	36.5	30.7	28.8
87.5°	17.3	15.4	13.4	13.4	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)