

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: P258638

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258638
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-5500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4056.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

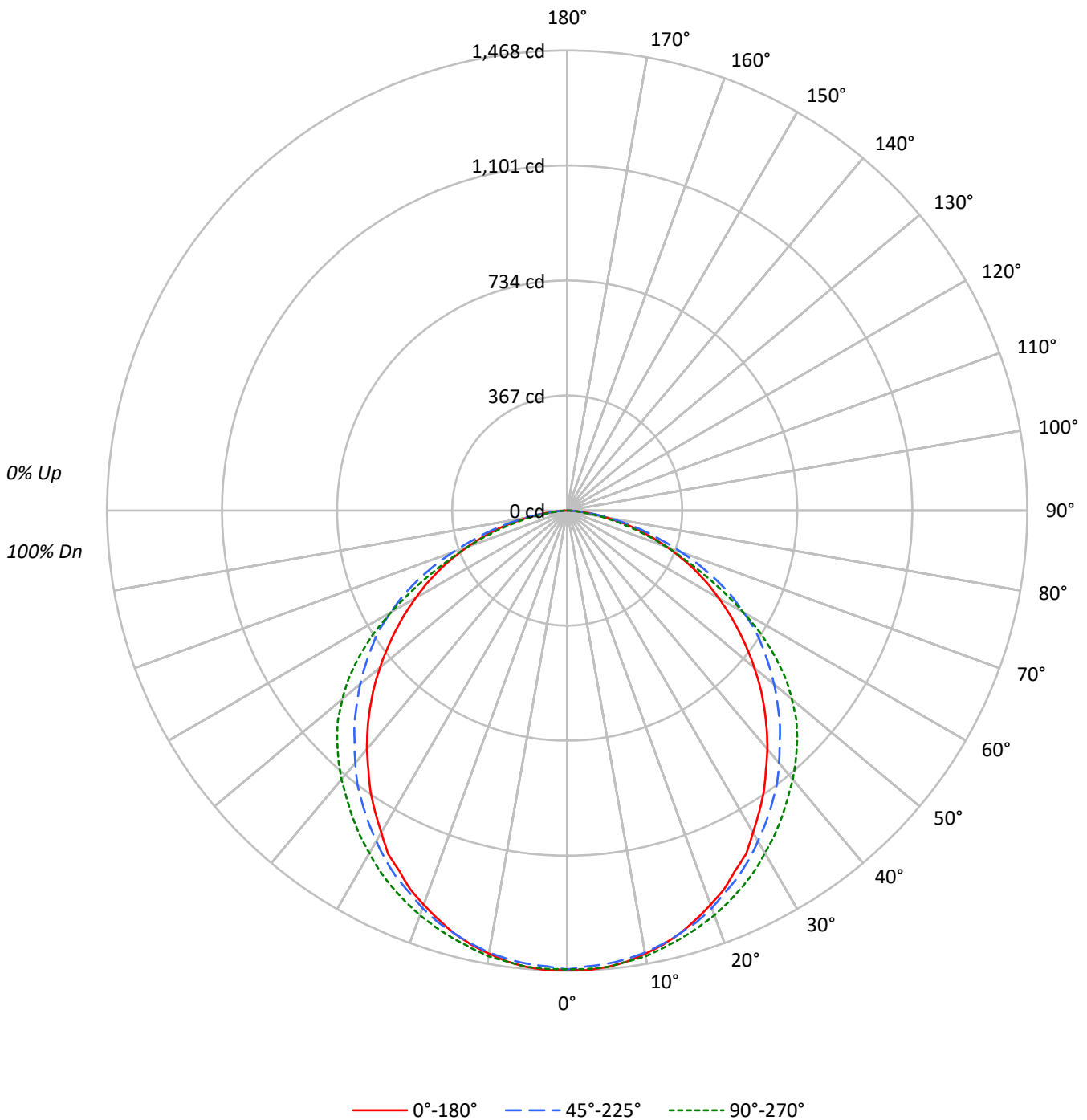
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3939	3939	3939
5°	3948	3921	3948
10°	3923	3912	3945
15°	3888	3888	3933
20°	3831	3865	3934
25°	3764	3829	3930
30°	3685	3784	3920
35°	3593	3744	3922
40°	3491	3695	3934
45°	3386	3653	3949
50°	3265	3608	3918
55°	3134	3574	3790
60°	3003	3498	3487
65°	2865	3349	3056
70°	2659	3052	2643
75°	2412	2661	2183
80°	1922	2108	1612
85°	1359	1173	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	3.4
10°-20°	395.6	9.8
20°-30°	596.5	14.7
30°-40°	715.0	17.6
40°-50°	742.0	18.3
50°-60°	669.3	16.5
60°-70°	488.2	12.0
70°-80°	256.2	6.3
80°-90°	54.6	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°	1130.6	27.9
0°-40°	1845.7	45.5
0°-60°	3257.0	80.3
0°-90°	4056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1462	1458	1452	1462	1462	139
15°	1396	1396	1396	1412	1412	393
25°	1268	1274	1290	1318	1324	585
35°	1094	1106	1140	1182	1194	683
45°	890	908	960	1018	1038	686
55°	668	692	762	812	808	598
65°	450	476	526	506	480	445
75°	232	264	256	222	210	243
85°	44	54	38	32	30	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1467.7	1463.7	1455.7	1463.7	1463.7
5°	1461.7	1457.7	1451.7	1461.7	1461.7
7.5°	1451.7	1447.7	1443.7	1453.7	1451.7
10°	1435.7	1433.7	1431.7	1443.7	1443.7
12.5°	1417.7	1417.7	1415.7	1429.7	1427.7
15°	1395.7	1395.7	1395.7	1411.7	1411.7
17.5°	1367.7	1371.7	1375.7	1393.7	1393.7
20°	1337.7	1341.7	1349.7	1371.7	1373.7
22.5°	1307.7	1309.7	1317.7	1343.7	1349.7
25°	1267.7	1273.7	1289.7	1317.7	1323.7
27.5°	1235.7	1237.7	1255.7	1287.7	1295.7
30°	1185.8	1199.8	1217.7	1253.7	1261.7
32.5°	1139.8	1151.8	1179.8	1217.7	1229.7
35°	1093.8	1105.8	1139.8	1181.8	1193.8
37.5°	1041.8	1059.8	1099.8	1141.8	1155.8
40°	993.8	1009.8	1051.8	1103.8	1119.8
42.5°	941.8	957.8	1003.8	1061.8	1079.8
45°	889.8	907.8	959.8	1017.8	1037.8
47.5°	835.8	855.8	909.8	973.8	991.8
50°	779.8	801.8	861.8	927.8	935.8
52.5°	723.8	747.8	811.8	869.8	877.8
55°	667.9	691.9	761.8	811.8	807.8
57.5°	613.9	639.9	711.9	737.8	733.8
60°	557.9	585.9	649.9	661.9	647.9
62.5°	505.9	531.9	591.9	581.9	563.9
65°	449.9	475.9	525.9	505.9	479.9
67.5°	393.9	425.9	457.9	423.9	403.9
70°	337.9	373.9	387.9	353.9	335.9
72.5°	283.9	321.9	317.9	283.9	271.9
75°	232.0	263.9	255.9	222.0	210.0
77.5°	176.0	212.0	194.0	166.0	156.0
80°	124.0	156.0	136.0	112.0	104.0
82.5°	82.0	104.0	84.0	66.0	60.0
85°	44.0	54.0	38.0	32.0	30.0
87.5°	18.0	16.0	14.0	14.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)