

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: P258634

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258634
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

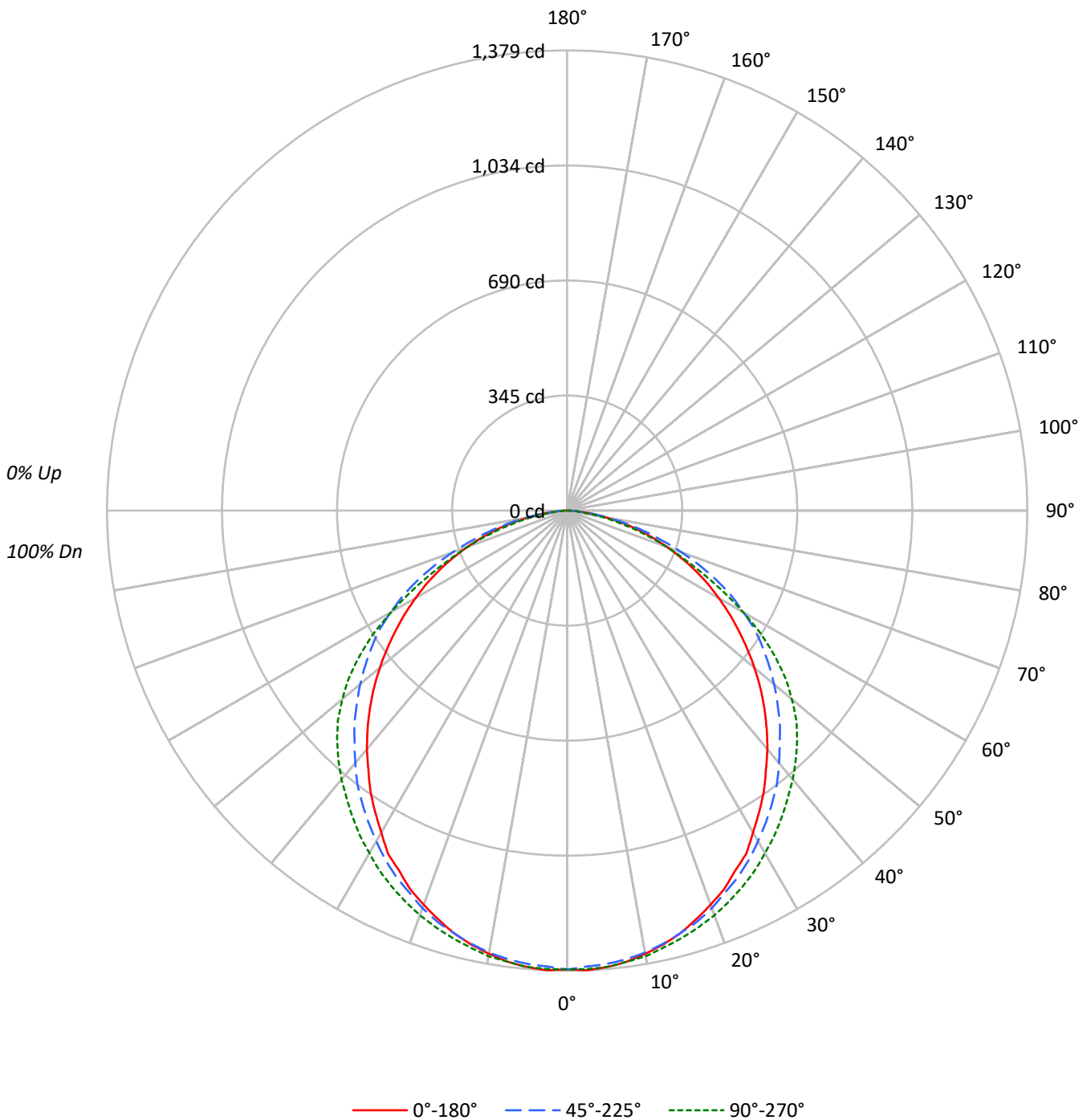
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3700	3700	3700
5°	3709	3684	3709
10°	3685	3675	3706
15°	3653	3653	3694
20°	3599	3631	3695
25°	3536	3597	3692
30°	3461	3554	3683
35°	3375	3517	3684
40°	3279	3471	3695
45°	3181	3431	3710
50°	3067	3389	3680
55°	2943	3357	3560
60°	2820	3285	3275
65°	2691	3145	2870
70°	2497	2867	2483
75°	2266	2499	2050
80°	1805	1979	1514
85°	1275	1102	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.4
10°-20°	371.6	9.8
20°-30°	560.3	14.7
30°-40°	671.7	17.6
40°-50°	697.0	18.3
50°-60°	628.7	16.5
60°-70°	458.6	12.0
70°-80°	240.6	6.3
80°-90°	51.3	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°	1062.1	27.9
0°-40°	1733.7	45.5
0°-60°	3059.5	80.3
0°-90°	3810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1373	1369	1364	1373	1373	130
15°	1311	1311	1311	1326	1326	369
25°	1191	1196	1212	1238	1243	550
35°	1027	1039	1071	1110	1121	642
45°	836	853	902	956	975	644
55°	627	650	716	763	759	562
65°	423	447	494	475	451	418
75°	218	248	240	208	197	228
85°	41	51	36	30	28	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1378.7	1374.9	1367.4	1374.9	1374.9
5°	1373.0	1369.3	1363.7	1373.0	1373.0
7.5°	1363.7	1359.9	1356.1	1365.5	1363.7
10°	1348.6	1346.7	1344.9	1356.1	1356.1
12.5°	1331.7	1331.7	1329.8	1343.0	1341.1
15°	1311.1	1311.1	1311.1	1326.1	1326.1
17.5°	1284.8	1288.5	1292.3	1309.2	1309.2
20°	1256.6	1260.3	1267.9	1288.5	1290.4
22.5°	1228.4	1230.3	1237.8	1262.2	1267.9
25°	1190.8	1196.5	1211.5	1237.8	1243.4
27.5°	1160.8	1162.7	1179.6	1209.6	1217.1
30°	1113.8	1127.0	1143.9	1177.7	1185.2
32.5°	1070.6	1081.9	1108.2	1143.9	1155.2
35°	1027.4	1038.7	1070.6	1110.1	1121.3
37.5°	978.6	995.5	1033.1	1072.5	1085.7
40°	933.5	948.5	988.0	1036.8	1051.9
42.5°	884.7	899.7	942.9	997.4	1014.3
45°	835.8	852.8	901.6	956.1	974.8
47.5°	785.1	803.9	854.6	914.7	931.6
50°	732.5	753.2	809.6	871.5	879.0
52.5°	679.9	702.5	762.6	817.1	824.6
55°	627.4	649.9	715.6	762.6	758.8
57.5°	576.6	601.1	668.7	693.1	689.3
60°	524.0	550.3	610.4	621.7	608.6
62.5°	475.2	499.6	556.0	546.6	529.7
65°	422.6	447.0	494.0	475.2	450.8
67.5°	370.0	400.1	430.1	398.2	379.4
70°	317.4	351.2	364.4	332.5	315.6
72.5°	266.7	302.4	298.7	266.7	255.4
75°	217.9	247.9	240.4	208.5	197.2
77.5°	165.3	199.1	182.2	155.9	146.5
80°	116.5	146.5	127.7	105.2	97.7
82.5°	77.0	97.7	78.9	62.0	56.3
85°	41.3	50.7	35.7	30.1	28.2
87.5°	16.9	15.0	13.1	13.1	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)