

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: P258693

Luminaire Tested: **14CZ-LD5-39-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258693  
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-L92765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3678.0 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

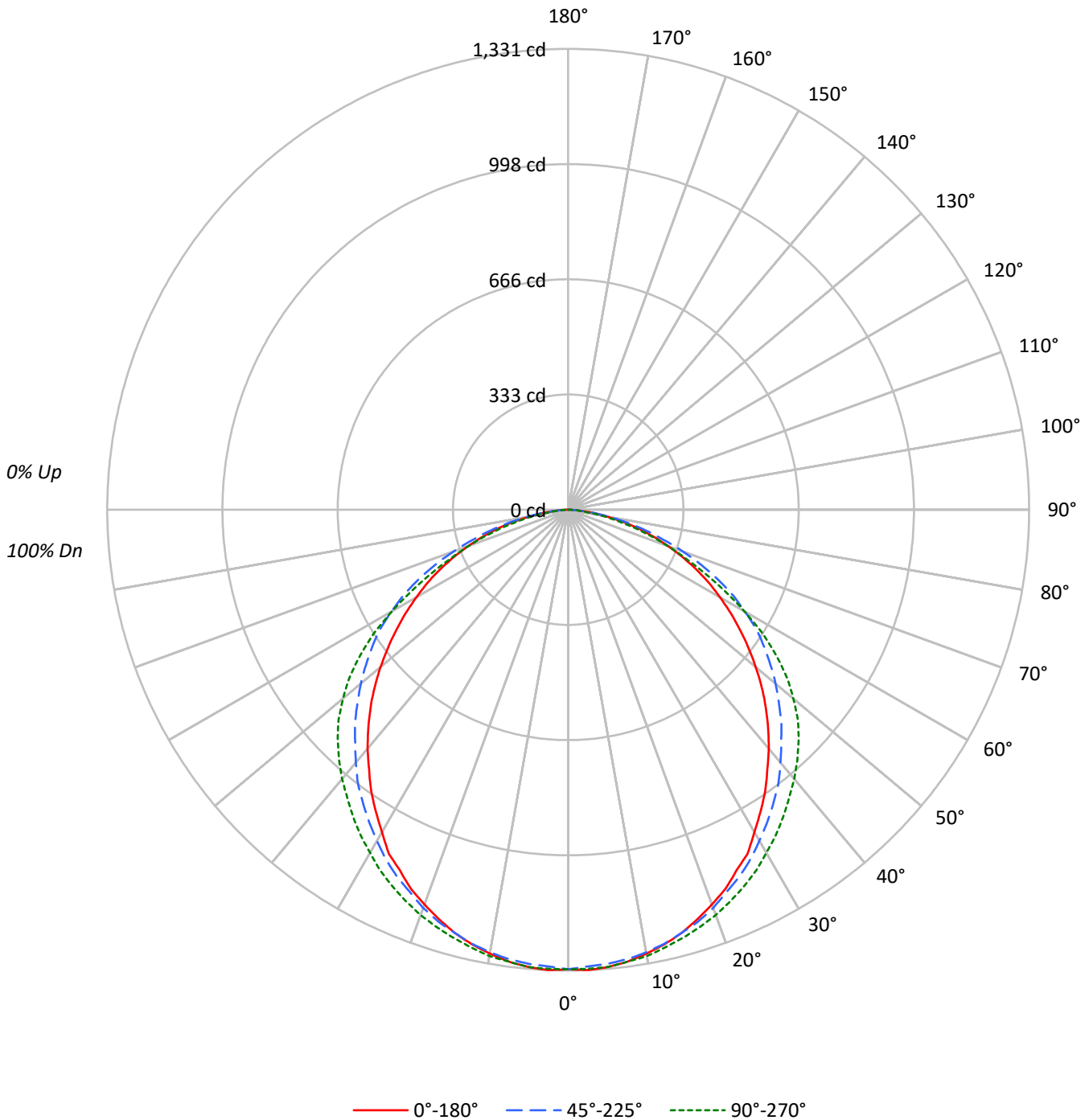
Input Watts (W): 31.899  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3572	3572	3572
5°	3581	3556	3581
10°	3557	3548	3577
15°	3526	3526	3566
20°	3474	3505	3567
25°	3413	3472	3564
30°	3341	3431	3555
35°	3258	3395	3556
40°	3166	3351	3567
45°	3071	3312	3581
50°	2961	3272	3553
55°	2841	3241	3437
60°	2723	3172	3162
65°	2598	3037	2771
70°	2411	2768	2397
75°	2187	2413	1980
80°	1742	1911	1461
85°	1232	1065	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.6	3.4
10°-20°	358.8	9.8
20°-30°	540.9	14.7
30°-40°	648.4	17.6
40°-50°	672.9	18.3
50°-60°	606.9	16.5
60°-70°	442.7	12.0
70°-80°	232.3	6.3
80°-90°	49.5	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°	1025.3	27.9
0°-40°	1673.7	45.5
0°-60°	2953.5	80.3
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1326	1322	1316	1326	1326	126
15°	1266	1266	1266	1280	1280	357
25°	1150	1155	1170	1195	1200	530
35°	992	1003	1034	1072	1082	619
45°	807	823	870	923	941	622
55°	606	627	691	736	732	542
65°	408	432	477	459	435	403
75°	210	239	232	201	190	221
85°	40	49	34	29	27	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.3	1327.3	1327.3	1327.3	1327.3
2.5°	1330.9	1327.3	1320.0	1327.3	1327.3
5°	1325.5	1321.8	1316.4	1325.5	1325.5
7.5°	1316.4	1312.8	1309.2	1318.2	1316.4
10°	1301.9	1300.1	1298.3	1309.2	1309.2
12.5°	1285.6	1285.6	1283.8	1296.5	1294.6
15°	1265.6	1265.6	1265.6	1280.1	1280.1
17.5°	1240.3	1243.9	1247.5	1263.8	1263.8
20°	1213.1	1216.7	1223.9	1243.9	1245.7
22.5°	1185.9	1187.7	1194.9	1218.5	1223.9
25°	1149.6	1155.0	1169.5	1194.9	1200.4
27.5°	1120.6	1122.4	1138.7	1167.7	1175.0
30°	1075.2	1087.9	1104.3	1136.9	1144.1
32.5°	1033.5	1044.4	1069.8	1104.3	1115.1
35°	991.8	1002.7	1033.5	1071.6	1082.5
37.5°	944.7	961.0	997.3	1035.4	1048.0
40°	901.2	915.7	953.8	1000.9	1015.4
42.5°	854.0	868.5	910.2	962.8	979.1
45°	806.9	823.2	870.4	922.9	941.1
47.5°	757.9	776.1	825.0	883.0	899.4
50°	707.2	727.1	781.5	841.3	848.6
52.5°	656.4	678.1	736.2	788.8	796.0
55°	605.6	627.4	690.8	736.2	732.5
57.5°	556.7	580.2	645.5	669.1	665.5
60°	505.9	531.3	589.3	600.2	587.5
62.5°	458.7	482.3	536.7	527.7	511.3
65°	408.0	431.5	476.9	458.7	435.2
67.5°	357.2	386.2	415.2	384.4	366.3
70°	306.4	339.1	351.8	320.9	304.6
72.5°	257.5	291.9	288.3	257.5	246.6
75°	210.3	239.3	232.1	201.3	190.4
77.5°	159.6	192.2	175.9	150.5	141.4
80°	112.4	141.4	123.3	101.5	94.3
82.5°	74.3	94.3	76.2	59.8	54.4
85°	39.9	49.0	34.5	29.0	27.2
87.5°	16.3	14.5	12.7	12.7	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)