

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: P258633

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258633  
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-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3683.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

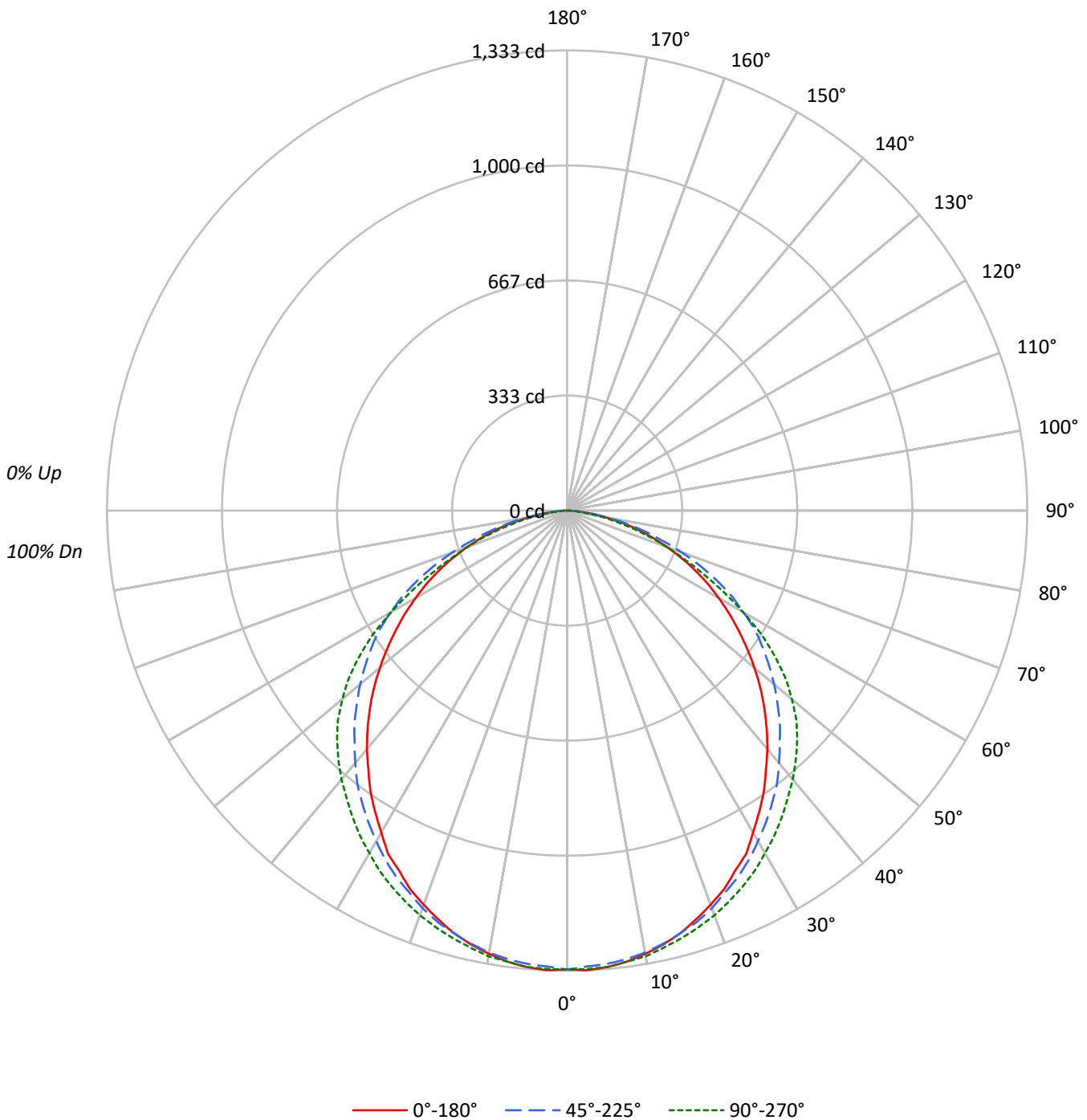
Input Watts (W): 30.783  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3577	3577	3577
5°	3585	3561	3585
10°	3562	3552	3582
15°	3531	3531	3571
20°	3479	3510	3572
25°	3418	3477	3569
30°	3346	3436	3560
35°	3263	3400	3561
40°	3170	3355	3572
45°	3075	3317	3586
50°	2964	3276	3557
55°	2845	3246	3441
60°	2726	3176	3166
65°	2601	3040	2775
70°	2415	2771	2400
75°	2190	2416	1982
80°	1745	1914	1463
85°	1232	1065	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.8	3.4
10°-20°	359.3	9.8
20°-30°	541.7	14.7
30°-40°	649.3	17.6
40°-50°	673.8	18.3
50°-60°	607.7	16.5
60°-70°	443.3	12.0
70°-80°	232.6	6.3
80°-90°	49.6	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°	1026.7	27.9
0°-40°	1676.0	45.5
0°-60°	2957.5	80.3
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1327	1324	1318	1327	1327	126
15°	1267	1267	1267	1282	1282	357
25°	1151	1157	1171	1196	1202	531
35°	993	1004	1035	1073	1084	620
45°	808	824	872	924	942	623
55°	606	628	692	737	734	543
65°	408	432	478	459	436	404
75°	211	240	232	202	191	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°	1329.1	1329.1	1329.1	1329.1	1329.1
2.5°	1332.7	1329.1	1321.8	1329.1	1329.1
5°	1327.3	1323.6	1318.2	1327.3	1327.3
7.5°	1318.2	1314.6	1310.9	1320.0	1318.2
10°	1303.7	1301.9	1300.0	1310.9	1310.9
12.5°	1287.3	1287.3	1285.5	1298.2	1296.4
15°	1267.4	1267.4	1267.4	1281.9	1281.9
17.5°	1241.9	1245.6	1249.2	1265.5	1265.5
20°	1214.7	1218.3	1225.6	1245.6	1247.4
22.5°	1187.5	1189.3	1196.5	1220.1	1225.6
25°	1151.2	1156.6	1171.1	1196.5	1202.0
27.5°	1122.1	1123.9	1140.3	1169.3	1176.6
30°	1076.7	1089.4	1105.8	1138.4	1145.7
32.5°	1034.9	1045.8	1071.3	1105.8	1116.7
35°	993.2	1004.1	1034.9	1073.1	1084.0
37.5°	946.0	962.3	998.6	1036.8	1049.5
40°	902.4	916.9	955.1	1002.3	1016.8
42.5°	855.2	869.7	911.5	964.1	980.5
45°	808.0	824.3	871.5	924.2	942.3
47.5°	759.0	777.1	826.1	884.2	900.6
50°	708.1	728.1	782.6	842.5	849.7
52.5°	657.3	679.1	737.2	789.8	797.1
55°	606.4	628.2	691.8	737.2	733.5
57.5°	557.4	581.0	646.4	670.0	666.4
60°	506.6	532.0	590.1	601.0	588.3
62.5°	459.4	483.0	537.4	528.4	512.0
65°	408.5	432.1	477.5	459.4	435.8
67.5°	357.7	386.7	415.8	384.9	366.8
70°	306.9	339.5	352.2	321.4	305.0
72.5°	257.8	292.3	288.7	257.8	246.9
75°	210.6	239.7	232.4	201.5	190.6
77.5°	159.8	192.5	176.1	150.7	141.6
80°	112.6	141.6	123.5	101.7	94.4
82.5°	74.4	94.4	76.3	59.9	54.5
85°	39.9	49.0	34.5	29.1	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)