

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: P258639

Luminaire Tested: **14CZ-LD5-39-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258639  
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-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4067.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 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

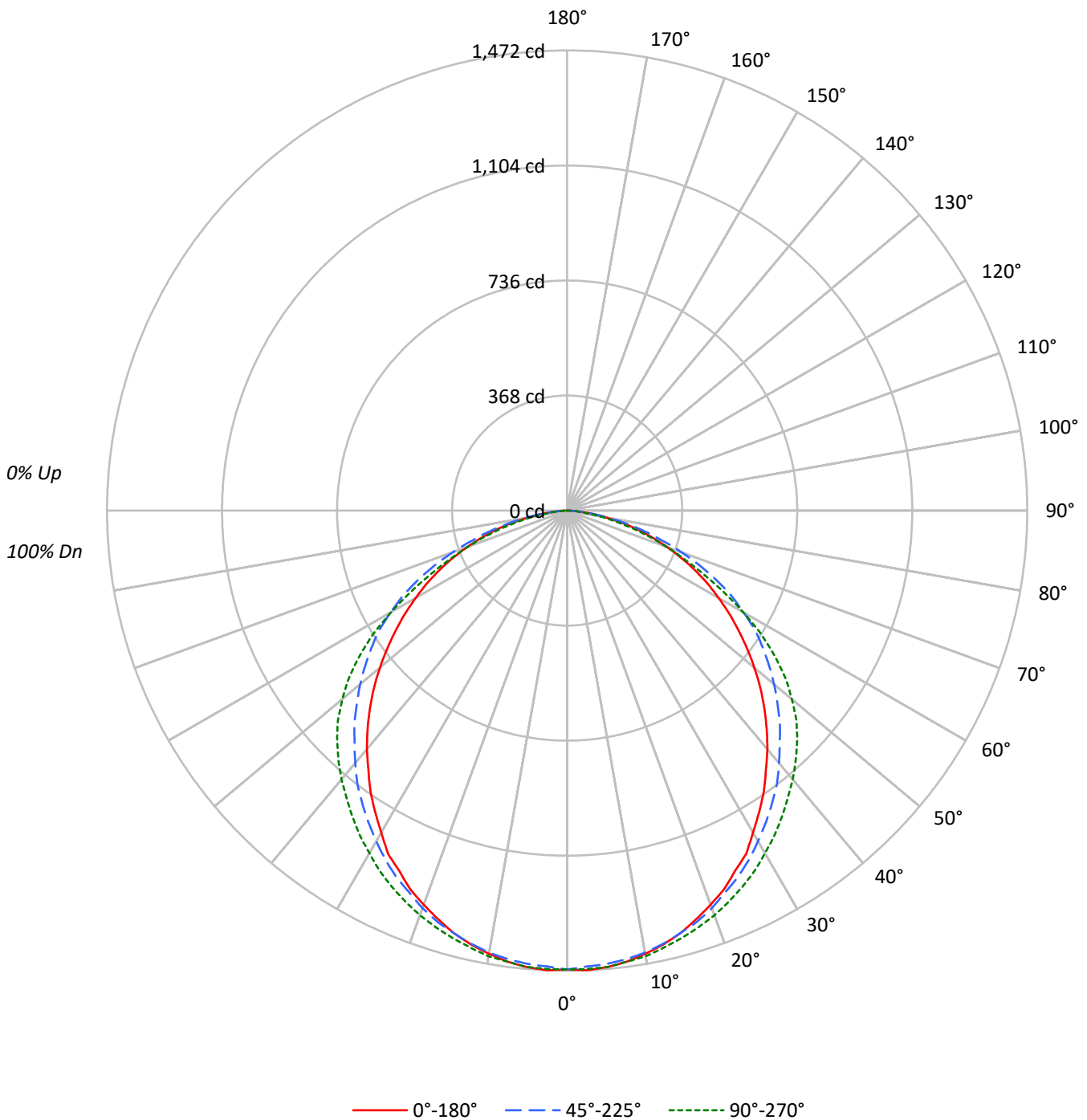
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3950	3950	3950
5°	3959	3932	3959
10°	3934	3923	3956
15°	3899	3899	3943
20°	3841	3876	3944
25°	3774	3840	3941
30°	3695	3794	3931
35°	3603	3755	3932
40°	3501	3705	3944
45°	3395	3663	3960
50°	3274	3618	3928
55°	3142	3584	3800
60°	3011	3507	3496
65°	2872	3358	3064
70°	2666	3061	2650
75°	2418	2668	2189
80°	1926	2112	1616
85°	1362	1176	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	3.4
10°-20°	396.7	9.8
20°-30°	598.1	14.7
30°-40°	717.0	17.6
40°-50°	744.0	18.3
50°-60°	671.1	16.5
60°-70°	489.5	12.0
70°-80°	256.8	6.3
80°-90°	54.8	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°	1133.7	27.9
0°-40°	1850.7	45.5
0°-60°	3265.8	80.3
0°-90°	4067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1466	1462	1456	1466	1466	139
15°	1400	1400	1400	1416	1416	394
25°	1271	1277	1293	1321	1327	587
35°	1097	1109	1143	1185	1197	685
45°	892	910	962	1020	1041	688
55°	670	694	764	814	810	600
65°	451	477	527	507	481	446
75°	233	265	257	223	210	244
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°	1467.7	1467.7	1467.7	1467.7	1467.7
2.5°	1471.7	1467.7	1459.6	1467.7	1467.7
5°	1465.7	1461.7	1455.6	1465.7	1465.7
7.5°	1455.6	1451.6	1447.6	1457.6	1455.6
10°	1439.6	1437.6	1435.6	1447.6	1447.6
12.5°	1421.6	1421.6	1419.5	1433.6	1431.6
15°	1399.5	1399.5	1399.5	1415.5	1415.5
17.5°	1371.4	1375.4	1379.4	1397.5	1397.5
20°	1341.3	1345.4	1353.4	1375.4	1377.4
22.5°	1311.3	1313.3	1321.3	1347.4	1353.4
25°	1271.2	1277.2	1293.2	1321.3	1327.3
27.5°	1239.1	1241.1	1259.1	1291.2	1299.2
30°	1189.0	1203.0	1221.0	1257.1	1265.2
32.5°	1142.9	1154.9	1183.0	1221.0	1233.1
35°	1096.7	1108.8	1142.9	1185.0	1197.0
37.5°	1044.6	1062.7	1102.8	1144.9	1158.9
40°	996.5	1012.5	1054.6	1106.8	1122.8
42.5°	944.4	960.4	1006.5	1064.7	1082.7
45°	892.2	910.3	962.4	1020.5	1040.6
47.5°	838.1	858.1	912.3	976.4	994.5
50°	782.0	804.0	864.2	930.3	938.3
52.5°	725.8	749.9	814.0	872.2	880.2
55°	669.7	693.7	763.9	814.0	810.0
57.5°	615.5	641.6	713.8	739.8	735.8
60°	559.4	587.5	651.6	663.7	649.6
62.5°	507.3	533.3	593.5	583.5	565.4
65°	451.1	477.2	527.3	507.3	481.2
67.5°	395.0	427.1	459.1	425.1	405.0
70°	338.8	374.9	389.0	354.9	336.8
72.5°	284.7	322.8	318.8	284.7	272.7
75°	232.6	264.7	256.6	222.6	210.5
77.5°	176.4	212.5	194.5	166.4	156.4
80°	124.3	156.4	136.3	112.3	104.3
82.5°	82.2	104.3	84.2	66.2	60.2
85°	44.1	54.1	38.1	32.1	30.1
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)