

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: P275722

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-S-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4096.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

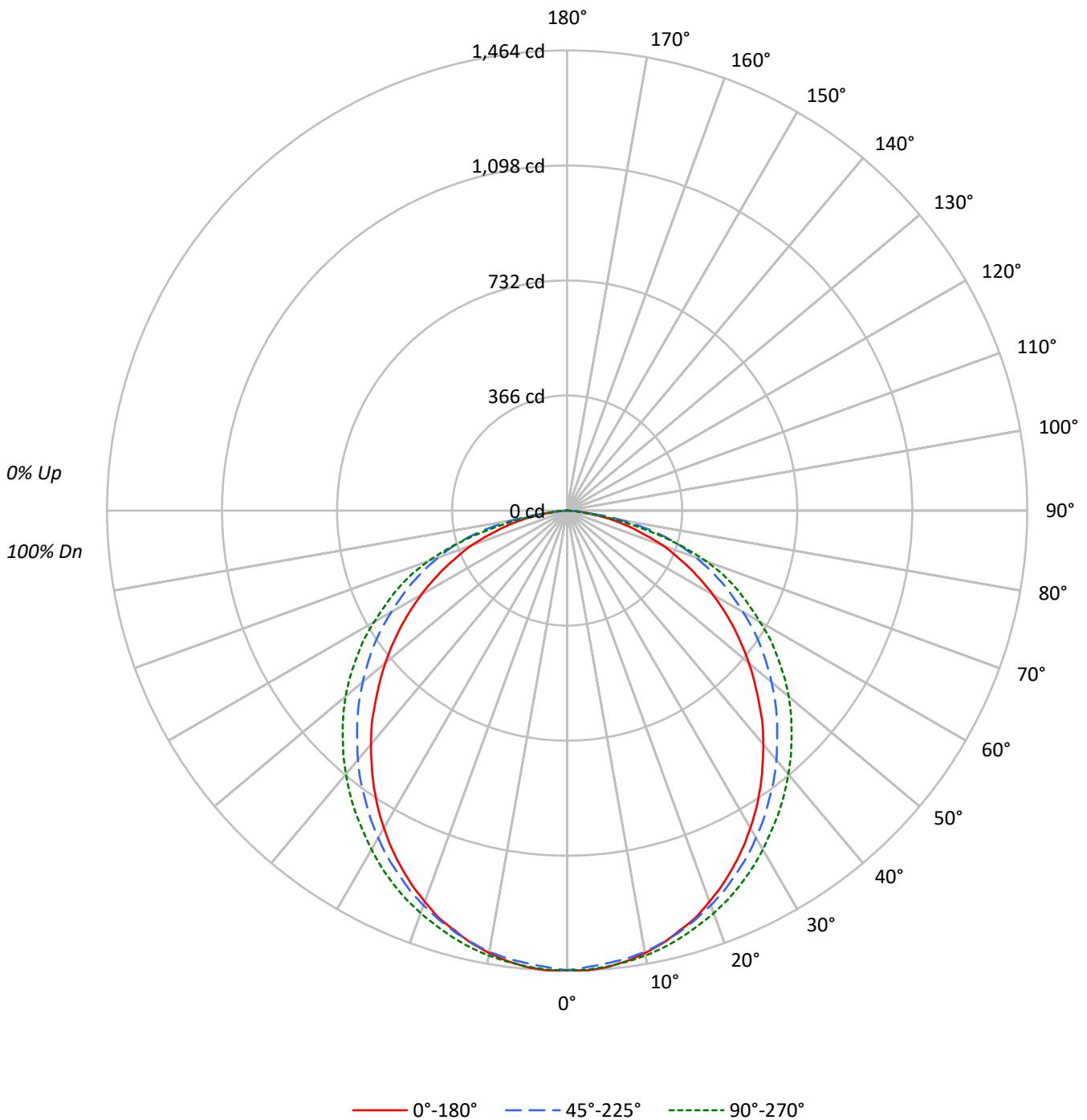
Input Watts (W): 36.735  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3935	3935	3935
5°	3939	3906	3933
10°	3907	3895	3929
15°	3853	3864	3915
20°	3792	3827	3902
25°	3714	3781	3889
30°	3622	3736	3868
35°	3523	3683	3856
40°	3410	3638	3845
45°	3285	3594	3841
50°	3163	3554	3852
55°	3030	3525	3840
60°	2885	3476	3815
65°	2716	3466	3815
70°	2556	3435	3707
75°	2217	3357	3167
80°	1795	2707	2109
85°	1192	942	627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.1	3.4
10°-20°	392.9	9.6
20°-30°	589.4	14.4
30°-40°	703.1	17.2
40°-50°	726.8	17.7
50°-60°	663.6	16.2
60°-70°	522.2	12.7
70°-80°	304.0	7.4
80°-90°	56.0	1.4
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°	1120.3	27.4
0°-40°	1823.4	44.5
0°-60°	3213.8	78.5
0°-90°	4096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1458	1454	1446	1458	1456	138
15°	1383	1385	1387	1405	1405	390
25°	1251	1257	1273	1304	1310	576
35°	1072	1086	1121	1164	1174	670
45°	863	892	944	997	1009	667
55°	646	680	751	806	818	578
65°	426	471	544	587	599	423
75°	213	264	323	317	305	227
85°	39	55	30	24	20	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.2	1462.2	1462.2	1462.2	1462.2
2.5°	1464.2	1460.2	1454.1	1464.2	1462.2
5°	1458.1	1454.1	1446.0	1458.1	1456.1
7.5°	1446.0	1441.9	1437.8	1450.0	1448.0
10°	1429.7	1427.7	1425.6	1439.9	1437.8
12.5°	1409.4	1409.4	1407.4	1423.6	1423.6
15°	1383.0	1385.0	1387.1	1405.3	1405.3
17.5°	1358.6	1356.6	1362.7	1383.0	1385.0
20°	1324.1	1328.2	1336.3	1360.7	1362.7
22.5°	1289.6	1293.6	1307.9	1332.2	1338.3
25°	1251.0	1257.1	1273.3	1303.8	1309.9
27.5°	1210.4	1218.5	1240.8	1273.3	1279.4
30°	1165.7	1177.9	1202.3	1238.8	1244.9
32.5°	1121.0	1133.2	1163.7	1200.2	1208.3
35°	1072.3	1086.5	1121.0	1163.7	1173.8
37.5°	1021.5	1039.8	1080.4	1123.1	1135.2
40°	970.7	991.0	1035.7	1080.4	1094.6
42.5°	920.0	940.3	989.0	1039.8	1054.0
45°	863.1	891.5	944.3	997.1	1009.3
47.5°	808.3	838.7	897.6	950.4	966.7
50°	755.5	785.9	848.9	903.7	920.0
52.5°	700.6	733.1	800.2	857.0	871.2
55°	645.8	680.3	751.4	806.2	818.4
57.5°	591.0	627.5	700.6	753.4	767.7
60°	536.1	574.7	645.8	698.6	708.8
62.5°	481.3	521.9	595.0	641.7	651.9
65°	426.5	471.2	544.3	586.9	599.1
67.5°	373.7	418.4	489.4	530.0	540.2
70°	324.9	365.6	436.6	467.1	471.2
72.5°	264.0	314.8	383.8	400.1	389.9
75°	213.2	264.0	322.9	316.8	304.6
77.5°	162.5	213.2	251.8	231.5	215.3
80°	115.8	166.5	174.7	144.2	136.1
82.5°	75.1	115.8	97.5	75.1	60.9
85°	38.6	54.8	30.5	24.4	20.3
87.5°	12.2	8.1	4.1	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)