

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: P275499

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275499  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4472.0 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

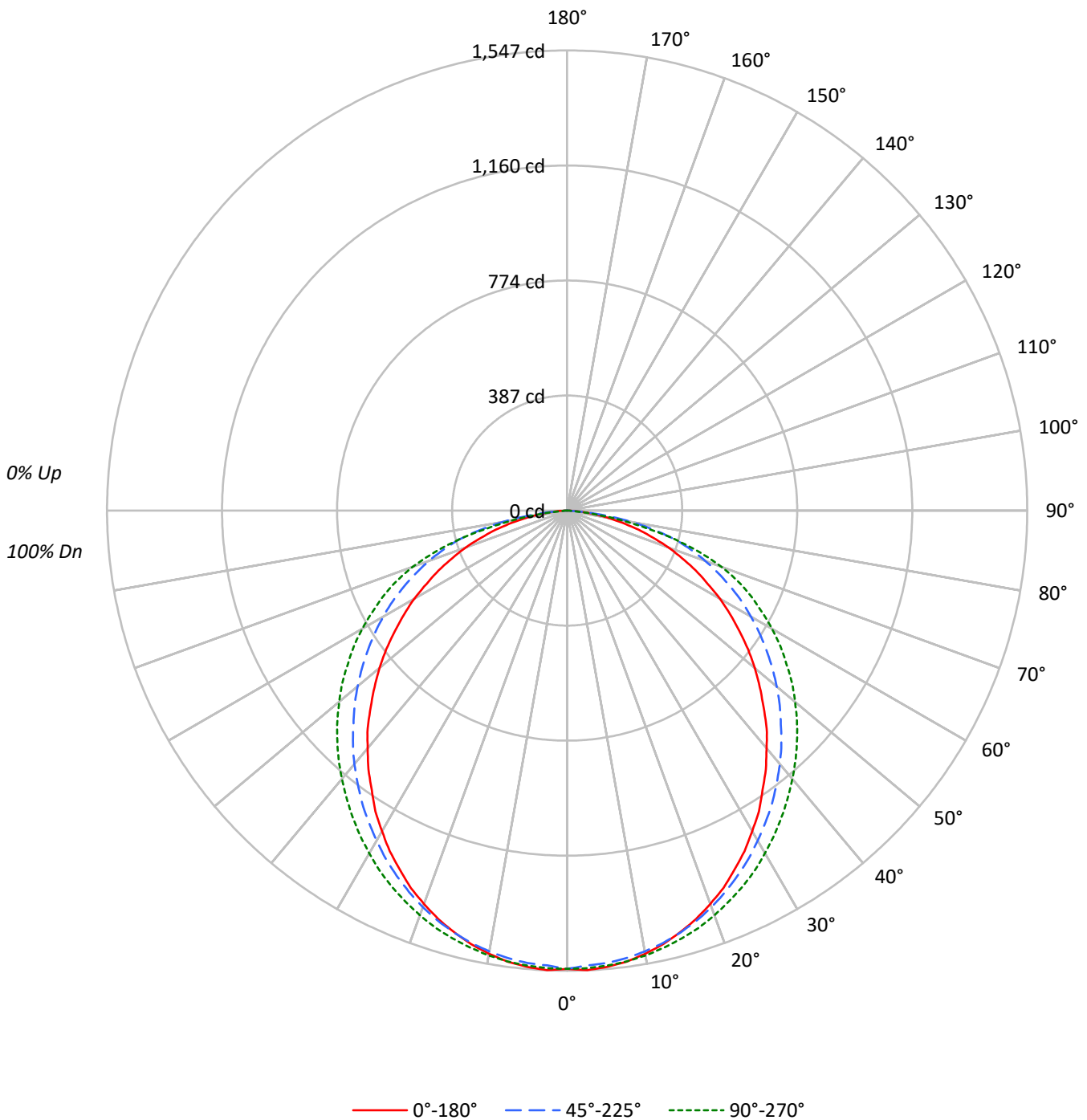
Input Watts (W): 36.642  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	4146	4146	4146
5°	4159	4124	4148
10°	4133	4112	4150
15°	4089	4092	4148
20°	4029	4064	4146
25°	3953	4024	4142
30°	3867	3982	4133
35°	3764	3947	4131
40°	3664	3909	4137
45°	3552	3867	4159
50°	3448	3849	4187
55°	3317	3836	4224
60°	3198	3843	4282
65°	3035	3854	4350
70°	2848	3884	4346
75°	2582	3919	3929
80°	2117	3384	2797
85°	1572	1602	645



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	3.3
10°-20°	416.4	9.3
20°-30°	627.3	14.0
30°-40°	752.8	16.8
40°-50°	784.6	17.5
50°-60°	726.4	16.2
60°-70°	586.9	13.1
70°-80°	357.8	8.0
80°-90°	73.9	1.7
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°	1189.6	26.6
0°-40°	1942.4	43.4
0°-60°	3453.4	77.2
0°-90°	4472.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4472.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1541	1541	1541	1541	1541	
5°	1540	1536	1527	1538	1536	146
15°	1468	1469	1469	1489	1489	414
25°	1331	1339	1355	1389	1395	614
35°	1146	1164	1202	1246	1257	718
45°	933	961	1016	1073	1093	721
55°	707	744	818	882	900	633
65°	477	524	605	666	683	471
75°	248	303	377	383	378	261
85°	51	76	52	29	21	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1540.6	1540.6	1540.6	1540.6	1540.6
2.5°	1546.6	1541.6	1530.6	1541.6	1539.6
5°	1539.6	1535.6	1526.7	1537.6	1535.6
7.5°	1529.6	1525.7	1517.7	1530.6	1528.7
10°	1512.7	1510.7	1504.7	1519.7	1518.7
12.5°	1492.8	1491.8	1488.8	1505.7	1504.7
15°	1467.8	1468.8	1468.8	1488.8	1488.8
17.5°	1439.9	1441.9	1445.9	1467.8	1470.8
20°	1407.0	1411.0	1419.0	1443.9	1447.9
22.5°	1373.1	1376.1	1388.1	1418.0	1422.0
25°	1331.2	1339.2	1355.1	1389.0	1395.0
27.5°	1291.3	1298.3	1320.2	1355.1	1365.1
30°	1244.5	1255.4	1281.4	1319.2	1330.2
32.5°	1199.6	1211.6	1241.5	1285.3	1295.3
35°	1145.7	1163.7	1201.6	1245.5	1257.4
37.5°	1096.9	1113.8	1156.7	1204.6	1218.5
40°	1043.0	1064.0	1112.8	1163.7	1177.7
42.5°	993.2	1013.1	1066.0	1117.8	1136.8
45°	933.3	961.3	1016.1	1072.9	1092.9
47.5°	878.5	906.4	969.2	1030.1	1048.0
50°	823.7	853.6	919.4	982.2	1000.2
52.5°	766.8	798.7	869.5	932.3	953.3
55°	707.0	743.9	817.7	881.5	900.4
57.5°	650.2	688.0	766.8	831.6	850.6
60°	594.3	633.2	714.0	775.8	795.7
62.5°	532.5	578.4	662.1	722.9	737.9
65°	476.6	523.5	605.3	666.1	683.1
67.5°	417.8	468.7	550.4	606.3	622.2
70°	362.0	414.8	493.6	545.4	552.4
72.5°	302.1	356.0	435.8	468.7	468.7
75°	248.3	303.1	376.9	382.9	377.9
77.5°	189.5	250.3	298.2	286.2	274.2
80°	136.6	196.4	218.4	196.4	180.5
82.5°	91.7	142.6	131.6	104.7	92.7
85°	50.9	75.8	51.9	28.9	20.9
87.5°	18.9	17.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)