

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: P275662

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275662  
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-L82765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4102.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 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

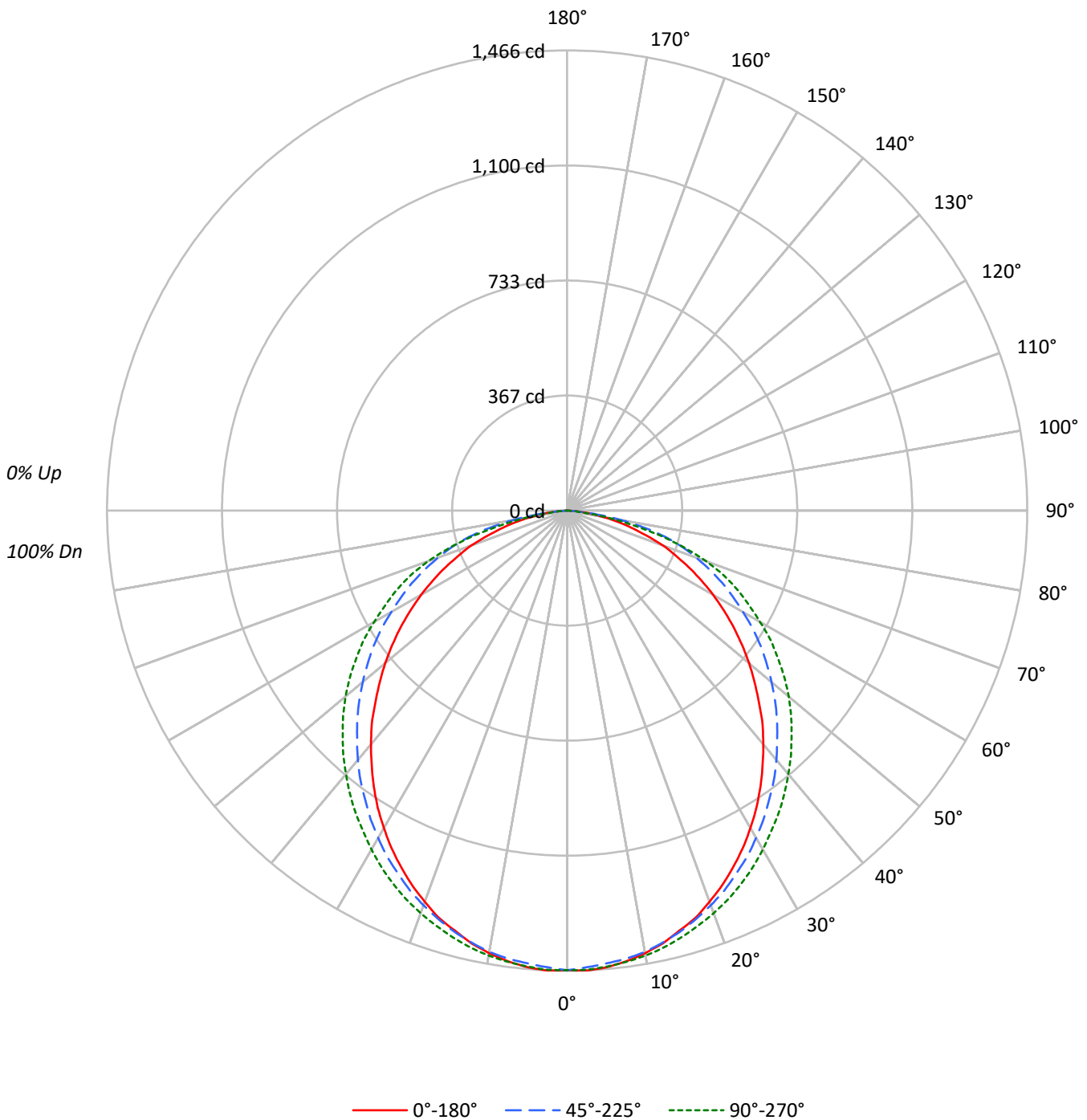
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3940	3940	3940
5°	3945	3912	3939
10°	3912	3901	3935
15°	3858	3870	3921
20°	3797	3832	3908
25°	3720	3786	3895
30°	3627	3741	3874
35°	3528	3688	3862
40°	3415	3644	3851
45°	3290	3599	3847
50°	3167	3559	3857
55°	3035	3530	3845
60°	2890	3481	3820
65°	2720	3471	3820
70°	2560	3441	3712
75°	2221	3362	3172
80°	1796	2710	2112
85°	1192	942	627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.3	3.4
10°-20°	393.5	9.6
20°-30°	590.2	14.4
30°-40°	704.1	17.2
40°-50°	727.9	17.7
50°-60°	664.5	16.2
60°-70°	523.0	12.7
70°-80°	304.4	7.4
80°-90°	56.1	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°	1122.0	27.4
0°-40°	1826.1	44.5
0°-60°	3218.5	78.5
0°-90°	4102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1460	1456	1448	1460	1458	138
15°	1385	1387	1389	1407	1407	391
25°	1253	1259	1275	1306	1312	577
35°	1074	1088	1123	1165	1176	671
45°	864	893	946	999	1011	668
55°	647	681	752	807	820	578
65°	427	472	545	588	600	424
75°	214	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°	1464.3	1464.3	1464.3	1464.3	1464.3
2.5°	1466.4	1462.3	1456.2	1466.4	1464.3
5°	1460.3	1456.2	1448.1	1460.3	1458.2
7.5°	1448.1	1444.0	1439.9	1452.1	1450.1
10°	1431.8	1429.8	1427.7	1442.0	1439.9
12.5°	1411.5	1411.5	1409.4	1425.7	1425.7
15°	1385.0	1387.1	1389.1	1407.4	1407.4
17.5°	1360.6	1358.6	1364.7	1385.0	1387.1
20°	1326.0	1330.1	1338.2	1362.7	1364.7
22.5°	1291.5	1295.5	1309.8	1334.2	1340.3
25°	1252.8	1258.9	1275.2	1305.7	1311.8
27.5°	1212.2	1220.3	1242.7	1275.2	1281.3
30°	1167.4	1179.6	1204.0	1240.6	1246.7
32.5°	1122.7	1134.9	1165.4	1202.0	1210.1
35°	1073.9	1088.1	1122.7	1165.4	1175.5
37.5°	1023.0	1041.3	1082.0	1124.7	1136.9
40°	972.2	992.5	1037.2	1082.0	1096.2
42.5°	921.3	941.7	990.5	1041.3	1055.5
45°	864.4	892.8	945.7	998.6	1010.8
47.5°	809.5	840.0	898.9	951.8	968.1
50°	756.6	787.1	850.1	905.0	921.3
52.5°	701.7	734.2	801.3	858.3	872.5
55°	646.8	681.3	752.5	807.4	819.6
57.5°	591.8	628.4	701.7	754.5	768.8
60°	536.9	575.6	646.8	699.6	709.8
62.5°	482.0	522.7	595.9	642.7	652.9
65°	427.1	471.8	545.1	587.8	600.0
67.5°	374.2	419.0	490.1	530.8	541.0
70°	325.4	366.1	437.3	467.8	471.8
72.5°	264.4	315.2	384.4	400.7	390.5
75°	213.6	264.4	323.4	317.3	305.1
77.5°	162.7	213.6	252.2	231.9	215.6
80°	115.9	166.8	174.9	144.4	136.3
82.5°	75.3	115.9	97.6	75.3	61.0
85°	38.6	54.9	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)