

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: P275553

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275553
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-L92765-W2A1-U-5500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4036.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

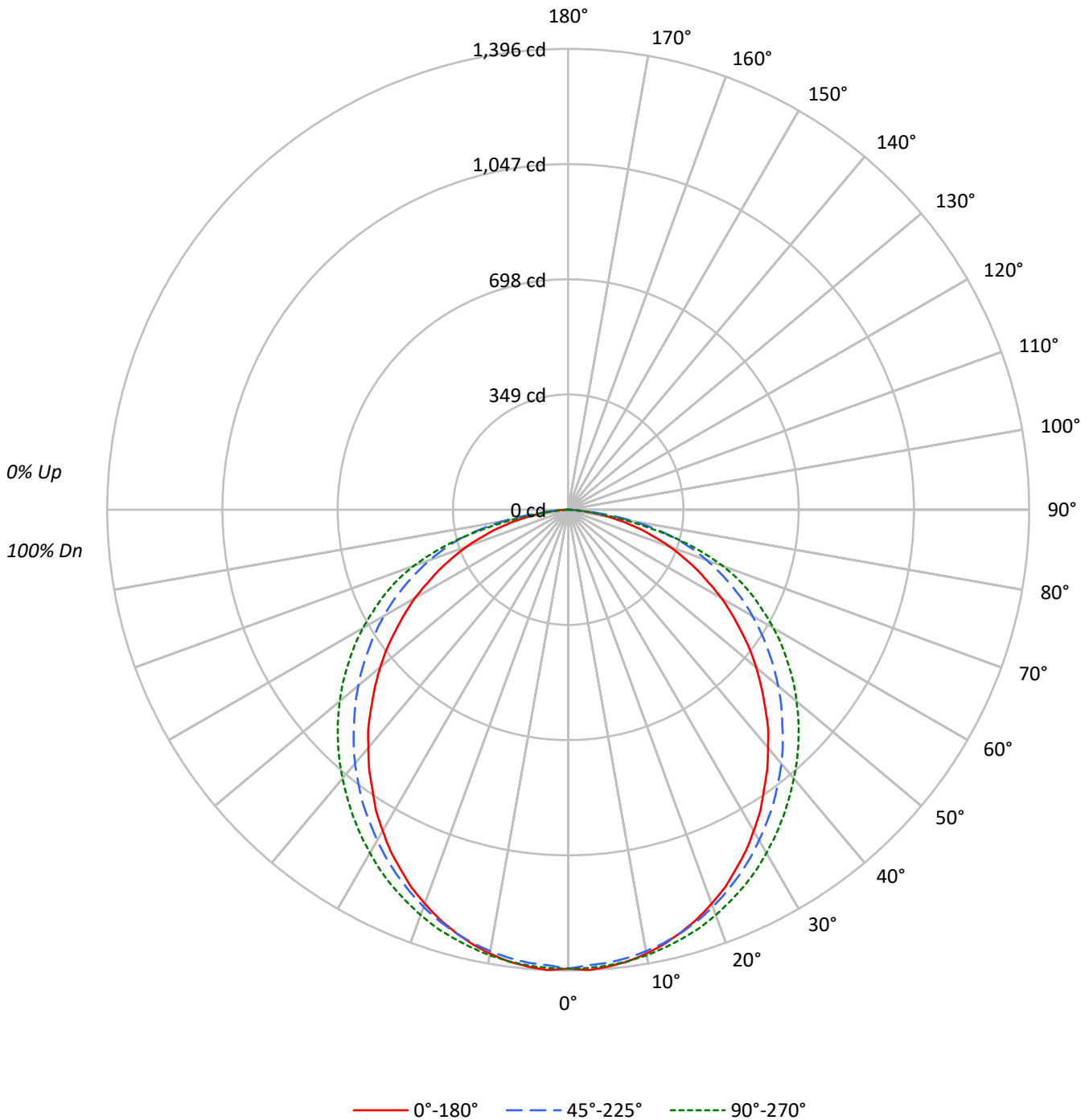
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3742	3742	3742
5°	3753	3722	3744
10°	3730	3711	3745
15°	3690	3693	3743
20°	3636	3667	3742
25°	3567	3631	3738
30°	3490	3593	3730
35°	3397	3562	3728
40°	3307	3528	3733
45°	3205	3490	3753
50°	3112	3473	3779
55°	2994	3462	3813
60°	2887	3468	3865
65°	2739	3479	3926
70°	2570	3505	3923
75°	2330	3537	3546
80°	1911	3054	2524
85°	1417	1445	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.3
10°-20°	375.8	9.3
20°-30°	566.2	14.0
30°-40°	679.4	16.8
40°-50°	708.1	17.5
50°-60°	655.6	16.2
60°-70°	529.7	13.1
70°-80°	323.0	8.0
80°-90°	66.7	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°	1073.6	26.6
0°-40°	1753.0	43.4
0°-60°	3116.7	77.2
0°-90°	4036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1390	1386	1378	1388	1386	132
15°	1325	1326	1326	1344	1344	373
25°	1201	1209	1223	1254	1259	554
35°	1034	1050	1084	1124	1135	648
45°	842	868	917	968	986	651
55°	638	671	738	796	813	572
65°	430	472	546	601	616	425
75°	224	274	340	346	341	235
85°	46	68	47	26	19	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.4	1390.4	1390.4	1390.4	1390.4
2.5°	1395.8	1391.3	1381.4	1391.3	1389.5
5°	1389.5	1385.9	1377.8	1387.7	1385.9
7.5°	1380.5	1376.9	1369.7	1381.4	1379.6
10°	1365.2	1363.4	1358.0	1371.5	1370.6
12.5°	1347.2	1346.3	1343.6	1358.9	1358.0
15°	1324.7	1325.6	1325.6	1343.6	1343.6
17.5°	1299.5	1301.3	1304.9	1324.7	1327.4
20°	1269.8	1273.4	1280.6	1303.1	1306.7
22.5°	1239.2	1241.9	1252.7	1279.7	1283.3
25°	1201.4	1208.6	1223.0	1253.6	1259.0
27.5°	1165.4	1171.7	1191.5	1223.0	1232.0
30°	1123.1	1133.0	1156.4	1190.6	1200.5
32.5°	1082.6	1093.4	1120.4	1160.0	1169.0
35°	1034.0	1050.2	1084.4	1124.0	1134.8
37.5°	989.9	1005.2	1043.9	1087.1	1099.7
40°	941.3	960.2	1004.3	1050.2	1062.8
42.5°	896.3	914.3	962.0	1008.8	1025.9
45°	842.3	867.5	917.0	968.3	986.3
47.5°	792.9	818.1	874.7	929.6	945.8
50°	743.4	770.4	829.7	886.4	902.6
52.5°	692.1	720.9	784.8	841.4	860.3
55°	638.1	671.4	738.0	795.6	812.7
57.5°	586.8	621.0	692.1	750.6	767.7
60°	536.4	571.5	644.4	700.2	718.2
62.5°	480.6	522.0	597.6	652.5	666.0
65°	430.2	472.5	546.3	601.2	616.5
67.5°	377.1	423.0	496.8	547.2	561.6
70°	326.7	374.4	445.5	492.3	498.6
72.5°	272.7	321.3	393.3	423.0	423.0
75°	224.1	273.6	340.2	345.6	341.1
77.5°	171.0	225.9	269.1	258.3	247.5
80°	123.3	177.3	197.1	177.3	162.9
82.5°	82.8	128.7	118.8	94.5	83.7
85°	45.9	68.4	46.8	26.1	18.9
87.5°	17.1	15.3	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)