

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: P275500

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275500
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-5700K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4483.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

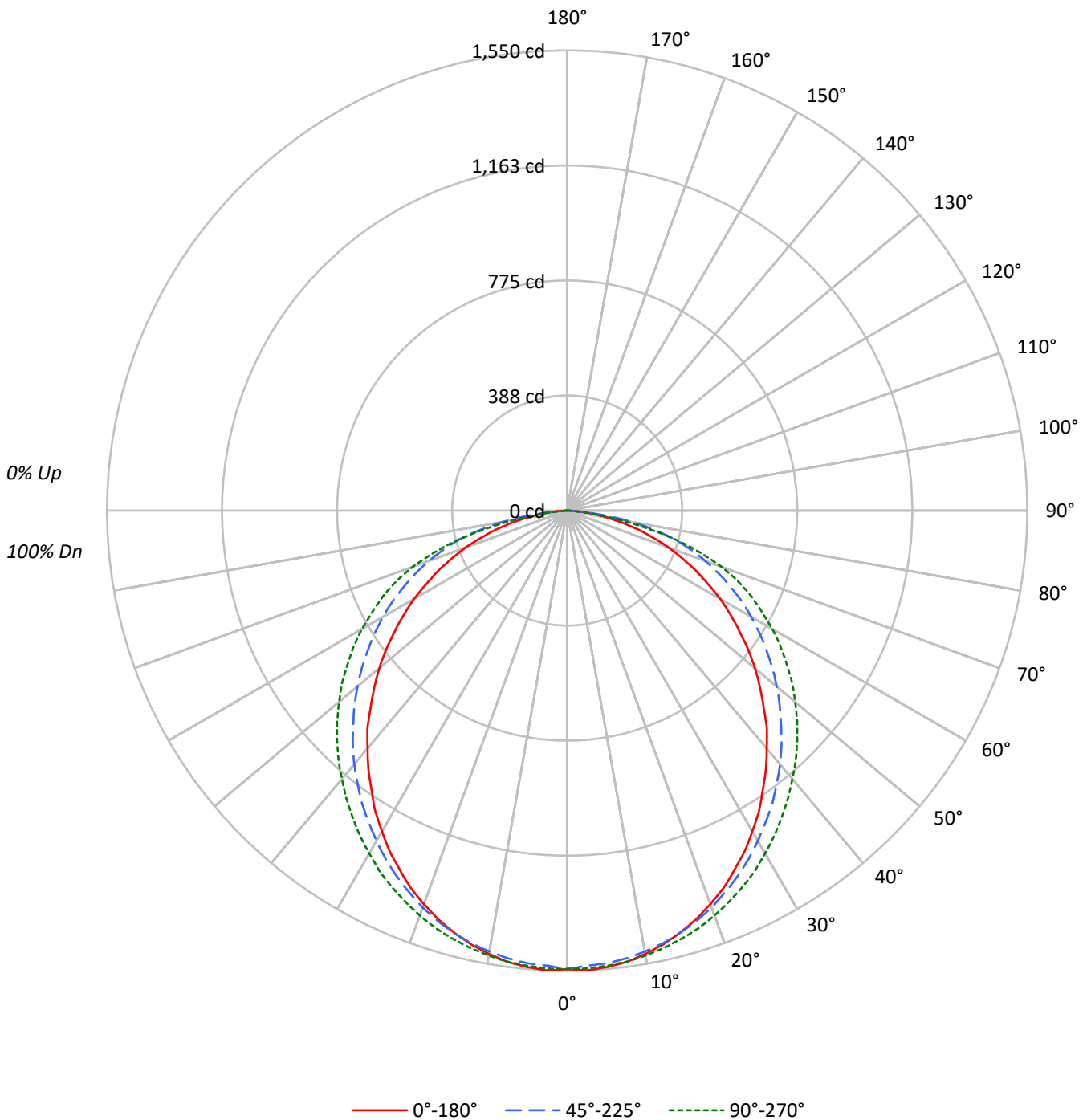
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4156	4156	4156
5°	4169	4134	4158
10°	4144	4122	4160
15°	4099	4102	4158
20°	4039	4074	4156
25°	3962	4034	4152
30°	3876	3991	4144
35°	3773	3957	4141
40°	3673	3919	4147
45°	3561	3876	4169
50°	3457	3858	4197
55°	3325	3846	4235
60°	3207	3852	4293
65°	3042	3864	4360
70°	2855	3893	4357
75°	2588	3929	3939
80°	2122	3392	2803
85°	1575	1606	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.1	3.3
10°-20°	417.5	9.3
20°-30°	628.9	14.0
30°-40°	754.7	16.8
40°-50°	786.6	17.5
50°-60°	728.2	16.2
60°-70°	588.3	13.1
70°-80°	358.7	8.0
80°-90°	74.1	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°	1192.5	26.6
0°-40°	1947.1	43.4
0°-60°	3461.9	77.2
0°-90°	4483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1543	1539	1530	1541	1539	146
15°	1471	1472	1472	1492	1492	415
25°	1334	1342	1358	1392	1398	615
35°	1149	1167	1204	1248	1260	720
45°	936	964	1019	1076	1096	723
55°	709	746	820	884	903	635
65°	478	525	607	668	685	472
75°	249	304	378	384	379	261
85°	51	76	52	29	21	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1544.4	1544.4	1544.4	1544.4	1544.4
2.5°	1550.4	1545.4	1534.4	1545.4	1543.4
5°	1543.4	1539.4	1530.4	1541.4	1539.4
7.5°	1533.4	1529.4	1521.4	1534.4	1532.4
10°	1516.4	1514.4	1508.4	1523.4	1522.4
12.5°	1496.4	1495.4	1492.4	1509.4	1508.4
15°	1471.4	1472.4	1472.4	1492.4	1492.4
17.5°	1443.4	1445.4	1449.4	1471.4	1474.4
20°	1410.5	1414.5	1422.5	1447.4	1451.4
22.5°	1376.5	1379.5	1391.5	1421.5	1425.5
25°	1334.5	1342.5	1358.5	1392.5	1398.5
27.5°	1294.5	1301.5	1323.5	1358.5	1368.5
30°	1247.5	1258.5	1284.5	1322.5	1333.5
32.5°	1202.5	1214.5	1244.5	1288.5	1298.5
35°	1148.6	1166.6	1204.5	1248.5	1260.5
37.5°	1099.6	1116.6	1159.6	1207.5	1221.5
40°	1045.6	1066.6	1115.6	1166.6	1180.5
42.5°	995.6	1015.6	1068.6	1120.6	1139.6
45°	935.6	963.6	1018.6	1075.6	1095.6
47.5°	880.7	908.7	971.6	1032.6	1050.6
50°	825.7	855.7	921.6	984.6	1002.6
52.5°	768.7	800.7	871.7	934.6	955.6
55°	708.7	745.7	819.7	883.7	902.7
57.5°	651.8	689.7	768.7	833.7	852.7
60°	595.8	634.8	715.7	777.7	797.7
62.5°	533.8	579.8	663.7	724.7	739.7
65°	477.8	524.8	606.8	667.7	684.7
67.5°	418.8	469.8	551.8	607.8	623.8
70°	362.9	415.8	494.8	546.8	553.8
72.5°	302.9	356.9	436.8	469.8	469.8
75°	248.9	303.9	377.9	383.9	378.9
77.5°	189.9	250.9	298.9	286.9	274.9
80°	136.9	196.9	218.9	196.9	180.9
82.5°	92.0	142.9	131.9	105.0	93.0
85°	51.0	76.0	52.0	29.0	21.0
87.5°	19.0	17.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)