

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: P275663

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275663
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-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4244.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

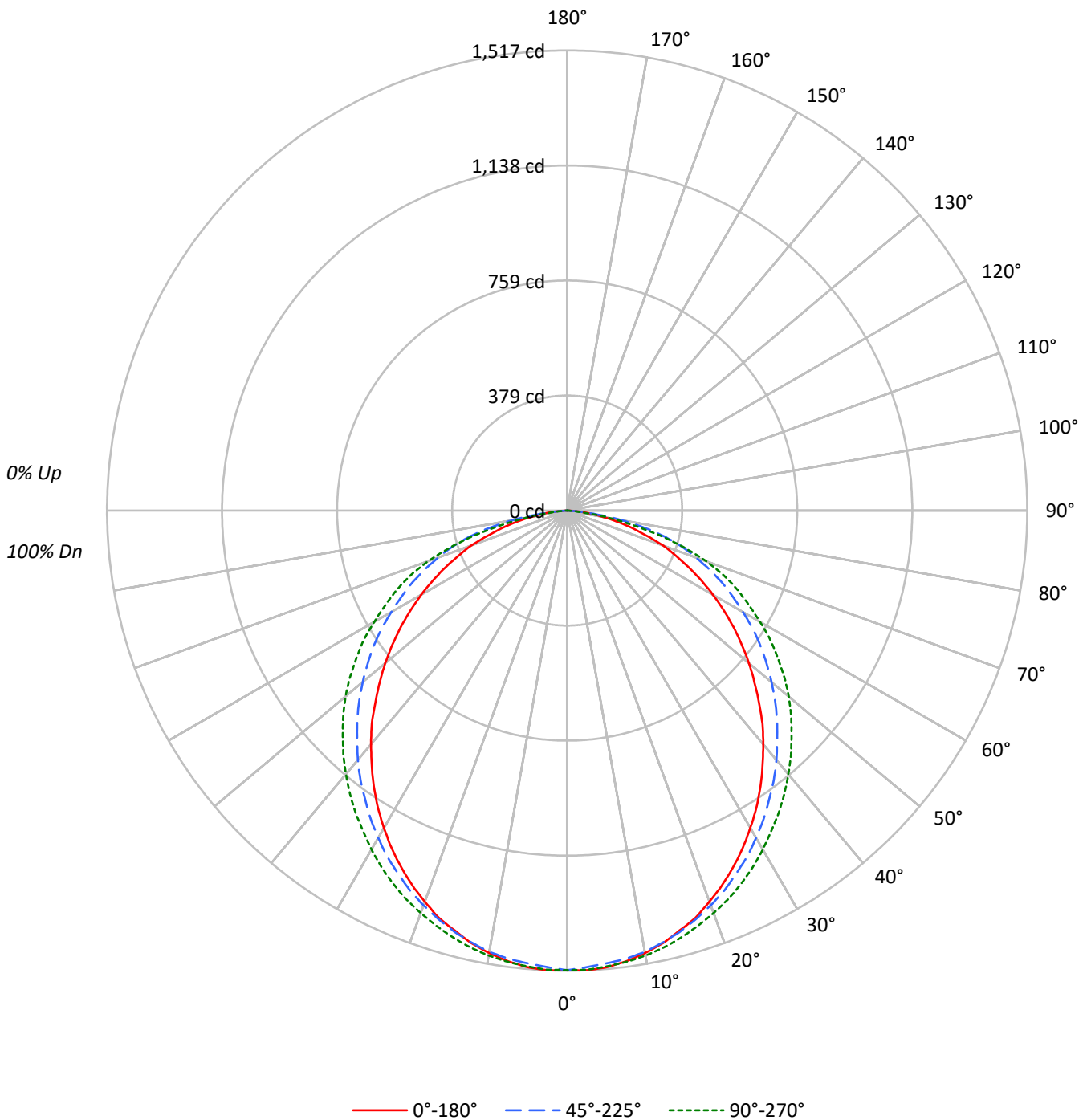
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4077	4077	4077
5°	4081	4047	4075
10°	4048	4036	4071
15°	3992	4004	4057
20°	3929	3965	4043
25°	3849	3917	4030
30°	3753	3871	4008
35°	3650	3816	3995
40°	3533	3770	3984
45°	3403	3724	3980
50°	3277	3682	3990
55°	3139	3653	3978
60°	2990	3601	3953
65°	2814	3591	3952
70°	2649	3559	3841
75°	2297	3479	3281
80°	1858	2805	2185
85°	1235	976	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.1	3.4
10°-20°	407.1	9.6
20°-30°	610.7	14.4
30°-40°	728.5	17.2
40°-50°	753.1	17.7
50°-60°	687.6	16.2
60°-70°	541.1	12.7
70°-80°	315.0	7.4
80°-90°	58.0	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°	1160.8	27.4
0°-40°	1889.3	44.5
0°-60°	3329.9	78.5
0°-90°	4244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1511	1507	1498	1511	1509	143
15°	1433	1435	1437	1456	1456	404
25°	1296	1302	1319	1351	1357	597
35°	1111	1126	1162	1206	1216	694
45°	894	924	978	1033	1046	691
55°	669	705	779	835	848	598
65°	442	488	564	608	621	439
75°	221	274	335	328	316	235
85°	40	57	32	25	21	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.0	1515.0	1515.0	1515.0	1515.0
2.5°	1517.1	1512.9	1506.6	1517.1	1515.0
5°	1510.8	1506.6	1498.2	1510.8	1508.7
7.5°	1498.2	1494.0	1489.8	1502.4	1500.3
10°	1481.4	1479.3	1477.2	1491.9	1489.8
12.5°	1460.3	1460.3	1458.2	1475.1	1475.1
15°	1433.0	1435.1	1437.2	1456.1	1456.1
17.5°	1407.7	1405.6	1411.9	1433.0	1435.1
20°	1372.0	1376.2	1384.6	1409.8	1411.9
22.5°	1336.2	1340.4	1355.1	1380.4	1386.7
25°	1296.2	1302.5	1319.3	1350.9	1357.2
27.5°	1254.1	1262.5	1285.7	1319.3	1325.7
30°	1207.8	1220.4	1245.7	1283.6	1289.9
32.5°	1161.5	1174.2	1205.7	1243.6	1252.0
35°	1111.0	1125.8	1161.5	1205.7	1216.2
37.5°	1058.4	1077.4	1119.4	1163.6	1176.3
40°	1005.8	1026.9	1073.2	1119.4	1134.2
42.5°	953.2	974.3	1024.8	1077.4	1092.1
45°	894.3	923.8	978.5	1033.2	1045.8
47.5°	837.5	869.0	930.1	984.8	1001.6
50°	782.8	814.3	879.6	936.4	953.2
52.5°	726.0	759.6	829.1	888.0	902.7
55°	669.1	704.9	778.6	835.4	848.0
57.5°	612.3	650.2	726.0	780.7	795.4
60°	555.5	595.5	669.1	723.9	734.4
62.5°	498.7	540.8	616.5	664.9	675.5
65°	441.9	488.2	563.9	608.1	620.7
67.5°	387.2	433.5	507.1	549.2	559.7
70°	336.7	378.8	452.4	484.0	488.2
72.5°	273.5	326.2	397.7	414.5	404.0
75°	220.9	273.5	334.6	328.3	315.6
77.5°	168.3	220.9	260.9	239.9	223.0
80°	119.9	172.5	181.0	149.4	141.0
82.5°	77.9	119.9	101.0	77.9	63.1
85°	40.0	56.8	31.6	25.3	21.0
87.5°	12.6	8.4	4.2	4.2	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)