

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: P258809

Luminaire Tested: **14CZ-LD5-44-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4082.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

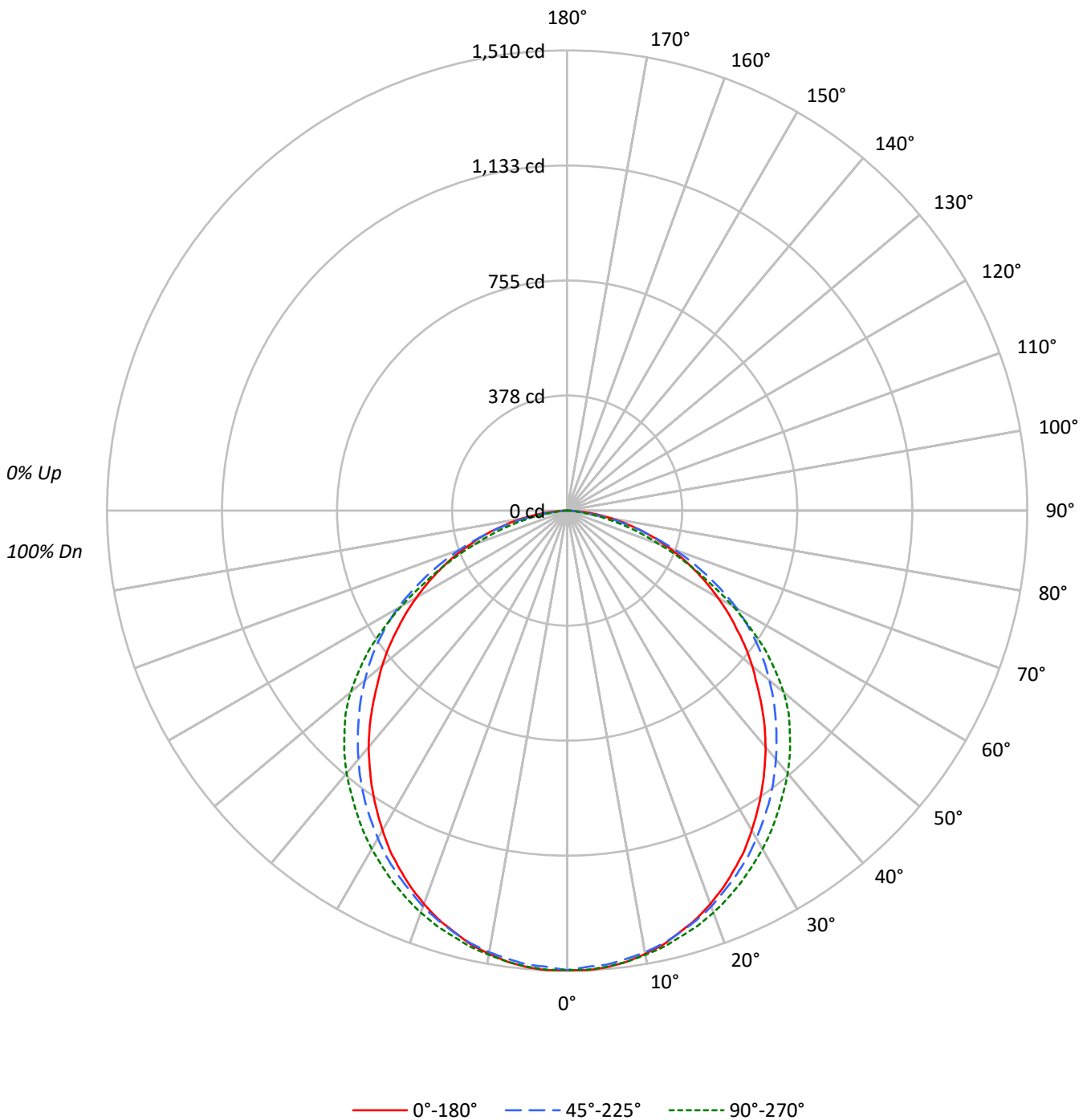
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4058	4058	4058
5°	4064	4039	4058
10°	4036	4021	4046
15°	3988	3993	4028
20°	3933	3959	4021
25°	3856	3910	4002
30°	3764	3860	3984
35°	3663	3806	3961
40°	3559	3744	3955
45°	3433	3683	3932
50°	3320	3625	3884
55°	3192	3567	3712
60°	3074	3465	3387
65°	2942	3243	2977
70°	2777	2948	2519
75°	2591	2554	2080
80°	2283	1973	1522
85°	1797	954	843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	3.5
10°-20°	405.9	9.9
20°-30°	609.2	14.9
30°-40°	726.2	17.8
40°-50°	748.1	18.3
50°-60°	666.7	16.3
60°-70°	480.4	11.8
70°-80°	251.2	6.2
80°-90°	51.9	1.3
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°	1157.6	28.4
0°-40°	1883.8	46.1
0°-60°	3298.5	80.8
0°-90°	4082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1504	1501	1495	1504	1502	143
15°	1432	1433	1433	1448	1446	404
25°	1299	1306	1317	1342	1348	598
35°	1115	1130	1159	1197	1206	697
45°	902	922	968	1022	1033	696
55°	680	702	760	795	791	610
65°	462	478	509	486	468	458
75°	249	262	246	213	200	264
85°	58	51	31	27	27	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.9	1507.9	1507.9	1507.9	1507.9
2.5°	1509.7	1506.1	1498.8	1507.9	1507.9
5°	1504.3	1500.6	1495.2	1504.3	1502.4
7.5°	1493.3	1489.7	1484.2	1495.2	1493.3
10°	1477.0	1475.2	1471.5	1482.4	1480.6
12.5°	1458.8	1457.0	1455.1	1466.1	1466.1
15°	1431.5	1433.3	1433.3	1447.9	1446.0
17.5°	1406.0	1407.9	1409.7	1427.9	1427.9
20°	1373.3	1375.1	1382.4	1402.4	1404.2
22.5°	1338.7	1340.6	1349.6	1373.3	1376.9
25°	1298.7	1306.0	1316.9	1342.4	1347.8
27.5°	1258.7	1264.2	1282.3	1311.4	1315.1
30°	1211.4	1222.3	1242.3	1275.1	1282.3
32.5°	1164.1	1176.8	1200.5	1236.9	1246.0
35°	1115.0	1129.6	1158.7	1196.9	1205.9
37.5°	1064.1	1076.8	1113.2	1153.2	1165.9
40°	1013.1	1025.9	1065.9	1111.4	1125.9
42.5°	958.6	976.8	1016.8	1067.7	1082.3
45°	902.2	922.2	967.7	1022.2	1033.2
47.5°	844.0	865.8	918.6	973.1	985.9
50°	793.1	813.1	865.8	918.6	927.7
52.5°	738.5	756.7	814.9	858.5	860.4
55°	680.3	702.1	760.3	794.9	791.2
57.5°	627.5	645.7	702.1	720.3	709.4
60°	571.1	587.5	643.9	645.7	629.3
62.5°	516.6	532.9	576.6	563.9	543.9
65°	462.0	478.4	509.3	485.7	467.5
67.5°	409.3	423.8	442.0	411.1	392.9
70°	352.9	372.9	374.7	338.3	320.1
72.5°	303.8	314.7	311.0	276.5	260.1
75°	249.2	261.9	245.6	212.8	200.1
77.5°	198.3	207.4	185.5	154.6	145.5
80°	147.3	152.8	127.3	103.7	98.2
82.5°	100.0	100.0	72.8	56.4	50.9
85°	58.2	50.9	30.9	27.3	27.3
87.5°	20.0	12.7	12.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)