

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: P275612

Luminaire Tested: **14CZ2-44-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275612
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3693.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

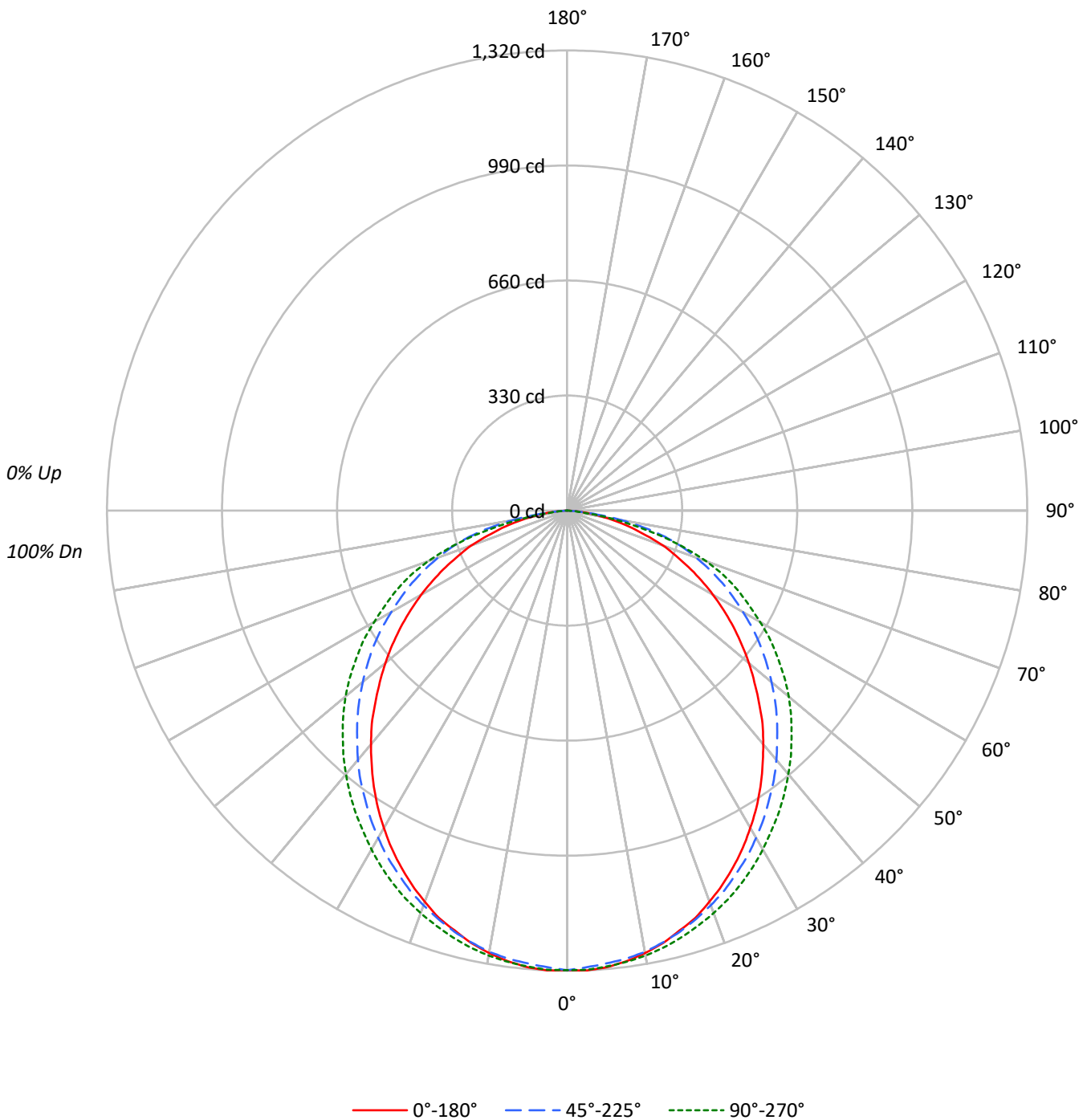
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3548	3548	3548
5°	3551	3522	3546
10°	3522	3512	3542
15°	3474	3484	3530
20°	3419	3450	3518
25°	3349	3409	3507
30°	3266	3368	3488
35°	3176	3320	3477
40°	3074	3280	3467
45°	2962	3240	3463
50°	2851	3204	3473
55°	2732	3179	3462
60°	2602	3134	3439
65°	2448	3124	3440
70°	2305	3098	3342
75°	1999	3027	2856
80°	1618	2441	1901
85°	1074	849	565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	3.4
10°-20°	354.2	9.6
20°-30°	531.4	14.4
30°-40°	633.9	17.2
40°-50°	655.3	17.7
50°-60°	598.3	16.2
60°-70°	470.8	12.7
70°-80°	274.1	7.4
80°-90°	50.5	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°	1010.1	27.4
0°-40°	1644.0	44.5
0°-60°	2897.6	78.5
0°-90°	3693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1315	1311	1304	1315	1313	125
15°	1247	1249	1251	1267	1267	352
25°	1128	1133	1148	1176	1181	519
35°	967	980	1011	1049	1058	604
45°	778	804	851	899	910	601
55°	582	613	678	727	738	521
65°	384	425	491	529	540	382
75°	192	238	291	286	275	204
85°	35	49	28	22	18	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.3	1318.3	1318.3	1318.3	1318.3
2.5°	1320.2	1316.5	1311.0	1320.2	1318.3
5°	1314.7	1311.0	1303.7	1314.7	1312.8
7.5°	1303.7	1300.0	1296.4	1307.4	1305.5
10°	1289.0	1287.2	1285.4	1298.2	1296.4
12.5°	1270.7	1270.7	1268.9	1283.6	1283.6
15°	1246.9	1248.8	1250.6	1267.1	1267.1
17.5°	1225.0	1223.1	1228.6	1246.9	1248.8
20°	1193.8	1197.5	1204.8	1226.8	1228.6
22.5°	1162.7	1166.4	1179.2	1201.2	1206.6
25°	1127.9	1133.4	1148.1	1175.5	1181.0
27.5°	1091.3	1098.6	1118.8	1148.1	1153.5
30°	1051.0	1062.0	1084.0	1116.9	1122.4
32.5°	1010.7	1021.7	1049.2	1082.1	1089.5
35°	966.8	979.6	1010.7	1049.2	1058.3
37.5°	921.0	937.5	974.1	1012.6	1023.5
40°	875.2	893.5	933.8	974.1	986.9
42.5°	829.5	847.8	891.7	937.5	950.3
45°	778.2	803.8	851.4	899.0	910.0
47.5°	728.7	756.2	809.3	856.9	871.6
50°	681.1	708.6	765.4	814.8	829.5
52.5°	631.7	661.0	721.4	772.7	785.5
55°	582.3	613.4	677.5	726.9	737.9
57.5°	532.8	565.8	631.7	679.3	692.1
60°	483.4	518.2	582.3	629.9	639.0
62.5°	434.0	470.6	536.5	578.6	587.8
65°	384.5	424.8	490.7	529.2	540.2
67.5°	336.9	377.2	441.3	477.9	487.1
70°	293.0	329.6	393.7	421.1	424.8
72.5°	238.0	283.8	346.1	360.7	351.6
75°	192.3	238.0	291.1	285.6	274.7
77.5°	146.5	192.3	227.0	208.7	194.1
80°	104.4	150.1	157.5	130.0	122.7
82.5°	67.7	104.4	87.9	67.7	54.9
85°	34.8	49.4	27.5	22.0	18.3
87.5°	11.0	7.3	3.7	3.7	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)