

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: P275555

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275555
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-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

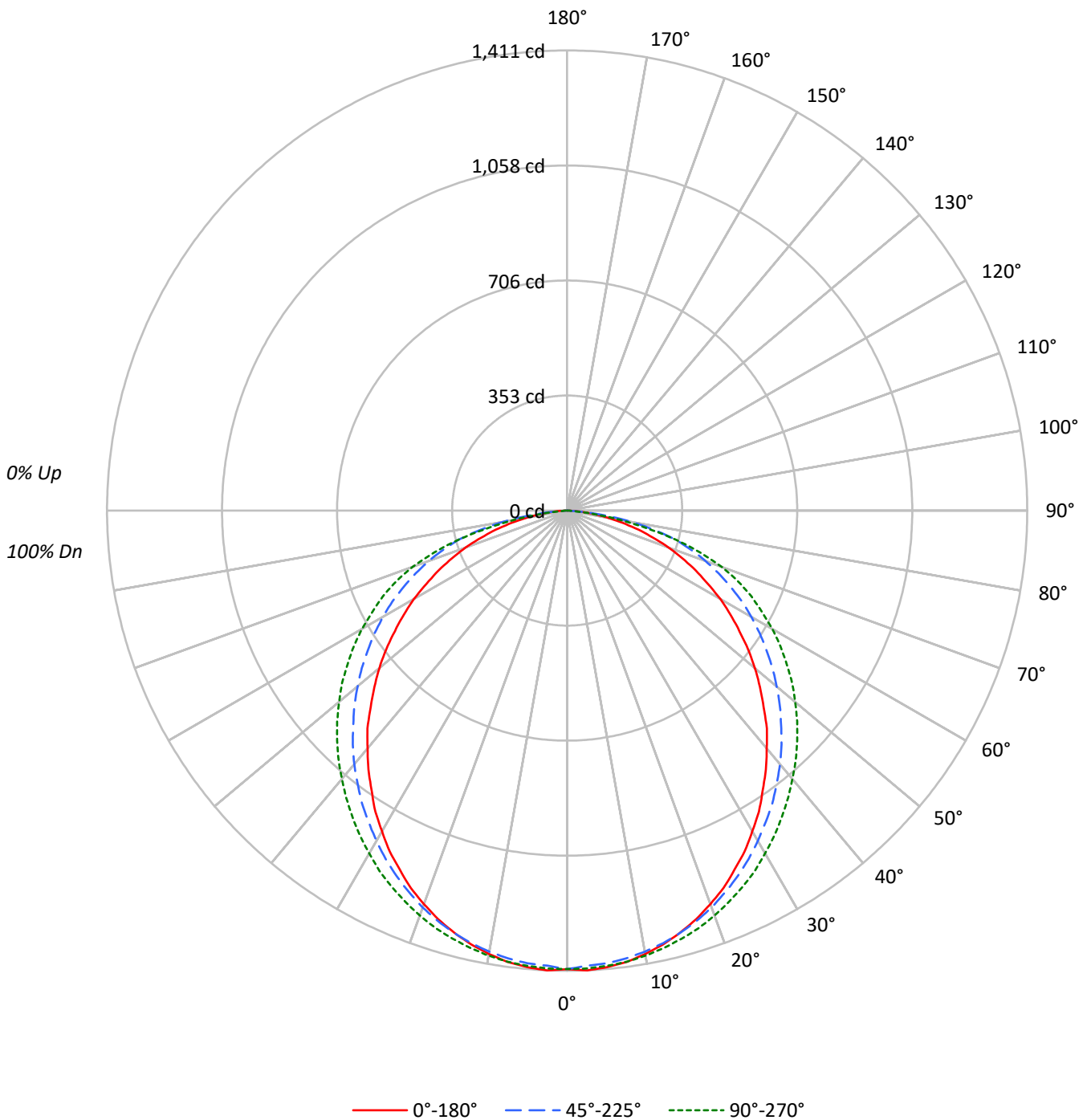
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3783	3783	3783
5°	3795	3763	3786
10°	3772	3752	3787
15°	3732	3734	3785
20°	3677	3708	3784
25°	3607	3672	3780
30°	3529	3633	3772
35°	3435	3602	3770
40°	3344	3567	3775
45°	3241	3529	3795
50°	3147	3512	3821
55°	3027	3501	3855
60°	2919	3506	3908
65°	2770	3517	3969
70°	2599	3544	3966
75°	2356	3577	3586
80°	1932	3088	2552
85°	1433	1460	590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.3
10°-20°	380.0	9.3
20°-30°	572.5	14.0
30°-40°	687.0	16.8
40°-50°	716.0	17.5
50°-60°	662.9	16.2
60°-70°	535.6	13.1
70°-80°	326.6	8.0
80°-90°	67.4	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°	1085.6	26.6
0°-40°	1772.5	43.4
0°-60°	3151.4	77.2
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1405	1401	1393	1403	1401	133
15°	1340	1340	1340	1359	1359	378
25°	1215	1222	1237	1268	1273	560
35°	1046	1062	1096	1137	1148	655
45°	852	877	927	979	997	658
55°	645	679	746	804	822	578
65°	435	478	552	608	623	430
75°	227	277	344	349	345	238
85°	46	69	47	26	19	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.9	1405.9	1405.9	1405.9	1405.9
2.5°	1411.4	1406.8	1396.8	1406.8	1405.0
5°	1405.0	1401.4	1393.2	1403.2	1401.4
7.5°	1395.9	1392.3	1385.0	1396.8	1395.0
10°	1380.4	1378.6	1373.2	1386.8	1385.9
12.5°	1362.2	1361.3	1358.6	1374.1	1373.2
15°	1339.5	1340.4	1340.4	1358.6	1358.6
17.5°	1314.0	1315.8	1319.5	1339.5	1342.2
20°	1284.0	1287.6	1294.9	1317.6	1321.3
22.5°	1253.0	1255.8	1266.7	1294.0	1297.6
25°	1214.8	1222.1	1236.7	1267.6	1273.1
27.5°	1178.4	1184.8	1204.8	1236.7	1245.8
30°	1135.7	1145.7	1169.3	1203.9	1213.9
32.5°	1094.7	1105.6	1132.9	1173.0	1182.1
35°	1045.6	1061.9	1096.5	1136.6	1147.5
37.5°	1001.0	1016.4	1055.6	1099.3	1112.0
40°	951.8	970.9	1015.5	1061.9	1074.7
42.5°	906.3	924.5	972.8	1020.1	1037.4
45°	851.7	877.2	927.3	979.1	997.3
47.5°	801.7	827.2	884.5	940.0	956.4
50°	751.6	778.9	839.0	896.3	912.7
52.5°	699.8	728.9	793.5	850.8	869.9
55°	645.2	678.8	746.2	804.4	821.7
57.5°	593.3	627.9	699.8	758.9	776.2
60°	542.3	577.8	651.5	708.0	726.2
62.5°	485.9	527.8	604.2	659.7	673.4
65°	435.0	477.7	552.4	607.9	623.3
67.5°	381.3	427.7	502.3	553.3	567.8
70°	330.3	378.6	450.4	497.8	504.1
72.5°	275.7	324.9	397.7	427.7	427.7
75°	226.6	276.6	344.0	349.4	344.9
77.5°	172.9	228.4	272.1	261.2	250.2
80°	124.7	179.3	199.3	179.3	164.7
82.5°	83.7	130.1	120.1	95.5	84.6
85°	46.4	69.2	47.3	26.4	19.1
87.5°	17.3	15.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)